# CHRIST

### THE

# KING

KNOWLEDGE

ORGANISERS

**#CTKCARES** 

Year 7
Term 3





## SELF-QUIZZING

## Why should I self-quiz?

effectively limitless. easily become overwhelmed. Your long-term memory, on the other hand, is memory. Everybody's working-memory is limited, and therefore it can very Your mind is split into two parts: the working-memory and the long-term

stop your working memory becoming overloaded. in long term memory. These facts and processes can then be retrieved to You can support your working memory by storing key facts and processes

to help you master your subject and be successful in lessons knowledge organiser has the key information that needs to be memorised This booklet contains knowledge organisers for all of your subjects. Each

# How often should I self-quiz?

material in your knowledge organiser. work with it more than once! There are many different ways to learn the order to learn the information in your knowledge organiser, you will need to Research shows that regular testing improves knowledge retention; in

# How to use my Knowledge Organiser

any missing information in your green pen. knowledge organiser to see if you are right; correct any mistakes and fill in organiser, and try to write out as much as you can from memory. Check the Cover – Write – Check: Cover up one section of the knowledge

were some parts you struggled with. include content from the previous week's homework – especially if there Repeat this process at least twice to fill your page. You could also

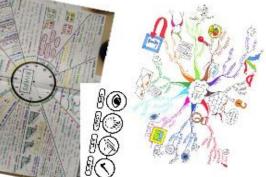
- the knowledge organiser. Check accuracy, correct in green pen and then 2. Draw a mind map, jotting down everything that you can remember from
- in each section. Cover the clock and recite the information aloud. clock face into 10 minute sections. Add notes from the knowledge organiser 3. Revision clock - draw a clock and add the topic in the middle. Break the
- Alternatively, a keyword on one side and a definition o double sided with a question on one side and the answer on the other. Use your knowledge organisers to create flashcards. These could be

### PACT

Did you know

students remember 50% more when they test themselves after learning something







### HOMEWORK SCHEDULE

# You should complete at least one hour of Home Learning per school day.

### This will consist of:

- Knowledge Organiser and Online Learning as directed by your teachers
- Knowledge Organiser timetable below. · If you have no tasks set, carry out Knowledge Organiser activities as per the
- Two periods of 20 minutes reading each week

### Week 1

	Subject 3	Subject 2	Subject 1	20 Minutes Per Subject
	Music	RE	<b>E</b> nglish	Monday
	History	PE	<b>S</b> cience	Tuesday
⊐	Technology/	RE	Maths (MyMaths)	Tuesday Wednesday Thursday
	MFL	Science	Maths	Thursday
	Art	Geography	English	Friday

### Week 2

(Practical)	Subject 3 Music	Subject 2 RE	Subject 1 Science	Subject   Wonday
	History	Maths	English	luesday
Π	History Technology/	RE	English	Tuesday Wednesday Thursday Friday
	MFL	Drama	Maths (MyMaths)	Inursday
(Practical)	Art	Geography	Science	Friday

Read **20 minutes** a day and you'll read 1,800,000 words per year.

READING FOR 6 MINUTES A DAY REDUCES STRESS BY 68%.

Children learn
4,000 to 12,000
words per year
through reading.



### WHATARE THE HOMEWORK **EXPECTATIONS?**

Each homework must meet the following 5 requirements:

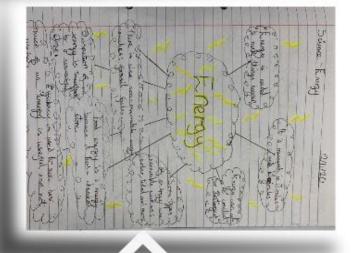
- 1. Write the complete title and date in full eg. Tuesday 9th September 2017 on each page, underlined
- 2. You should include a minimum of words to summarise the topic. Do not copy the words from the
- 3. Make full use of the page for each topic by scaling your notes & images appropriately to use of all the space
- You must include diagrams, sketches or cartoon doodles to visually represent the topic, try to use humour.
- Highlight key words and phrases, using underline, highlighter pens. Explain technical terms

# HOW SHOULD I PRESENT MY WORK?

ruler and you should present your work as neatly as you are able to. work: dates and titles (which should be the name of the subject) need to be underlined with a Please remember that the same rules apply to the presentation of your homework as apply for your class

examples of how to set out your work: If you are self-quizzing correctly, there should be evidence of green pen on your page. Here are some





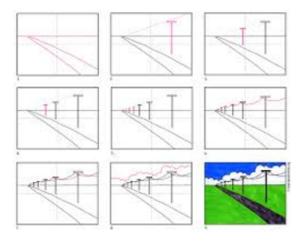
QUICK TIP

Don't forget

Always record the date, topic and page number in your Home Learning Book!

A **Cityscape** in Art can be a type of **landscape** which can include buildings and streets often found in **'urban'** towns and cities. Cityscape Art can take the form of drawings, paintings and photographs

Key words	
1.Perspective	a technique which attempts to create the illusion <u>f</u> depth and 3 dimensions in a drawing or painting.
2 Horizon line	used to show where the land disappears in the distance
3 Vanishing point	used when drawing in perspective to create a 3D effect
4 Background	usually at the top and back of the painting or drawing and appears to be further away.
5 Foreground	can be seen at the front or bottom of a landscape which appears to be closer.
6 Composition	how you arrange and place the different parts of a piece of artwork
7 Realism	
8 Guidelines	light pencil lines which sketch out the basic image
9 Narrative	Can be used in art to help describe



Step by step guide of drawing a street scene using one point perspective

### Order of drawing

- Horizon line
- 2. Vanishing point
- 3. Lines which meet the vanishing point
- Vertical lines
- Add details



Hannah Sawtell — (born 1971) Nottingham based artist.

She creates cityscape illustrations have a **Pop Art** feel and depict everyday scenes from local areas in Nottingham.

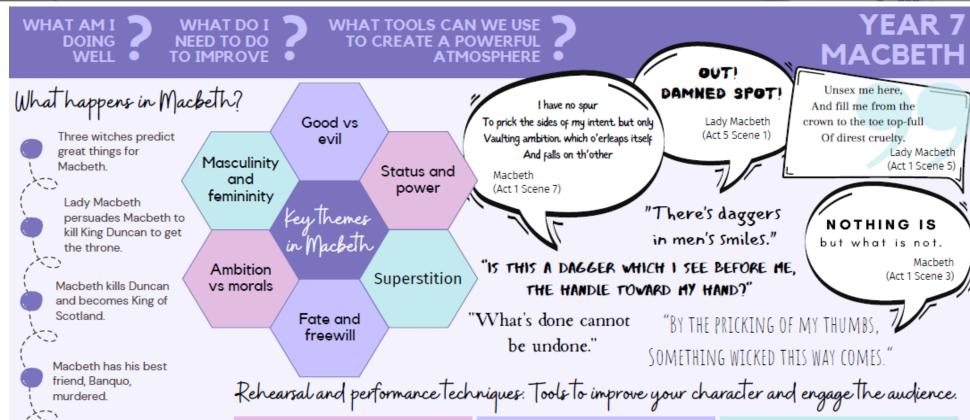




L.S. Lowry- (1887- 1976) born Salford, Manchester.

Lowry painted mostly industrial scenes of the North West of England. He developed a unique realist style and is most famous for his 'match stick' looking





### MONOLOGUE

Macbeth begins to think that he's invincible while

Lady Macbeth can't live with

commit and takes her own life.

also losing his grip on

the crimes she's helped

There is a battle and

Macduff decapitates

Macbeth.

reality.

An extended speech by one character; sometimes to another character, sometimes to the audience, sometimes to themselves.

### IMPROVISATION

Work that is created spontaneously or without rehearsal. Actors must listen to each other and respond to what is being said without a script.

### CONSCIENCE ALLEY

All actors except one line up and share the thoughts of a particular character out loud in turn, as the actor playing that character walks down the 'alley'.

### CROSSCUTTING

Showing two scenes side by side on stage and cutting from one to the other; often to show a contrast or two locations.

### ATMOSPHERE

The overall feeling or mood created by the actors in a scene. The atmosphere should affect the way to audience experience the scene or play.

### HOT SEATING

One actor sits in the 'hot seat'. Everyone in the ensemble asks the actor questions about their character's thoughts and feelings which they answer in role (as their character).

### SOUNDSCAPE

An ensemble (group of actors) use their voices and bodies to create the sounds of a real or imaginary location.

### CHORAL MOVEMENT

Using movement as a group to emphasise the words being spoken and add to the overall atmosphere being created.

### ROLE ON THE WALL

A rehearsal technique involving writing down everything you know about your character from the script. This helps to identify any gaps in your knowledge of the character.

### WHAT AM I DOING WELL

### WHAT DO I **NEED TO DO** TO IMPROVE

**HOW ARE THE AUDIENCE** IMPACTED BY THE ACTING AND DESIGN CHOICES

### YEAR 7 **PETER PAN**

### **CHARACTERISATION**

Using a range of physical and vocal skills to show a character who is different to you.

### TONE OF VOICE

The emotion behind what your character says e.g. an angry tone, a surprised tone.

### **PITCH**

How high or low your character's voice is.

### **ACCENT**

The way a person speaks- can show where they are from and sometimes class or status.

### PACE

The speed at which your character speaks or moves.

### **GESTURES**

Using your hands (or sometimes eyes and head) to communicate meaning with other characters and the audience e.g. pointing/winking.

### **BODY LANGUAGE**

Showing emotion through the way you sit, stand or position yourself.

### **FACIAL EXPRESSION**

Showing emotion through your face- eyes, mouth, eyebrows...

effect moment

scene stage skills script

words we suggests use to talk story

about character movement successful

audience

director performance vocal

### **Writing structure**

WHAT? Explain which element was successful.

Explain exactly **how** this moment was created.

Why was it successful? What impact did it have on the audience?

- One moment that stood out for me was...
- This helped to communicate to the audience that...
- This effect was created by...
- This could have been communicated more effectively by...
- The actor/designer used... successfully to create...

### **DESIGNER**

The person in charge of making decisions about a particular element of the production.

### SET

P

S

0

S

The scenery and furniture on the stage throughout the production.

### **PROPS**

The items held or used by actors on stage to make the action more realistic.

### COSTUME

What the actors wear when performing. Costume can denote character, historical era and the style of the productio.n

### MUSIC AND SOUND

Live or recorded sound used to enhance a production and create a certain atmosphere.

### LIGHTING

Lighting is used to make sure the audience can see the actors and set, focus their attention on what is important and to create a mood.

### REVOLVE

A circular section of the stage which turns separately to the rest.

### **LEVELS**

Used to create different locations or to show status on stage.

### COLOUR/FIT/STYLE

Can suggest a character's personality, occupation or status.

WHAT AM I DOING WELL

WHAT DO I NEED TO DO TO IMPROVE

WHAT TOOLS DO I HAVE TO ENGAGE THE AUDIENCE

?

YEAR 7
WHAT'S BEHIND THE DOOR?

### **DEVISING TECHNIQUES:**

Different tools used to respond to a stimulus...

### Narration

Adding a spoken commentary about the action on stage.

### Slow motion

Slowly exaggerating your actions to highlight a key moment.

### Unison

Movement or speech performed at exactly the same time by more than one person.

### Transition

A smooth, clean movement creating fluency from one scene to the next.

### Mime

Acting in complete silence, using on physical skills.



DON'T FORGET TO SET TARGETS FOR EACH REHEARSAL PERIOD!

To devise means to create a performance from scratch, sometimes using

a stimulus.

The atmosphere is the overall mood or feeling created for the audience.

Music can be added to build tension or create an atmosphere.

Tension is a growing sense of expectation which engages the audience.

The climax is the highest point of tension in the storyline.

THOUGHT-TRACKING-One actor shares their character's thoughts and feelings with the audience while the other actors hold a freezeframe.

ROLE ON THE WALL-Writing down a thorough description of your character's outside appearance and inside thoughts and feelings.

### VOCAL KEYWORDS PACE

The speed at which an actor delivers their lines.

### PAUSE

Used to emphasise a moment between characters; silence can be used to create atmosphere.

### PITCH

How low or high an actor's voice is when delivering their lines.

### CLARITY

Delivering dialogue in a clear voice so the audience can hear.

### **PROJECTION**

Using your voice to speak loudly and clearly.

### TONE

The emotion behind what your character says e.g. an angry tone, a surprised tone.

### PHYSICAL KEYWORDS BODY LANGUAGE

Showing emotion through the way you sit, stand or position yourself.

### **GESTURES**

Using your hands (or sometimes eyes and head) to communicate with other characters and the audience

### FACIAL EXPRESSION

Showing emotion through your face- eyes, mouth, eyebrows.

### INTERACTION

How characters react to each other to convey their relationship.

### SPACE

The way actors move around the stage space to show their relationship with other characters.

### **LEVELS**

Used to show the 'power' difference between characters.

A STIMULUS IS A STARTING POINT FOR IDEAS

A BRAINSTORM IS A SHARING OF INITIAL IDEAS WITH YOUR GROUP

### CHRIST THE KING - KNOWLEDGE ORGANISERS

### Theatre in the Elizabethan/Jacobean period

At the beginning of the 16th century many plays were based upon religious themes. These were called 'morality plays' and showed good and bad conduct. Others, called 'miracle plays' showed scenes from the Bible.

The main exception to this were the plays put on by wandering groups of actors, known as 'strolling players'. The plays put on by these groups were often far from religious and the authorities tried to ban them.

The themes of plays changed during Elizabeth's reign and English playwrights began to write comedies and tragedies. By the end of her reign playwrights such as Marlowe, Johnson and Shakespeare were writing the plays for which they are now famous.

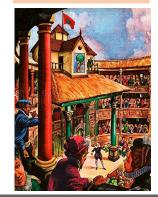
As the watching of plays became more popular, theatres were built instead of using the courtyards of inns. The popularity of stage plays led to the building of the Rose, Swan and Globe Theatres in London between 1587 and 1598.

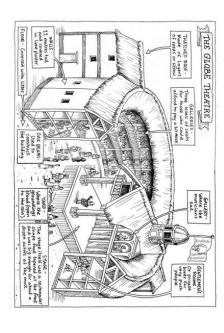
### The main features and popularity of the Elizabethan/Jacobean theatre

- The theatre was open and plays had to be performed in daylight.
- A flag would be flown from the top of the theatre to show a play was going to be performed.
- People sat around the stage in galleries.
- The cheapest place was in front of the stage where ordinary people stood. They were known as 'groundlings'.
- There was very little scenery a character would tell the audience where the scene was set.
- Women's parts were played by boys.
- Long speeches gave actors a chance to change their clothes.
- There was generally plenty of violence in the plays Tudor audiences loved it.
- Many enjoyed going to the theatre as it provided good entertainment, an escape from their everyday lives and the chance to socialise and catch up on the latest news.
- Many nobles attended the theatre and the showing of a new play became a social event.
- Puritans disapproved of the non-religious nature of the plays which could lead to bad habits and behaviour. They believed it kept people from going to church.
- The authorities were unhappy because they believed it encouraged people to miss work and be idle, they also felt that theatres were ideal places for thieves and vagabonds to operate and where plague and other infectious diseases could spread.

Торіс	Macbeth - Detailed Contextual Information		
1) First Performance	Macbeth was first performed in 1606, likely with King James I in the audience. Shakespeare may have wanted to please the King through his play's representation of the dangers of challenging monarchy.		
2) Historical Inspiration	The play's characters were inspired by historical sources. The real Macbeth ruled Scotland in the 11th century after killing King Duncan but many other facts were changed considerably. James I also claimed to believe that he was a descendant of Banquo and Fleance.		
3) Divine Right of Kings	James I promoted the concept of the divine right of kings throughout his reign: the monarch is appointed by God and, therefore, any opposition to him is sacrilegious. In a speech before Parliament James I argued 'Kings are justly called gods.' (1609)		
4) Gunpowder Plot	The Gunpowder Plot in 1605 involved Catholics attempting to blow up Parliament and the royal family. Robert Catesby's involvement shocked King James, who had considered Catesby to be one of his most loyal noblemen. Scholars have speculated that the play's characterisation of Macbeth may have been partly modelled on him.		
5) Supernatural	Belief in the the supernatural was far more prevalent than it is today. King James I wrote a book on the subject - 'Daemonologie' (1596) - in which he called witches 'detestable slaves of the Devill' and confidently asserted that 'such assaultes of Sathan are most certainly practized'.		
6) Gender Roles	Jacobean society was highly patriarchal. Women were typically regarded as emotionally and intellectually weaker than men, needing a husband to look after them. The man was considered to be the head of a marriage and his family.		
7) Religious Belief	In the previous century the state religion had changed between Mary, Queen of Scots and Elizabeth I. Under James I as both King and Head of the Church, the country remained strictly Protestant. The Jacobean public was generally god-fearing, interpreting religious concepts such as heaven and hell literally. James I also commissioned a new English translation of the Bible in 1604 which is still read to this day.		

Year 7 English
Shakespeare's
Context
(in preparation
for the study of
Macbeth)







### Macbeth — Characters

### Main Characters

king and country in battle. After hearing the three weird sisters' prophesy that he will one day rule Scotland, Macbeth commits position as king heinous murder and other tyrannous acts in order secure his Macbeth is a beloved Scottish general who bravely defends his Thane of Glamis, later King of Scotland

original power couple.) She's also a teensy bit worried that her devoted to her husband. (We might think of the pair as the At the play's beginning, Lady Macbeth is a powerful figure: she's charming, attractive, ambitious, and seems to be completely take things into her own hands powerful figure she wants him to be, Lady Macbeth's got to of human kindness" (1.5.1). If her husband's going to be the According to Lady Macbeth, her husband is "too full o' the milk man isn't quite "man enough" to do what it takes to be king. Macbeth's wife and supporter of her husband's quest for power

guest at inverness, character that murdering him seems horrifying. and his kingdom. Duncan is so sympathetic and likable a and he is always full of kindly words. He's also generous when benevolent old man. We never see him out on the battlefield, aspirations to rule the country. In the play, Duncan is a Duncan is the King of Scotland. While spending the night as a ing honors on the soldiers and thanes that protect him he's murdered by Macbeth, who has

capture. In other words, Malcolm's the kind of guy who seems to need rescuing. Malcolm's reaction to news of his father's next King of Scotland. When we first meet Malcolm, he seems Prince of Cumberland, known to be the holding place for the bloodied Captain for saving his life and rescuing him from rather weak – he's standing around praising a brave and Malcolm is elder son of King Duncan and newly appointed as death doesn't recommend him to be king yet, either; it only

Minor Characters

Donalbain — Duncan's younger son Lady Macduff — Macduff's wife fight against Macbeth Lennox and Ross — Noblemen of Scotland that support Malcolm's Macduff's son

Angus — Nobleman of Scotland and supporter against Macbeth Murderers — Macbeth's hired killers Menteith and Caithness servant at Macbeth's castle Noblemen of Scotland in Malcolm's

Banquo's son who is seen as a threat by Macbeth

are sure he is. continue to make the speeches and be pure of heart, which we he has folks like Macduff to help out, so long as Malcolm can Even if Malcolm isn't going to be a tough warrior anytime soon footsteps of his dad: gracious and, for the most part, harmless. damning his enemies, make it seem like he'll follow right in the Malcolm's words at the end, praising and gifting his allies and seems to lack the experience to make him confident or capable shows he's still feeling around for the best course of action. He

creates a nice contrast to our main character fulfilling the prophecy makes the play – how Banquo does not be kings, though he will not be. How Macbeth plays his part in during the same prophecy, Banquo is told that his children will Macbeth when he hears the first prophecy of the weird sisters; often seen in contrast to Macbeth. Banquo is the only one with Banquo is a general in the King's army (same as Macbeth) and is

figure. so it's important that Shakespeare portrays Banquo as a noble Shakespeare wrote Macbeth, traced his lineage back to Banquo James VI of Scotland), the guy who was monarch when It's important to note that King James I of England (a.k.a. King

severed head to Malcolm, the future king his loved ones and then resolves to kill Macbeth in man-to-man After Macbeth murders Macduff's family, Macduff grieves for Macduff is a loyal Scottish nobleman and the Thane of Fife At the play's end, he triumphantly carries Macbeth's

### Weird Sisters (the Witches

speak and act in unison so it's worth considering them King of Scotland. We never see them apart and they often when they confront Macbeth and prophesize that he will be The three weird sisters set the action of the play in motion

Young Siward — Siward — General in the English army fighting with Malcolm Seyton — Macbeth's sleepwalking Doctor and Gentlewoman — Macbeth of what he should fear for the future ecate success in the battle against Macdonwald Soldier in Duncan's military that reports on Macbeth's An Officer in Macbeth's Army Goddess of the Witches Siward's son in the English army with Malcolm Servants that witness Lady

Apparitions — Visions conjured up by the Witches to inform

### CHRIST THE KING - KNOWLEDGE ORGANISERS

### Geography Topic 3: Settlement and Urbanisation

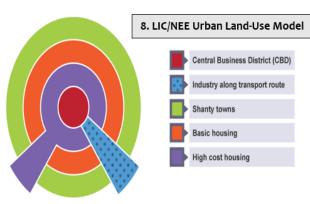
1. Levels of Development		
HIC	High Income Country	
NEE	Newly Emerging Economy	
LIC	Low Income Country	
2. Settlement and Urbanisation key words		
Settlement	Where people live	
Site	The place the settlement is located	
Situation	Where the settlement is in relation to other settlements and surrounding features	
Settlement hierarchy	Order of settlements in a region or country by population OR services	
Population change	Change in the number of people in a specified area over time	
Land-use	The function of the land – what it is used for.	
Terraced Housing	Row of similar houses joined together by their side walls	
Traffic congestion	Slow speeds, longer travel times and queues when traveling in a vehicle.	
Derelict building	Empty building which is no longer used and in a poor state of repair.	
Retail	The selling of goods	
Regeneration	Improving the buildings and landscape to provide benefits for an area	
Urbanisation	The increasing percentage of a population living in urban areas	
Megacity	A city with a population of over 10 million people	
Birth Rate	Number of babies born per 1,000 of population	
Death Rate	Number of deaths per 1,000 of population	

3. Early factors in choosing settlement location		
Flat land		
Raw materials		
Water supply		
Defendable site		
Fertile soil		
Shelter		
Transport links		

4. Settlement Hierarchy



6b. Opportunities in HIC urban areas		
Transport links		
Education opportunities		
Entertainment and leisure	_	
Retail	_	
Close-knit communities	_	



4. Settlement merale	primate day or capital large cities or conurbations	
Increase in the size of settlement, population and	cities	increasing number of settlements
services	large towns	settemens
	small towns	
	villages	
	hamlets	The state of the s
	isolated house or farms	
	A settlement hierocky	

7. Urban Tran	7. Urban Transport Systems		
Integrated	Combining modes of		
Public	transport for ease and		
Transport	efficiency of use		
Congestion	Charging polluting cars for		
Charge	entering an urban area		
Park and Ride	Cars are parked on the outskirts of an urban area and drivers take public transport from there to the CBD		

8. LIC/NEE Urban Land-Use Model		
Shanty towns	Self-built housing on the edge of cities	
Basic housing	c housing Formally constructed housing with services such as water and electricity	
High-cost housing Similar in structure and style to those found in HICs		

9. Causes of urbanisation in LIC/NEE Cities		
Natural Increase Birth rate is higher than death rate		
Rural-urban migration	The movement of people from the countryside to cities	
Push factor	A reason a person has for leaving a place	
Pull factor A reason a person has for moving to a place		

	5. HIC Urban Land-Use Model		
	CBD	Central Business District. The commercial centre of an urban area.	
	Inner City	Mainly terraced housing in grid patterns, originally built near to factories to house workers.	
	Suburbs	Residential area mainly made up of private, semi-detached housing.	
	Rural-Urban Fringe	The edge of a city where it meets the countryside	

10. Challenges in I	IC/NEE Urban Areas		
Healthcare	Lack of access to healthcare facilities and trained doctors, nurses and midwives		
Education	Not enough schools and a shortage of teachers. Wages are low for teachers.		
Water supply	Not all the population have access to running water in an urban area		
Energy supply	Shortages of supply because homes are not properly connected to the energy grid.		
Crime	Lack of education and jobs mean some turn to crime for income.		
Informal economy	Poorly paid jobs with no benefits and no tax is paid to the government from these jobs		
Air pollution	Traffic congestion and pollutants from factories in the air create smog and unsafe air		

### CHRIST THE KING - KNOWLEDGE ORGANISERS Y7 GEOGRAPHY - PHYSICAL LANSCAPES

Geography Topic 5: Physical Landscapes in the UK		4. Landscape pro	cesses	7. Longshore Drift – the zigzag movement of g. Landforms in a glacial valley material along a beach in the direction of wind created by erosion			
		Weathering	Breakdown of rocks in situ	material along a beach in the direction of wind created by erosion  Direction of longshore drift posts			
1. Physical Land	1. Physical Landscapes key words		Wearing away and removal of pieces of rock	swash backwash	/ /	1 /	Hanging valley Hanging waterfall U-haped valley
Landscape	The visible features of an area of land	Transportation	Movement of rocks from an area of erosion to an area of deposition	/  /		1/1/	Control of the Contro
Geology	The study of rock types	Deposition	Dropping of rock particles	prevailing wind			
Landform	Feature created by landscape	5. Features of a	5. Features of a river valley				fruncated spur
0		V-shaped river	Deep river valley shaped like a V		8. Glacial processes key terms		
Coast Sediment	The land along the sea  Small pieces of material (such as	valley River Channel	The groove in the land through which w	rater travels	Plucking	The mov bedrock	ement of glaciers pulls rock from the
Sediment	rock) moved by air and water	Source	Start of a river	vater travers	Abrasion	Scraping	of a glacier over bedrock
Glacier	Slow moving mass of ice or compressed snow	Mouth	End of a river		Freeze-thaw weathering	- '	g temperature of water causes rock to and break
Bedrock	Bedrock Hard, solid rock beneath the top		Area of land drained by a river and its to	ributaries	Moraine	Debris m	nixed with ice which is transported by glaciers
	layer of the ground	Tributary	Small river which joins a larger river	10. Glacial landforms key terms			
2. Layers of the	2. Layers of the landscapes		The point where two rivers meet		Corrie A sheltered, over-deepened hollow with a steep back wall and		
Physical	The physical landscape sculpted by physical processes and geology	Waterfall	A 'step' in the river over which water pl	unges	Come	lip	-ueepened notion with a steep back wall and
(base) layer		Meander A bend in a river			Arete	Sharp mountain r	idge between two corries
Biological			The flat land either side of the channel the river bursts its banks	which floods when	Pyramidal Peak	A sharply pointed more corries	peak caused by the formation of three or
Human laver	Cattlemants communications	6. Coastal landfo	rms		U-Shaped		straight sides and flat bottom – shaped like a
Human layer	Settlements, communications and farming	Beach Sediment deposited by the sea		valley	U.		
		Cliff	Steep, often vertical rock face		Misfit river	River that is too s	
	Rock Cycle  One type of rock changes into another type of rock		Bay Land curves in away from the sea and is surrounded by water on three sides		Truncated spurs	Steep cliffs along	the sides of a U-shaped valley
Noek cycle			A tall, narrow piece of land projecting into the	10 503	Hanging Valley	Small valley hang	ing high above a U-shaped valley
Igneous	Rock formed on the surface (during eruptions) or deep underground by the cooling of	Headland Cave	A natural hollow in a cliff		Fjord	Flooded glacial va	illey
		Arch	An atural notion in a clift  An opening in the cliff from where a cave has collapsed		Ribbon lakes	Long, thin lake fo	und in a U-shaped valley
molten rock		Stack			Glacial till	Debris transporte mixture of rocks a	d by a glacier where it then melts. This is a and clav.
l <del></del>	Metamorphic Undergone change due to Spit A narr		A narrow, jutting finger of sand projecting in	to the sea	Erratic	Very large boulde	·
Metamorphic			A beach which joins an island to the mainlan	nd	Drumlin	Smooth, egg-shap	

### CHRIST THE KING - KNOWLEDGE ORGANISERS

### HALF TERM Five – How did the Plains Indians live and survive on the Plains?

1. key words	
Native Americans/ Plains Indians	The term given to the native people who lived in America
The Great Plains	The land which stretches down the centre of America, where the Plains Indians lived in their tribes
Sioux	A large tribe of Indians. It was so big it was called a Nation. The Sioux Nation.
Nomads	People who moved around the land and didn't stay in one place
Visions	A thought/ sight which the Indians experienced. It guided them through life and helped them get their special Indian name
Warfare	Wars between Indian tribes and later between Indians and white settlers

2. The Plains Environment		
Prairie Grass	Long and short grass on the Plains	
Animals on the Plains	Antelope, buffalo, deer, rabbits, gophers	
Climate	Hot and dry in the summer, causing rivers to dry up. Freezing cold in the winter. Strong winds all year round.	
Rocky and Appalachian Mountains	Mountain ranges which the Great Plains were between.	

3. Who were the Plains Indians?		
Hunter/ gatherers	They hunted for food and used the environment to live off. Men and boys would hunt	
Tribes	Lived in tribes. Each tribe was made up of bands which could be hundreds of people or just 20 or 30.  Bands in each tribe would work together Some tribes disliked each other.	
Nomadic	The Plains Indians moved around following the buffalo.	
Women	Women would have a traditional role of looking after the children, cooking, Putting up and taking down the tipi.	

4. How did the	e Indian's homes help the Indians to survive?
Tipis	The name of the Plains Indian's homes. They were a conical shape and built to adapt to the environment.
Adapting to the Plains	The sides of the tipi could be rolled up in summer to cool them down. They could be padded around in winter to keep heat from the fire in.
Decorations	Patterns/ images which told the story of the Indians' bravery during a hunt
Features	Ears/ flaps/ wooden poles/ doorway/ made from buffalo skin/ scalps hanging as trophies/ put up and taken down easily

	5. How did the buffalo help the Indian's to survive?		
	Buffalo	Lived in herds on the Plains. The Indians only killed what they needed. They did not hunt for fun.	
	Uses of the Buffalo	Every part of the buffalo used. Each part of the buffalo helped the Indians survive on the Plains	
	After the hunt	The women would prepare the buffalo for what they needed.	
	Demise of the buffalo	The buffalo became hunted by white settlers who wanted to kill off the Plains Indians and change their way of life.	

6. How did medicine and spirituality help the Plains Indians survive?		
The Great Spirit	Also called Wakan Tanka. He created the world and everything that lived in it. The Indian's worshipped The Great Spirit	
Land and nature	Belief that everything in nature had a spirit. Land belonged to The Great Spirit, not to people	
Sun Dance	A famous ceremony to get help or guidance from the spirit world. A Sun Dance could last for days. It involved men being hung up by their breast until they got a vision	
The Medicine Man	Believed he could cure sickness, drive out evil spirits. He used ointments and potions to treat sickness. Consulted before buffalo hunts for advice on war	
Disease	Settlers who came across brought diseases like cholera and small pox. Dangerous for the Indians as they had no resistance to them	

7. Hunting and Warfare		
Horses	Vital for the survival of the Indians- Went to war on them, used to hunt the buffalo, a status symbol as men measured their wealth in horses.	
Counting Coup	When at war, Indian's were touched with a stick to show bravery.	
Disguise	A method of hunting where the Indians dress up as wolves to get close to the buffalo	
Buffalo Dance	A dance to call the buffalo which could last for many days	
Scalping	Cutting off a scalp of a victim in war, as a trophy	



Marriage

### History - Power in Early Modern Britain

1. key features		
The Reformation	Henry VIII becomes Head of the Church and England becomes a Protestant country	
Counter Reformation	England reverts back to Catholicism	
The Spanish Armada	Spain invades England under Elizabeth I	
The Gunpowder Plot	Guy Fawkes tries to blow up the Houses of Parliament	
Witchcraft	Women were accused of being witches	
The English Civil War	A war within England between Charles I and Parliament	

### 2. The English Monarchs

Henry VIII

Oliver

Cromwell

Mary I	Henry VIII's daughter with Catherine of Aragon. Reverted England back to Catholicism
Elizabeth I	Daughter of Henry and Anne Bolyen. A Protestant
James I	Son of Mary Queen of Scots. King of Scotland and England. A Protestant
Charles I	Son of James I. Angered Parliament by wanting to become an Absolute Monarch. A

Catholic

Protestant King, but upset Protestants by being married to a

A Puritan (extreme Protestant) Led

the New Model Army against Charles I in the English Civil War. Took over as Lord Protector of

**England after Charles** 

Protestant country

King who turned England into a

	3. Henry VIII and the Reformation		
	Causes	Henry Viii wanted a male Heir, fancied Anne Boleyn, Henry needed money	
	Protestant religion	Follows the Church of England	
	Dissolution of the Monasteries	Destroying the buildings of the Catholic Church	
	Rufford Abbey	An Abbey in Nottinghamshire which was destroyed during the Reformation	

### Portraits Pictures of monarchs were painted by artists at the time. They often depicted them to be more attractive that what they really were.

4. Elizabeth I and the Spanish Armada

The Spanish Armada	A fleet of 130 ships from Spain sent by King Philip II of Spain to try and invade England
Protestants V Catholics	Elizabeth was considered to be more sympathetic towards Catholics than her sister, Mary, was of Protestants. Her sister

Catholic Priests and 20 Laymen

Elizabeth never married- instead believing that she was

married to her country and did not need a man to rule.

burned 300 Protestants at the stake. Elizabeth executed 48

### 5. James I, The Gunpowder Plot and Witchcraft

Guy Fawkes	A disgruntled Catholic who wanted England to be a Catholic country
Houses of Parliament	The building in London where the Politician and king met to make the laws of the country
Treason	Going against authority. The Gunpowder Plot was considered to be Treason, which was punishable by death
Witchcraft	James I condemned witches in his book. Women who made herbal remedies to heal the sick were treated with suspicion. Men were only allowed to be doctors at the time.

6. Charles I, the	English Civil War and Execution
Absolute Monarch	A monarch who believes that only God can tell them what to do. This made Parliament angry as he didn't consult them
New Model Army	An army based upon ability rather than someone's position in society. Cromwell realised that just because a person was rich, it didn't mean they were a good soldier
Execution of Charles I	Charles was accused of Treason. He was given a 'show trial' where the court had already decided that he was guilty before the trial.

### 7. Source analysis - key words

Utility	How a source is or isn't useful to us
Reliability	Can we trust the source?
Interpretations	People's opinions about an event or individual
Provenance	What is the source? Who created it? When was it created? Why was it created?
Source content	What does the source tell us. Does our knowledge match up with what the source says?

Henry VIII becomes King

### 8. Timeline of key dates

1509

1534

	1554	Them's vin declares minisch the fredd of the charen of England
	1547	Edward VI becomes King
l	1553	Mary I becomes queen
l	1558	Elizabeth I becomes queen
l	May 1558	The Spanish Armada
l	1603	James I becomes King
	1605	The Gunpowder Plot
١	1625	Charles I becomes King
	1642-1651	The English Civil War
	1649	The Execution of Charles I

Henry VIII declares himself the Head of the Church of England

### What do I need to be able to do?

### By the end of this unit you should be able to:

- Understand/use the sum of angles at a point
- 7 Understand/use the sum of angles on a straight
- angles Understand/use equality of vertically opposite
- quadrilateral Know and apply the sum of angles in a Know and apply the sum of angles in a triangle

### **heywords**

Vertically Opposite: angles formed when two or more straight lines cross at a point

**Interior Ongles:** angles inside the shape Sum: total, add all the interior angles together

Convex Quadrilateral: a four-sided polygon where every interior angle is less than 180°s

Polygon: 0, 2D shape made with straight lines Concave Quadrilateral: a four-sided polygon where one interior angle exceeds 180°

Scalene triangle: a triangle with all different sides and angles

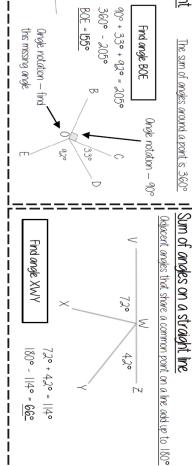
**Isosceles triangle**: a triangle with two angles the same size and two angles the same size





П П ii II

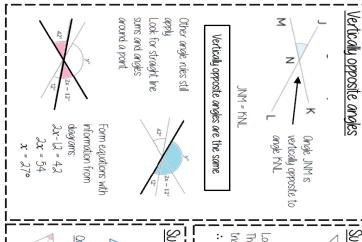
Right-angled triangle: a triangle with a right angle П П П

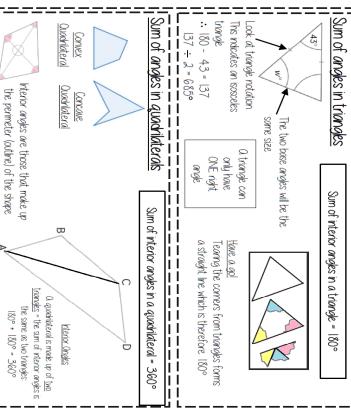


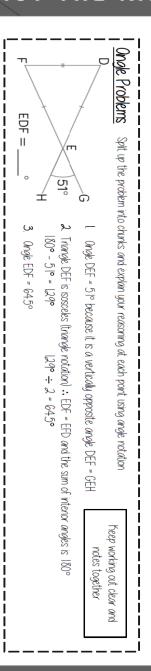
360° - 67°

670

293°.







### MATHS - NUMBER SENSE

### What do I need to be able to do?

### By the end of this unit you should be able to

- Know and use mental addition/subtraction Know and use mental multiplication/division
- Know and use mental arithmetic for decimals
- Use factors to simplify calculations Use estimation to check mental calculations
- Use number facts
- Use algebraic facts

### **heywords**

Commutative: changing the order of the operations does not change the result

Ossociative: when you add or multiply you can do so regardless of how the numbers are grouped

Dividend: the number being divided

Know and use mental arithmetic for fractions

Equation: a mathematical statement that two things are equal Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign

# Mental methods for addition/subtraction

Oddition is commutative

6

360 - 147 = 360 - 100 - 40 - 7Number lines help for addition

and subtraction

Working in 10's first aids

The order of addition does not

change the result

### Quotient: the result of a division Divisor: the number we divide by

### Subtraction the order has to stay the same

4 4 × よ 

multiplication does not change the result The order of

Multiplication is commutative Mental methods for multiplication/division Partitioning can help multiplication

 $24 \times 6 = 20 \times 6 + 4 \times 6$ 

= 120 + 24

Division is not associative

of that in 4000. "How many 25's in 100" then how many chunks Chunking the division can help 4000 ÷ 25

mental addition/ subtraction

Mental methods for decimals

Multiplying by a decimal <1 will make the original value smaller

eg x 0.1 = ÷

0

I've spent  $\frac{2}{5}$  of my money I have

Eallest

Ed

£14

Mental methods for fractions

Use bar models where possible

Methods for multiplication  $12 \times 0.03$ 

### divisor becomes an integer 1.5 ÷ 0.05 $150 \div 5 = 30$ £15

What is  $\frac{5}{3}$  of £ 15?

Methods for addition 23+24

2 + 2 = 4 0.3 + 0.4 = 0.7 4 + 0.7 = 4.7

 $12 \times 3 = 36$   $12 \times 3 = 36$   $12 \times 0.3 = 0.36$   $12 \times 0.03 = 0.036$ 

÷ 10

÷ 100 ÷ 1000

Multiply by powers of 10 until the

How much did they have to begin with?

Methods for division  $15 \div 0.05$ 

12 × 3 =

36

 $1.2 \times 0.03 = 0.036$ 

10 x 3 x 2 x 8  $\omega \mid \omega$ 312

Ш

10 x 3 x 4 x 4

Using factors to simplify calculations

30 x 16

2x5x3x2x2x2x2

### 16 x 10 x 3 Factors can be multiplied in any order Multiplication is commutative

### **Estimation**

and decimals to check if your solution is possible Estimations are useful especially when using fractions

Most estimations round to 1 significant figure

and decimals to check if your solution is possible Estimations are useful especially when using tractions

210 + 899 < 1200

This is true because even if both numbers were rounded up, they would reach 300 + 900

The correct estimation would be 200 + 900 = 1100

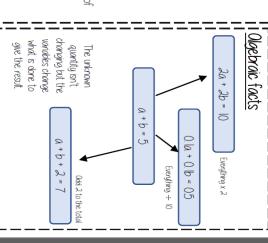
### Number facts

124 x 5 = 620

multiplied or divided by powers of 10 needs For multiplication, each value that is to happen to the result

620÷ 124 = 50

For division you must consider the impact of the divisor becoming smaller or bigger Bigger — the answer will be smaller Smaller — the answer will be bigger (It is being shared into more parts) (It is being shared into less parts)



### What do I need to be able to do?

### By the end of this unit you should be able to

- Identify and represent sets
- Understand and use the union of sets Understand and use the intersection of sets Interpret and create Venn diagrams
- Generate sample spaces for single events
- Calculate the probability of a single event
- Understand and use the probability scale

### heuwords

Set: collection of things

Element: each item in a set is called an element

Intersection: the overlapping part of a Venn diagram (QND n.

Union: two ellipses that join (OR ∪)

Mutually Exclusive: events that do not occur at the same time

Bias: a built-in error that makes all values wrong (unequal) by a certain amount, e.g. a weighted dise Probability: likelihood of an event happening

Fair: there is zero bias, and all outcomes have an equal likelihood Kandom: something happens by chance and is unable to be predicted

### Identify and represent sets

The **universal set** has this symbol  $\xi$  — this me*a*ns EVERYTHING in the Venn diagram is in this set

0 set is a collection of things sets inside curly brackets { - you write

A = {Square numbers} My sets can include every number between and 50 including those numbers

= {the numbers between | and 50 inclusive}

Oil the numbers in set A are square number and between I and 50 = {1, 4, 9, 16, 25, 36, 49}

A

Union of sets

 $\sim$ 

A = {Multiples of 5}

B = {Multiples of 3}

Sample space —

for single events

The elements in  $A \cup B$  are 5, 10, 15, 3, 9, 6, 12

olice is

8={1,2,3,4,5,6}

O sample space for rolling a six-sided

- {the numbers between | and | 5 inclusive}

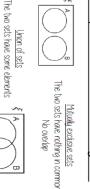
could be in set A OR set

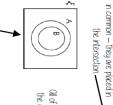
The notation for this is  $A \cup B$ 

There are 7 elements that are either a multiple of 5 OR a multiple of 3 between

Elements in the union

### Interpret and create Venn diagrams





element is not part of any set it is placed outside an ellipse but Oround the outside of every Venn diagram will be a box. If an

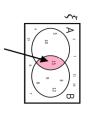
The box

inside the box

Subset
Oil of set B is also in Set 0 so
the ellipse fits inside the set



A = {Multiples of 5} - {the numbers between | and | 15 inclusive.} B= {Multiples of 3}



The element in  $A \cap B$  is G

and a multiple of 5 between I and number that is both a multiple of 3 In this example there is only one 5

variety of ways because they do They can be interpreted in a

possible outcome from an event O Sample space represents a

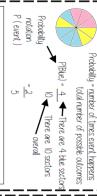
### O sample space for this spinner is not tell you the probability

You only need to write each element

once in a sample space diagram

S = {Pink, Blue, Yellow}

### Probability of a single event

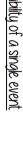


6 4 8 8 = 0.40 = 40%

Probability is always a value between 0 and 1

same probabilitu

interval value is

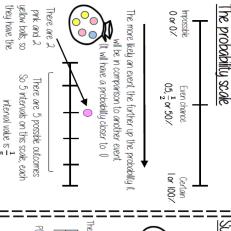




Probability can be a fraction, decimal or percentage value

### П П П Ιİ

This Venn shows the number of elements in each set



### Sum of probabilities

Probability is always a value between 0 and 1

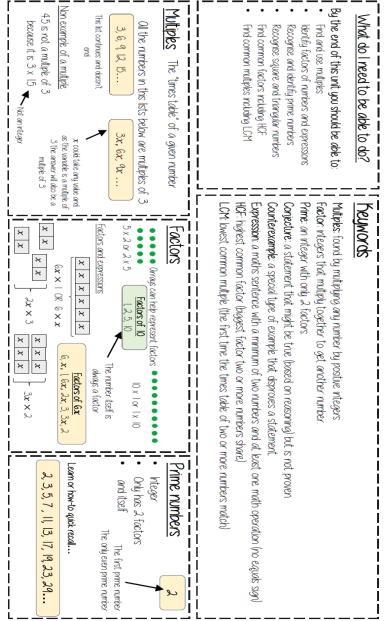
...The probability of NOT getting a blue ball is The probability of getting a blue ball is  $\frac{1}{5}$ The sum of the probabilities is

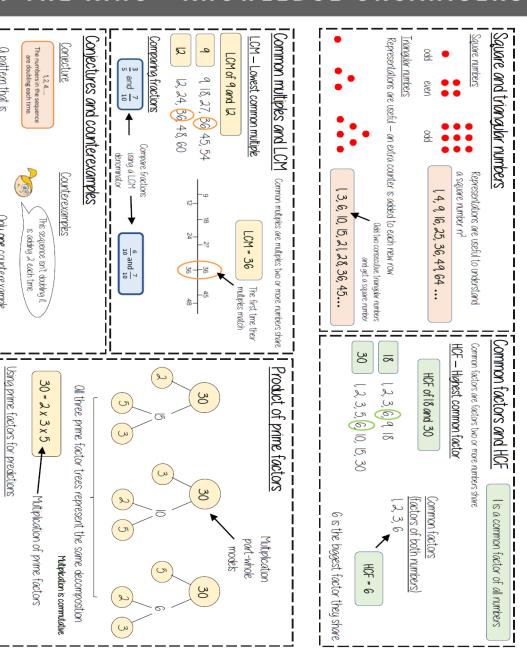
The table shows the probability of selecting a type of chocolate

P(white chocolate) = 1 - 0.15 - 0.35 0.15 05 0.35



### By the end of this unit you should be able to What do I need to be able to do? Identify factors of numbers and expressions Find and use multiples **heuwords** Factor: integers that multiply together to get another number Multiples: found by multiplying any number by positive integers Prime: an integer with only 2 factors





noticed for many

a pattern that is

Only one counterexample is needed to disprove a

conjecture

eg 60

5

30 x 5 30 × 2

2 x 3 x 5 **x 5** 

2 x 3 x 5 x 2

### What do I need to be able to do?

### By the end of this unit you should be able to

- Use letter and labelling conventions
- Draw and measure line segments and angles
- Recognise types of triangle Identify parallel and perpendicular lines
- Recognise types of quadrilateral
- identify polygons Construct triangles (SOS, SSS, OSO)
- Draw Pie charts

### heywords

Scalere triangle a triangle with all different sides and angles Polygon: 0, 2D shape made with straight lines

sosceles triangle: a triangle with two angles the same size and two angles the same size

Right-angled triangle: a triangle with a right angle

Frequency: the number of times a data value occurs

Sector: part of a circle made by two radii touching the centre

Rotation: turn in a given direction

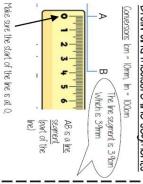
Protractor: equipment used to measure angles

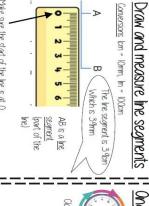
Compass: equipment used to draw arcs and circles

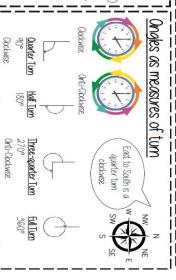


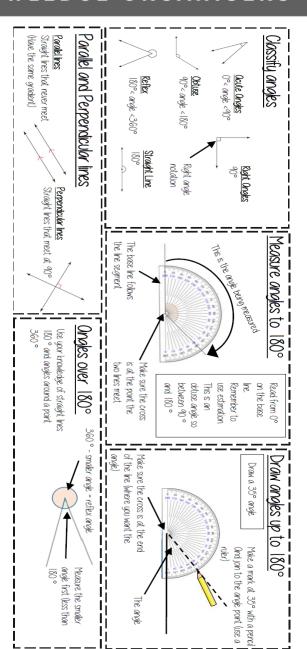
Ongle Notation: three letters ABC This is the angle at B = 113° The arc represents the angle

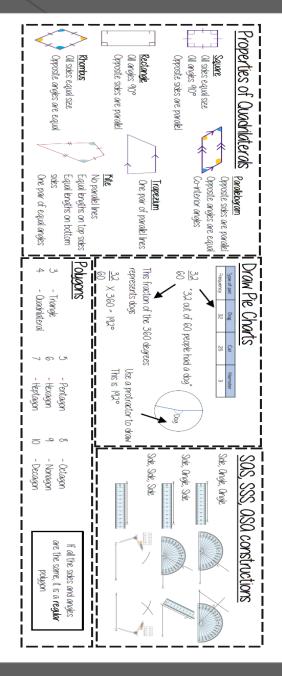
The line that joins E to C Line Notation: two letters EC











	н		IN	G -				DG			AN		ERS	-		Y7				DD /	VA			
Voilà, merci, au revoir	Ça fa it dix-sept euros, quatre-vingts s'il vous e plaît.	Pardon monsieur, c'est combien?	•	Voilà, merci	Je voudrais une crêpe avec du nutella s'il vous plaît	Et pour vous?	Fraise s'il vous plaît	Quel parfum ?	Je voudrais une glace.	Vous voulez autre chose?	•	D'accord	Et pour moi, un sandwich au jambon s'il vous plaît	Je voudrais un croquemonsieur	Vous voulez manger quelque chose?	•	Oui, d'accord, j'arrive tout de suite	Je veux un chocolat chaud s'il vous plaît	Je voudrais un Orangina sil vous plaît	Bonjour, comme boisson vous désirez?	À trois heures trente.	Oui, je veux bien merci, à quelle heure?	Tu veux allerau café cet après-midi?	
21	20	19		18	17	16	15	14	13	12		11	10	9	00		7	6	S	4	ω	2	1	/
Here you go, thank you, good-bye	That is 17 euros 80 please	Excuse me sir, how much is it?	:	Here you go, thank you.	I would like a pancake with Nutella please.	And for you?	Stawberry please	What flavour?	I would like an ice-cream	Do you want anything else?	:	Ok	And for me, a ham sandwich please	I would like a toasted sandwich	Would you want anything to eat	1	Yes, ok, I'll be straight back	I want a hot chocolate please.	I would like an orangina please	Hello, for a drink, what would you like?	At three thirty	Yes, i really want to thank you, what time?	You want to go to the café this afternoon?	

Je préfère

la/

e/

les

J'adore

J'aime beaucoup

J'aime

Positive opinions

Je déteste Je n'aime pas **Negative opinions** 

les repas

meals

**B. LES REPAS** 

### A. FOOD

le riz	les pâtes	les biscuits	l'eau minerale	le gâteau	le yaourt	la glace 🖊	la lait	les frites 🗼 🚧	les pommes de terre	le thon	le poisson	le porc	le boeuf	le poulet	la viande	le jambon	le fromage	le pain
rice	pasta	biscuits	water	cake	yoghurt	ice cream	milk	chips	potatoes	tuna	fish	pork	beef	chicken	meat	ham	cheese	bread

L	┸	ix.							
le pain grillé	les céréales	le vin blanc/rouge	le jus d'orange	le sucre	le thé	le café	le dîner	le déjeuner	le petit déjeuner
toast	cereal	white/red wi	orange juice	sugar 🗬	tea	coffee	dinner	lunch	breakfast

ais/fraîche	D. AD	
fresh	DECTIFS	

propre	salé	sucré	sale	impoli	de mauvaise	peu varié(e)	cher(e)	fort(e)	épicé(e)	délicieux/	dégoutant(e)	barbant(e)	parfait(e)	frais/fraîche
dean	salty	sweet	dirty	impolite	poor quality	not much choice	expensive	strong	spicy	delicious	disgusting	boring	perfect	fresh

### C. FRUIT & VEG

la laitue	le concombre	les carottes	les haricots verts	les oignons	les legumes	le citron	les oranges	les poires	la pêche	la pomme	le melon	l'ananas	les bananes	les fraises	les fruits
lettuce	cucumber	carrots	green beans	onions	vegetables	lemon	oranges	pears	peach	apple	melon	pineapple	bananas	strawberries	fruit

ed wine

de + les	de + la	de + le	SOME
des	de la	du	Æ

pain avec de la Je mange du confiture.

### Assez = quite Un peu = a little Très = very Beaucoup = a lot

Intensifiers

moins

que

= ess

than

plus

que

= more

than







Trop = too

# FOOD & DRIN

Qu'est-ce que vous prenez? What are you having?

I'm having... Je prends...

# E. AU RESTAURANT/MARCHÉ

Comme entrée As a	s'il vous plaît plea	Donnez-moi Give	hav	Avez-vous? Wh	Et avec ça? Any	voulez/désirez? like?	Qu'est-ce que vous Wh	indien/italien rest	cale/chinois/ Indi	un restaurant lo-	l'ambiance the	le service the	les serveurs the	la carte the	le dessert des	rentree	
sa starter	please	ive me	having?	What are you	Anything else?	œ,	What would you	restaurant	Indian/Italian	ocal/Chinese/	ne atmosphere	ne service	the waiters	the menu	dessert	Starter	

75	
S	
S	
S	
S	
S	
S (P	
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PRESE	
PRESE	
景	
PRESEN	
PRESE	
PRESEN	
PRESEN	
PRESEN	
PRESEN	

J'ai besoin de	J'ai soif	J'ai faim	Je voudrais	llya	C'est	Je préfère	J'adore	J'aime	Je mange	Je bois	IL INC. VELINOS
need	I'm thirsty	I'm hungry	l would like	There is/are	lt is	l prefer	llove	llike	l eat	l drink	) (LINESTIAL)

### HILINANO SHI

une bouteille de	un litre de	un carton de	une boîte de	une tasse de	grammes de	cinq cent	un kilo de	ווינדים מיסטו
a bottle of	a litre of	a box of	a tin of	a cup of		500g of	a kilo of	Constitution

### Frequency Phrases

En général = in general Tous les jours = every Normalement = normally

### G. LA SANTE

santé	bon pour la	Ce n'est pas	un regime équilibré	surveiller mon poids	être en to be i bonne santé health	manger sainement
	your health	It's bad for	a balanced diet	to watch my weight	to be in good health	to eat healthily

### Connectives Et = and

Aussi = also

De plus = Moreover Néanmoins = nevertheless Cependant = however

### ESSENTIAL VERBS

TO HAVE

胃器

TO BE

J'ai	I have
Tu as	You have (s)
II/elle a	He/she has
Nous avons We have	We have
Vous avez	You have
	(pl)

Tues

### H. COMPLEX PHRASES

lls/elles ont

They have

Ce que j'aime le plus What I like the	What I like the
c'est	most is
Ce que j'aime le	What I like the
moins c'est	least is
Ce que je préfère	What I prefer
c'est	15

### Je suis lls/elles sont II/elle est Vous êtes Nous sommes We are They are lam He/she is You are (s) You are (pl)

### J. KEY VERBS (PAST)

J'ai	J'ai	J'ai	J'ai	J'ai bu	J'ai
J'ai choisi	J'ai préféré	J'ai aimé	J'ai pris	bu	J'ai mange
l chose	l preferred	l liked	I had	l drank	late
		Ĺ	*	1	

### Year 7 - HT6 - J'habite...

	Year 7 – HT6	– J'habite		
11 11	J'habite dans un petit appartement au centre- ville de Paris.	1	I live in a small flat in the centre of Paris	
	Dans mon appartement il y a deux chambres, une cuisine, un salon et une petite salle de bains.	2	In my flat there are two bedrooms, a kitchen, a living-room and a small bathroom	
	C'est confortable et assez moderne	3	It is comfortable and quite modern	
	Paris est la capitale de la France et c'est situé dans le nord du pays.	4	Paris is the capital of France and it is situated in the north of the country.	
	Ici, on peut visiter la Louvre, le tour Eiffel et l'arc de triomphe.	5	Here, you can visit the Louvre, Eiffel tower and the arc de triomphe.	
	J'adore ma ville car c'est très animé cependant	6	I love my town because it is very lively however	
	c'est aussi assez sale.	7	It is also quite dirty.	
	Ici le 14 juillet on fête le jour national, il y a	8	Here, on the 14th July we celebrate 'national day' there is	
	un grand défilé et des feux d'artifices, c'est vraiment chouette	9	A big parade and fireworks, it is really great.	

# HOME & ENVIRONMENT

Where do you live? Où habites-tu?

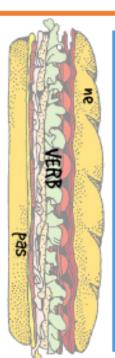
### la ville à la campagne à la montagne un appartement une grande maison jumelle au bord de la mer une ville J'habite à une ferme une petite maison une maison dans la banlieue de près de l'autoroute près de la plage une grande ville ive in a flat a city a farm a big house a small house a semi-detached on the outskirts of near the motorway near to the beach at the seaside in the mountains in the countryside a town house

	Bristol	
Bristo	ristol est plus bruyant q	
500	us bru	
	yant q	
M	ue Ma	
ristol is noisier than Malmesbury	que Malmesbu	
<del>,</del>	?	

To make a verb NEGATIVE, you make a negative sandwich:

ne + verb + pas = not/don't

ne + verb + jamais = never



Je ne joue pas au foot = I don't play football Je ne joue jamais au foot = I never play football

les magasins

the shops

### LES ADJECTIFS

WHERE I LIVE

\	affreux	beau	joli	vieux	ancien	moderne	bruyant	mauvais	calme	rurale	ennuyeux	nul	5. 1. 2.
	terrible	beautiful	pretty	old	old	modern	noisy	bad	calm	rural	boring	rubbish	OT COLLEGE

= ess	moins_	= more_	plus
than	que	than	que

### What is your town like? C'est.. It is...

Comment est ta ville?

# **UPGRADE YOUR DESCRIPTIONS**

normalement— normally	sometimes	quelquefois—	souvent-often	toujours—always	aussi—also	mais—but	et—and
	vraiment—really	assez—quite	trop-too	très—very	almost always	presque tout—	tout—completely

### C. DANS LA VILLE

l'hôpital	la gare (SNCF)	l'église (f)	le commissariat	le collège	le centre de loisirs	le centre commercial	la bibliothèque	la gare routière	la galerie d'art	la mairie	la fôret	le bateau	le port	la discothèque	le stade	la piscine	la patinoire
the hospital	the station	the church	the police station	the school	the leisure centre	the shopping centre	the library	the bus station	the art gallery	the town hall	the forest	the boat	the port	the disco	the stadium	the swimming pool	the ice rink

D. LE TEMPS

# HOME & ENVIRONMENT

ō

lt's hot	ll fait chaud
lt's cold	ll fait froid
lt's windy	ll y a du vent
lt's cloudy	ll y a des nuages
lt's stormy	ll y a des orages
lt's snowing	ll neige
lt's raining	ll pleut
lt's foggy	ll fait du brouillard
lt's bad weather	ll fait mauvais
lt's sunny	ll fait du soleil
the weather	le temps

u fais
--------

l'essence

petro

What do you do for the l'environnement? environment?

	Je vais +	infinitive	Je voudrais +	Ce serait	C'était	Ce sera	C'est	ll y aura	ll y avait	llya	On peut	G. HIGH FREQ
1	l am going to		l would like to	lt would be	lt was	lt will be	lt is	There will be	There was	There is/are	You can	QUENCY VERBS

E. L'ENVIRONNEMENT	EMENT
le recyclage	recycling
le verre	glass
le papier 🛮 📹 📂	paper
les vêtements	clothes

l'électricité	l'eau	les piles	les journaux	les bouteilles	les déchets	les sacs en plastique	les vêtements	le papier 🛮 📹 📂	le verre	le recyclage	
electricity	water o	batteries	newspapers	bottles	rubbish	plastic bags	clothes	paper	glass	recycling	

)	à velo	à pied	en scooter	en avion	en tramway	en voiture	en car	en bus	Je voyage	en commun	les transports	F. LE TRA
2	by bike	on foot	by scooter	by plane	by tram	by car	by coach	by bus	l travel	transport	public	LE TRANSPORT

**ESSENTIAL VERBS** You must.

Il faut....

Nous habitons We live Vous habitez You live ( Ils/elles habitent They live	J'habite Tu habites Il/elle habite	I live You live He/she
Nous habitons Wous habitez Yous habitez Tils/elles habitent Ti	Tu habites I/elle habite	You live (s) He/she lives
Vous habitez Yous habitent Th	Nous habitons	We live
Ils/elles habitent TI	Vous habitez	You live (pl)
	Ils/elles habitent	_

### Near Future Tense

¥							
lls/elles vont conserver	Vous allez recycler	Nous allons manger	II/elle va utiliser	Tu vas visiter	Je vais habiter	+ infinitive verb	Present tense aller

### HIGH FREQUENCY WORDS

00-OL

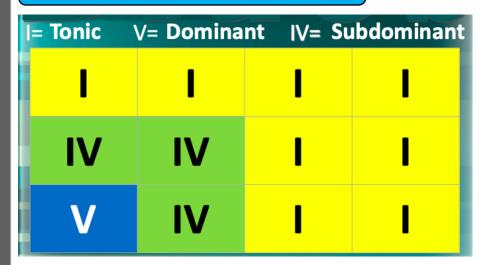
qu'est-ce que—what parce que—because quel/quelle—which comment-how car—because où-where dans—in

### Le passé compose The perfect tense

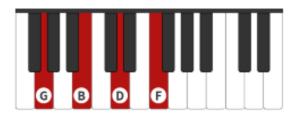
Tu as visité J'ai habité II/elle a utilisé Avoir (pres) + past participle lous avons mangé = past tense

ous avez recyclé s/elles ont conservé

### **Definitions and theory**



- **1. 12 bar blues** = music based around this chord progression
- 2. Tonic = chord I
- 3. Subdominant = chord IV
- 4. **Dominant** = chord V
- 5. Improvisation = making it up on the spot
- **6.** Turnaround = where you substitute chord V in bar 12
- **7. Seventh chord** = when an extra note is added to a chord, 7 notes above the root, i.e. G7:



### Chords and Roman numerals

- Whatever key you are in, count that as '1'
   (i.e. in C major, 1 is C)
- From there, count up to 4 and 5 to work out what chords are IV and V (in C, IV is F and V is G)

### **Instruments for blues**

### **INSTRUMENTS**

**Strings**: double bass or bass guitar often used to play the bass line. Guitar plays chords and melodies

**Woodwind**: saxophone sometimes used for melody

**Brass**: trumpet//trombone often used for melody

Percussion: drum kit

Voices: soprano/alto/tenor/bass - any kind

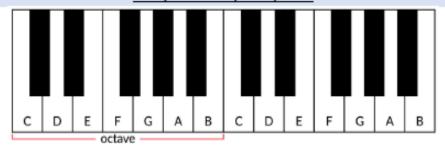
of voice can sing blues

**Keyboards**: piano is often used to play chords, bass line and/or melody, but organ

is sometimes used too



### A. Layout of a Keyboard/Piano

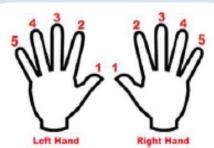


A piano or keyboard is laid out with WHITE KEYS and Black Keys (see section G). C is to the left of the two Black Keys and the notes continue to G then they go back to A again. Notes with the same letter name/pitch are said to be an OCTAVE apart. MIDDLE C is normally in the centre of a piano keyboard.

### D. Keyboard Functions



### E. Left Hand/Right Hand (1-5)





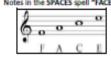
### Exploring Treble Clef Reading and Notation

### B. Treble Clef & Treble Clef Notation

A STAVE or STAFF is the name given to the five lines where musical notes are written. The position of notes on the stave or staff shows their PITCH (how high or 0 low a note is). The TREBLE CLEF is a symbol used to show high-pitched notes on the stave and is usually ised for the right hand on a piano or keyboard to play the MELODY and also used by high pitched instruments such as the flute and violin. The stave or staff is made up of 5 LINES and 4 SPACES.

Every Green Bus Drives Fast. Notes in the SPACES spell "FACE"



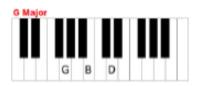


Notes from MIDDLE C going up in pitch (all of the white notes) are called a SCALE.



### C. Keyboard Chords









Play one - Miss one - play one - miss one - play one

### F. Black Keys and Sharps and Flats

There are five different black notes or keys on a piano or keyboard. They occur in groups of two and three right up the keyboard in different pitches. Each one can be a SHARP or a FLAT. The # symbol means a SHARP which raises the pitch by a semitone (e.g. C# is higher in pitch (to the right) than C). The b symbol means a FLAT which lowers the pitch by a semitone (e.g. Bb is lower in pitch (to the left) than B). Each black key has 2 names —

C# is the same as Db – there's just two different ways of looking at it! Remember, black notes or keys that are to the RIGHT of a white note are called SHARPS and black notes to the LEFT of a white note are called FLATS.





### **Key Words**

Articulation: how certain notes or passages are sung or played.

Fluency: performing music accurately, quickly and with expression.

Diction: how a singer vocalises and pronounces the words of a song.

Interpretation: how a performer will present the material and how emotions are communicated through the performance.

### X Factor Performance Task

- Decide whether you are going to perform as a group, or solo.
- Practise and rehearse at home, ready to give a good X Factor performance.
- Perform something that you are confident with.

What does 'timbre' mean?

Timbre is the tonal quality and sound of an instrument.

### Music Performance

'To play a wrong note is insignificant; to play without passion is inexcusable.'

Ludwig Van Beethoven

### Music Performance Tips

- √ Your performance does not have to be perfect.
- √ Keep going.
- √ Practice makes perfect!
- Be confident and let loose.
- √ Be unique.



### How am I being assessed?

- Accuracy of performance.
- Communication and teamwork.
- Interpretation and fluency of music.
- Technical control of an instrument.

### What does 'intenation' mean?

 Intonation is the pitch accuracy of the instrument

What does 'timing' mean?

Timing is the ability to keep in time and accurately perform a rhythm.

### Why is constructive criticism important?

- It helps you to improve.
- It helps you to identify was to improve.
- It is crucial to share opinions with others.
- Verbal feedback is essential to help support and develop as a musician.

Key Words:

Routine

Tuck

Pike

Straddle

Execution

Skills:

Full Twist

Seat Drop Front Drop

Back Drop

Front Somersault

Famous Trampolinists:



Bryony Page



### Trampolining

### **Competitive Rules**

- A routine must always start and finish on feet.
- Competitors must start their routine within 60 seconds of presenting to the judges.
- Competitors are allowed one "out" bounce (a straight jump to control their height) at the end of a routine, before sticking the landing.
- The trampolinist must stop completely—this means the bed must stop moving—and they have to hold still for 3 seconds before moving.
- All moves must be performed in the 3 basic shapes; tuck, pike and straddle.



- A final trampoline mark is based on a difficulty and execution score.
- A difficulty score begins at 0.0 and goes up continuously with every difficult skill performed.
- 3. An execution score is different and begins at a score of 10.0 and is then deducted by judges for errors in performance.

### **Types of Guidance**

<ul><li>Demonstrations</li><li>Images</li><li>Videos</li><li>Observations</li></ul>	Example— demonstration to perform a seat drop in trampolining.		
<ul><li>Coaching points</li><li>Feedback</li><li>Peer Feedback</li><li>Questioning</li></ul>	Example— A coach telling a trampolinist how to correct their position in a skill.		
When a performer is physically guided or supported by the coach/teacher.	Example— A trampoline coach supporting a front somersault.		
When a piece of equipment or an aid is used to help a performer learn and practise a skill.	Example— Using a hardness when learning somer- saults in trampolin- ing.		
	<ul> <li>Images</li> <li>Videos</li> <li>Observations</li> <li>Coaching points</li> <li>Feedback</li> <li>Peer Feedback</li> <li>Questioning</li> <li>When a performer is physically guided or supported by the coach/teacher.</li> <li>When a piece of equipment or an aid is used to help a performer learn and</li> </ul>		

### Key Words:

Push

Let

Defensive

Balance

Movement

Skills:

Serve

Forehand

Backhand

Topspin

Backspin

### **Table Tennis**

### Rules:

- 1. Games are played to 11 points and must be won by 2 points
- 2. Alternate serves every 2 points, unless it gets to 10-10 where you change to 1 serve each
- 3. In singles the serve can land anywhere on the table
- 4. A serve that touches the net on the way over is a "let" which means you can take the serve again
- 5. Volleys are not allowed
- During a rally, if your ball hits the net and goes over itself it is your point
- If you touch the table with any part of your body you automatically lose the point

### Famous table tennis players:





-12 - 11		0.0		_
Kell	v	31		е١
			-	-

Table tennis shot	How to play it	
Forehand and back- hand push	<ul> <li>Face the paddle slightly towards the ceiling.</li> </ul>	
	<ul> <li>Strike the ball gently in order to ensure it stays on the table.</li> </ul>	
	This is a defensive shot.	
Forehand and back- hand topspin	<ul> <li>Face the paddle slightly towards the table and hit the ball at the peak of its bounce.</li> </ul>	
	Do this with speed to gain topspin.	
	This is an attacking shot.	

### Types of Feedback in Sport

### There are two types of feedback...

1. Intrinsic Feedback	This is the physical feel of the movement as it is performed It helps the performer to solve problems themselves It helps them to develop skills independently
2. Extrinsic Feedback	This is provided by external sources during or after a performance     It can come from teachers, coaches or teammates.

### Feedback can also be experienced at different times...

3. Concurrent Feedback	This is experienced by the performer whilst completing the action  E.g. A gymnast will experience feelings of being in a balanced position whilst they successfully complete a handstand  It is often the case that concurrent feedback is also intrinsic feedback
4. Terminal Feedback	This is experienced by the performer once the movement has been completed  To rexample, a cricketer receives terminal feedback about the quality of their shot once the ball reaches the boundary  It is often the case that terminal feedback is also extrinsic feedback

### Interpretation and Analysis of Feedback Data

- 1. Data can be gathered and shared before, during and after a performance.
- Quantitative data— where you measure amounts. E.g. number of successful passes made in football
- 3. Qualitative data—how somebody feels about something. E.g. gathering opinions on their most recent performance

### Striking and Fielding

### ev Words:

Technique Reactions Awareness Decision Fingers ready Catching Throwing Overarm Bowling Batting Fielding Coordination



Two teams, both with 11 players, play an innings of batting and bowl-

When one team is batting they try and score as many runs as they can by hitting the ball around an oval field, within a set boundary.

The other team must get them out by bowling the ball overarm at the stumps, which are at either end of a 22 yard area called a wicket.

The bowling team can get the batsmen out by hitting the stumps or catching the ball. Once the batting team is all out, the teams swap over and they then become the bowling side.

One run is scored each time the batsmen cross and reach the set of stumps at the other end of the pitch.

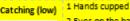
Four runs can be scored if the ball reaches the perimeter of the field

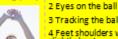


1 Hands cupped

2 Eyes on the ball 3 Tracking the ball

4 Feet shoulder width apart with knees slightly bent





3 Tracking the ball 4 Feet shoulders width a part knees

### (overarm)

2 Point at the target

3 Flex the throwing arm

4 Eye on the target

5 Shift weight

6 Extend your throwing arm to-wards the target

### Positions in cricket:

Bowler: throws the ball using the overarm technique towards the stumps that a batsman is defending. The bowler aims to either take the wickets or to prevent run scoring opportunities.

Batter: aim is to save the wicket from being hit by the ball. The batter will aim to hit the ball far so that more runs can be scored.

Fielder: there are a number of fielders on a cricket team and all have different roles however the main aim is to stop the ball and field it back the wicket to prevent runs from happening.

Wicket keeper: is the player on the fielding side who stands behind the wicket being watchful of the batsman and ready to take a catch, to stump the batsman out and run out a batsman when occasions arises.

### Physical, Emotional and Social Well being

Physical health —the body

Emotional health - mind and feelings

Social health —interacting with others

Well being—a combination of physical emotional and social health

### 2 ) Positive effects of training on:

### Physical health

- Stronger bones (increased bone density)
- Lower cholesterol/ reduced obesity
- Increase development of components of fitness
- Increased life expectancy

### 3 ) Emotional health

- To increase self esteem confidence—increased endorphins released
- Reduce risk of age related diseases- dementia
- Releases stress and tension
- Fun/ enjoyment/ reduced boredom

### 4 ) Social health

- To develop teamwork skills
- To meet new people/ friends
- To develop communication skills
- Develop leadership skills

### 5 ) Negative effects of training on:

Physical health—overexertion leading to heart failure /over use injuries Emotional health- training complete injury and cause depression Social health—training long hours means less time spent with family

The Health Triangle



MENTAL AND EMOTIONAL Health - The combination of Physical, Mental/Emotional, and Social well-being

- 8. Physical health: is linked to fitness-being able to perform effectively the physical tasks involved in life
- Emotional health: or mental health is linked to personal wellbeing—feeling positive about yourself
- 10. Social health: also contributes to wellbeing-feeling positive about interactions with other people.

### 6) Positive effects of exercise:

Helps you cope with the physical side of life

Even moderate exercise improves how long you will live

Lowers psychological illness

Lowers risk of eating problems

Gives you a lower resting heart rate and lower blood pressure

Can help weight control

Gives you stronger bones

### 7) Negative effects of exercise :

Put you ratrisk of a sport related injury

Time off to recover from injury can lead to psychological

Competition pressure can lead to psychological problems

Stresses and needs of a particular sport can lead to long term health problems

### Rugby

Basic Rules	
1	Two halves consisting of 40 minutes
2	Each team has 15 players on each side
3	Passes must be played with the ball travelling backwards
4	Tackling cannot be made above should height
5 Attacking players must remain behind the ball whilst active or you run the risk of being called offside	

		Scoring
1	Try	awarded when a player plac- es the ball down in their opponent's dead ball area behind the goal. 5 points are awarded.
2	Conversion	a free kick that the team is awarded after a try to earn 2 bonus points. A successful kick needs to pass between the upper posts and top bar
3	Penalty Kick	will gain a team 3 points and is awarded to a team when the opposing team causes an infringement.
4	Drop Goal	can be kicked out of the hand as long as the ball bounces first and can eam a team 3 points

	Skills	
1	Running with the ball	Carry the ball in two hands, ac- celerate into spaces, run direct and look to pick gaps in defen- sive lines. Draw players towards creating space for others to run into
2	Passing (Offloadin g)	Pass with accuracy over speed, good communication prevents mistakes. Always be prepared to receive a pass with your hands up ready. Throw a pass you'd like to receive.
3	Tackling	Low body position, shoulder drive below the hip, head safe side, lock arms to prevent leg drive, try to land on the tackled player, release once player is fully grounded
4	Rucking	Low body position - hips above shoulders, stay on feet if you want to play the ball. Drive oppo- sition players off or create a solid base to play from

### Rugby Pitch

- 1, Goal line (try line)
- 2, Half way line
- 3, 22m, 10m and 5m line

### **Injuries in Sport**

	Types of Injury		
	Injury	Description	
1	Sprain	Damage to a ligament that crosses a joint.	
2 Fractures Broken bones caused by impact, twisting or repetitive stress on the bone.		Broken bones caused by impact, twisting or repetitive stress on the bone.	
3	Dislocation	Joint injuries that occur when the bones meeting at a joint are dislodged through impact, twisting or pre-existing weakness to that area	
4	Concussion	Caused by violent impacts to the head	
5	Abrasion	Damage to the skin caused by impacts and collisions	
6	Torn Cartilage	Cartilage lines the end of bones and can be damaged through twisting actions	
7	Overuse injuries	Caused by repetitive actions or poor technique.	

	How to Treat an Injury (RICE method)		
R	R Rest Immobilise the injured part		
T	I Ice Apply an ice pack or other cold object to the affected area		
С	C Compression Ensure the ice pack or compress is firmly pressed against the affected area		
Ε	E Elevation Raise the injured limb above the level of the heart		

The RICE method helps to reduce swelling and pain! Used most commonly for soft tissue injuries or injuries where swelling is likely to occur.

	Prevention of	Injury
nem	fairly	

- I Follow rules and apply them fairly
- 2 Always use protective equipment. Ensure all protective equipment is in good condition

Key Words:

Contact

Replaying

Distance

Free pass

Penalty pass

Skills: Passing Catching

Footwork Attacking

Defending

Shooting

Famous Netball players:



Helen Housby



Imogen Allison

### Netball

### Rules:

A team consists of 7 players (GK,GD,WD,C,WA,GA,GS)

You cannot move with the ball.

You cannot snatch or hit the ball out of a player's hands.

You cannot contact another player (pushing or barging).

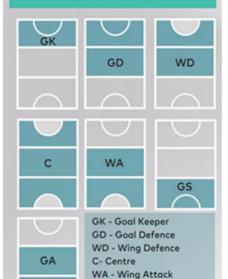
You must stand 1 metre away from the person with the ball (known as 1m distance).

You cannot hold the ball for more than 3 seconds.

You cannot replay the ball (drop it and pick it up again).

You must stay within your designated area of the court.

### **Netball Court Positions**



GS - Goal Shooter

GA - Goal Attack

FREE	PENALTY
PASS	PASS
GIVEN	GIVEN
Travel	Contact
with the	another
ball.	player.
Distance	Contact
less than	on the
1m.	ball
Holding the ball for over 3 secs. Replay- ing the ball.	when held by a player.
Offside.	

### **Factors of Participation**

### AGE

Ageing affects people in different ways.

Children need to develop gross motor skills from an early age to become confident movers.

Adolescents experience a growth spurt that changes their physical development.

Older people may experience decrease in flexibility and strength and weight gain making participation in sport more difficult.

### GENDER

There is a big drop in girls' participation in sport each week from the age of 11. By age 14, boys are twice as active than girls.

Research shows that common barriers to participation for girls or women are due to:

They don't see the relevance of sport in their lives

They dislike taking part with boys or men who play too aggressively

They are more motivated by having fun, making friends, and keeping fit than excelling

### SOCIO-ECONOMIC STATUS

Socio-economic status recognises that fact that income and wealth influence people's life experiences. For example, the more money you have, the more likely you are to participate in sport. This could be due to these following factors:



### ETHNICITY

Over half of people in black and minority ethnic (BME) communities do no sport or physical activity.

One of the main reasons why BME communities have lower rates of participation is the lack of BME role model involved in leading and organising sport. For example, only 5% of coaches are from BME communities and only 7% of sports professionals (other than performers) are from BME communities.

### DISABILITY

The participation of disabled people in sport is much lower than that of non-disabled people, for all age groups. This is due to:

Physical barriers - e.g. a lack of adapted equipment

Logistical reasons – e.g. a lack of transport or inappropriate communication

Psychological reasons - e.g. lack of confidence and other people's attitudes

### **Health and Fitness**

### Key Words:

Diet Carbohydrates Fats Protein Vitamins Minerals Water Fibre Heart Rate Stretching

A state of complete mental, physical and social well-Health being; not merely the absence of illness or infirmity The ability to meet the demands of the environment Fitness How well a task is completed Performance

### Warm Up

	There are three elements to a warm up:	
1	Pulse raising activity—e.g. a run	
2	Stretching—the key muscles which are to be used in your session	
3	Games related activity—this involves undertaking activities in the sport that you are about to participate in	

There are lots of different types of training that can be undertaken. This includes:

Circuit,

Continuous, Cross

Fartlek

Weight

Plyometric

Cool Down

	There are two elements to a cool down:
1	Pulse reducing activity—e.g. a slow jog reduced to a walk
2	Static stretching—stretching that is done stood still to reduce heart rate
3	A cool down is undertaken to remove lactic acid from your working muscles.
4	The cool down also helps to reduce heart rate and bring your heart rate back down to pre exercise conditions.

### Diet

1	Diet	Diet is an essential part of providing our bodies with energy we need to maintain a healthy lifestyle and optimise performance. It
2		is important that food and drink are consumed to enable to body to perform to its best.
3		The 7 factors of a balanced diet include carbohydrate, protein, fat, vitamins,
4	Key Elements	There are seven key elements of a balanced diet. These include: Carbohydrate, Proteins & Fats—Macro Nutrients Vitamins & Minerals—Micro Nutrients Water and Fibre
5	Macro Nu- trients	All of these provide energy for the body. Carbohydrates is the main energy source which can be fond in foods such as pasta.
6		Protein allow growth and repair of musde. It can be found in foods such as chicken, fish, egg and nuts.
7		Fat provides a slow release of energy and can be found in butter, eggs and other dairy products.
8	Micro Nu- trients	Vitamins are given different letters which affect different elements of the body. For example, Vitamin C is found in oranges and is good for vision and healthy skin.
9		Minerals, such as calcium, help to improve bone strength and improve teeth quality.
10	Other elements	Water is used to hydrate the body and can be found in fruits and vegetables.
11		Fibre is important as it helps to aid digestion and prevent constipation. This can be found in wholemeal foods such as wholemeal bread and cereals.
12	Calorie Counting	Calorie counting involves counting how many calories you consumer per day and it helps to ensure you do not add weight to your body.
13		Aathlete would then identify how many calories they used during a day. If the athlete consumes more calories than they burnt, they will add weight to their body. If the athlete eats less calories than they use, they will lose weight and fatigue.

### Handball

Key Words:		
3 seconds on the ball	Players are only allowed to have possession of the ball for 3 seconds.	
Contact	Contact is allowed in handball.	
Goalkeep- er	Goalkeeper can leave the D but not in possession of the ball.	
Corners	Awarded if the ball comes off a defender and goes behind the goal.	
Penalty throw	Awarded if a defender steps into the D.	

### Skills:

Shooting	Players can shoot from outside of the D or by performing a jump shot
Dribbling	Players can move with the ball by bouncing but only for 3 seconds.
Passing	Passing is done with one hand or two and can include a shoulder pass and bounce pass.

### Famous Player

### Danish player Mikkel Hansen Three time world player of the year.



### Rules

A match consists of two periods of 30 minutes each. Each team consists of 7 players; a goalkeeper and 6 outfield players.

Outfield players can touch the ball with any part of their body that is above the knee.

Once a player receives possession, they can pass, hold possession or shoot.

If a player holds possession they can have the ball for up to 3 seconds, after they can dribble or take three steps (without dribbling).

Only the goalkeeper is allowed to come in contact with the floor of the goal area.

Goalkeepers are allowed out of the goal area but must not retain possession if they are outside the goal area.

### Positions in Handball:

Goalkeeper: a player who is positioned inside the goalkeeping area responsible for defending goals.

Left Wing: attacking player responsible for left hand side of the court.

Left Back: stands to the left of centre back and tries to prevent the opposition from shooting.

Centre back: stands in the middle of the court and provides both defending and attacking options.

Pivot player: an attacking player who travels along the opponents six metre line.

**Right Back:** has some responsibilities as the left back down the opposite side.

Right Wing: has the same responsibilities as the left wing but down the opposite side.

### **Lifestyle Choices**

Lifestyle choices - the choices you make that can affect your health and fitness.

### 1) Eating a healthy diet:

- Boosts your energy levels, so you are better able to enjoy life.
- Will supply your body with the central nutrients it heeds for a healthy immune system helping you fight off illnesses
- Reduces the risk of developing serious health conditions such as heart disease type 2 diabetes high blood pressure high cholesterol or stroke
- Communication stress levels and improve your sleep patterns
- Will help you lose weight if you are currently overweight or maintain a healthy weight

### 2) Eating an unhealthy diet:

- Leads to deficiencies in essential nutrients and causes health conditions such as osteoporosis and rickets as well as fatigue and muscle weakness
- Leads to an increase in weight and body fat which puts you at risk or developing health conditions such as heart disease type 2 diabetes high blood pressure high cholesterol and stroke
- Can affect your concentration levels and make you feel lethargic making it more difficult to find the energy to exercise
- Can affect your quality of sleep
- Can cause you to feel guilty and depressed especially if you over heat

### Living an active life:

- Lowers your risk of disease
- Lowers your risk of developing mental health conditions such as depression or dementia
- Please your self esteem the quality of your sleep and your energy levels
- Reduces stress and anxiety
- Improve your fitness levels

### 4) Living an inactive life:

- Increases your risk of disease
  - Increases your risk of low self esteem anxiety and depression
- Decreases your muscle mass overall strength and energy levels making daily tasks such as carrying shopping bags more difficult

### A good work/rest/sleep balance:

- Improve your physical emotional and social health
- Makes you feel more in control of your life helping to reduce stress
- You are better at making good decisions

### 6) A poor work/ rest/ sleep balance can:

- Increase your risk of depression
- Lead to weight gain
- Increase your risk of illness and disease
- Increase stress and anxiety
- Results in poor quality sleep

### Football

# | Key Words: | 1 | Shooting/striking | 2 | Passing | 3 | Defending | 4 | Attacking | 5 | Tackling | 6 | Crossing | 7 | Chipping | 8 | Lobbing | 9 | Throwing | 10 | Heading | 11 | Dribbling | 12 | Control |

### Scoring

- The aim is to outscore your opponent bet getting the ball into the net
- The whole ball must cross the goal line for it to constitute a goal
- You may score with any part of your body excluding your arms and hands
- You can score from anywhere on the pitch
- Defending is as important as scoring. If you can't prevent opponents from scoring, you will struggle to win

_	
Rule	s:
1	A senior football match consists of two 45-minute halves
	and must have a 15-minute break in the middle
2	A team can start with a maximum of 11 players, of which
	one is the designated goalkeeper
3	A team is able to make substitutions at any time of the
	match and are able to make a maximum of three changes
4	A referee may award a foul if they believe an unfair act is
	committed by a player. A foul contravenes the laws of the
	game and can be given for a range of offences (for exam- ple, kicking the player, pushing, handball etc).
5	In cases of foul play, a referee can penalise players with either a yellow or red card. A yellow card gives a player a
	warning about their conduct and a red card requires
	them to leave the pitch . 2 yellow cards is a sending off
6	A throw-in is awarded to a team if the opposition kicks
	the ball over the side-lines
7	A corner kick is awarded to a team if the opposition kicks
	the ball over the goal line and either side of the goal
	posts
8	A player is deemed offside if they are in front of the last
	defender when a teammate passes the ball through to
\	them



### **Commercialisation in Sport**

The	Mad	ia in	Sport	

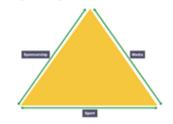
### Positive influences of media:

- Raise awareness of sport
- Promote healthy active lifestyles
- Positive role models
- Celebrate effort and success
- Provide a sense of belonging
- Generate revenue and attract investment

### Negative influences:

- Intrude on performers' privacy
- Showcase negative values and behaviour
- Undermine officials and their decisions
- Under-representing women's, black and minority ethnic and disability sport

### The golden triangle



The golden triangle shows the relationship between sport, the media and sponsorship. It represents the commercial – money-making – nature of sport

Sponsorship in Sport				
Types of sponsorship				
1. Individuals	wear a brand, endorse products and pay for travel costs			
2. Teams/ Clubs	wear kit, have a company name for the stadium			
3. Sports	rename competitions			
4. Events	allow use of their logo and provide free product to athletes			
Benefits of sponsorship for sports				
1. Individuals	cover costs of kit/equipment			
2. Teams/ Clubs	pays towards kit/equipment and facility maintenance			
3. Sports	pays for coaching			
4. Events	covers venue hire and catering			
Disad vantages for sport				
1 Sponsorship can be limited and withdrawn				

- 2. Some sponsorships give a bad image to sport (e.g. alcohol)
- 3. Performers can become reliant on sponsor

### Benefits for sponsors

- Raise awareness of their brand/company Advertise products and services
- 2. Improves company reputation
- 3. Increases sales through media exposure

### Disadvantages for sponsors

- 1. Uncertain investment as sporting success not guaranteed
- If the sport or performers cause bad publicity, this reflects badly on the brand

Key Words:

Lay-up

Jump shot

Travel

Double Dribble

Skills:

Dribbling

Jumping

Passing

Catching Shooting

Footwork

Famous basketball players:



#### Basketball

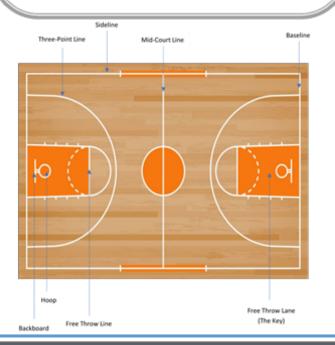
#### Rules:

Travelling—Players are not allowed to carry or move with the ball in their hands. Side line ball to the opposition is awarded if this occurs.

**Double Dribble**—This is when a player dribbles the ball twice after the ball comes to rest or they put two hands on the ball. Side line ball to the opposition is awarded if this occurs.

Scoring—2 points awarded for a basket scored within the 3 point line. 3 points are awarded for a basket scored from outside the 3 point line. 1 point is awarded for a free throw.

Physical contact — No contact is permitted between players.
Side line ball is awarded to the opposition.



#### Classification of Skill The classifications fit on a continuum... Environmental influence Closed Open Difficulty Basic ◀ Complex Organisational Level Low < High 1. Open Where the environment is constantly changing E.g. a tackle in rugby The timing and style of the tackle is heavily influenced by many factors including the ball carrier, the tackler's teammates and the position on the pitch 2. Closed Where the environment always remains the same E.g. a darts throw The exact timing of the throw is down to the athlete, who is throwing the same weight dart in a similar each time 3. Basic A skill the player finds easy and needs little concentration to do E.g. 400m race This skill has very few sub-routines A skill that requires the performer's complete attention to do 4. Complex E.g. a somersault on a trampoline This skill has many sub-routines 5. Low A skill that can be split into sub-routines easily and each sub-routine can be Organisational practiced separately E.g. front crawl Sub-routines that can be practiced separately include: arm pull, breathing stroke, leg kick, tumble turn 6. High A skill that isn't made up of sub-routines and needs to be practised as a whole Organisational E.g. A cyclist completes the action of cycling in one go This skill is almost impossible to breakdown

#### Key Words:

Anabolic Steroids Beta Blockers Diuretics Narcotic Analgesics Stimulants

#### **Athletics**

#### Throws

- 1. Javelin, Shot Putt, Discus and Hammer are all throwing events.
- All throws have to land in a set area. If they do not land in this set area, then they will be classed as a foul.
- 3. The distances thrown are measured in metres.

#### **Jumps**

- These events require you to take off from one foot. If you take off from two feet, then your jump will be a foul.
- 2. High jump involves jumping over a high bar which is raised if you clear the bar.
- Long jump involves jumping as far as you can from one foot, behind the take off board.
- 4. Triple jump involves a three step process of 'hop, step and jump.'
- High jump, long jump and triple jump are all jump events.

#### **Sprinting**

- 1. The 100m, 200m and 400m are all sprint events.
- 2. All require athletes to remain in their own lane throughout the race.
- 3. The race starts by the official starter shouting 'Take your marks, set, go'
- 4. Triple jump involves a three step process of 'hop, step and jump.'
- 5. High jump, long jump and triple jump are all jump events.



#### Middle Distance

- 1. 800m and 1500m are called 'middle distance' events. You can change lanes in this event.
- 2. The race starts by the official started shouting 'take your marks, go.'

# **Drugs in Sport**

1 Stimulants	Affects the Central Nervous System (CNS)
2	Advantages: increases mental and physical alertness.
3	Side effects: High blood pressure, heart and liver problems and are addictive!
4	Sports: any sports where increased alertness is useful.
5 Narcotic Analgesics	Kills pain but could make injuries worse long term.
6	Advantages: avoid pain, can perform when injured.
7	Side effects: addictive with withdrawal symptoms, cause long term injury, low blood pressure and constipation.
8	Sports: any sports where masking pain is useful.
9 Diuretics	Acts as a 'masking agent' – flushes other drugs out.
10	Advantages: increases the amount you urinate – causes weight loss.
11	Side effects: dehydration due to fluid loss and cramps.
12	Sports: Weight division sports e.g. Boxing; Horse racing.
13 Beta Blockers	Drugs that control heart rate.
14	Advantages: they lower heart rate, steady shaking hands, relax and calming effects
15	Side effects: low blood pressure, nausea, tiredness, depression and heart failure.
16	Sports: archery
17 Anabolic Steroids	Allows you to train harder for longer.
18	Advantages: increases muscle mass, strength, power and bone growth
19	Side effects: infertility, high blood pressure, heart attacks, stroke à result in death!
20	Sports: athletics, weightlifting, boxing.

# CHRIST THE KING - KNOWLEDGE ORGANISERS

# Y7 RE – BIBLICAL LITERACY

	Key Words		
1	Ascension	Jesus' return to heaven after his resurrection	
2	Crucify	To kill a person by nailing them to a large wooden cross	
3	Garden of Gethsemane	The garden where Jesus was arrested	
4	Las Supper	Jesus' final meal with the disciples, where he predicts Peter's denial and Judas' betrayal	
5	Palm Sunday	The day Jesus entered Jerusalem on a donkey	
6	Pentecost	The day that the Disciples were filled with the Holy Spirit	
7	Prophecy	A prediction that something will happen	
8	Reconciliation	Repairing our relationship with God by accepting we have done wrong and asking for forgiveness	

Unit 3: Biblical Literacy New Testament – Jesus in Jerusalem









	and asking for forgiveness
	Key Quotes
1	he scattered the coins of the money-changers and overturned their tables. To those who sold doves he said, 'Get these out of here! Stop turning my Father's house into a market!' (John 2:15-16)
2	Saulbegan to preach in the synagogues that Jesus is the Son of God. All those who heard him were astonished and asked, 'Isn't he the man who caused havoc in Jerusalem among those who call on this name? And hasn't he come here to take them as prisoners to the chief priests?' (Acts 9:19-21)

$\overline{\Box}$	Key Facts
1	In the week before this death, Jesus rode into Jerusalem on a donkey and was greeted by crowds who put down palm leaves. Christians remember this on Palm Sunday.
2	The first three Gospel writers say that Jesus caused a disruption in the temple in the week leading up to his death, known as the 'cleansing of the Temple'. John places this story at an earlier point in Jesus' life.
3	According to the first three Gospels, Jesus ate a meal with his disciples the night before he died. He told them to eat bread and drink wine in remembrance of him. He also predicted that he would be betrayed Judas Iscariot and deserted by the other disciples.
4	Jesus was arrested in the Garden of Gethsemane by the Jewish authorities. The Jewish leaders could not kill Jesus themselves because they were living under Roman rule, so they accused Jesus of treason to Pontius Pilate, who sentenced him to death.
5	Jesus was mocked, tortured and killed by a method of called crucifixion. He dies with a sign above him saying 'King of the Jews'.  According to Luke, Jesus promised a criminal on a cross next to him that he would be ion paradise with him that day.
6	The Gospel writers have differing claims that after Jesus' death he was resurrected. Christians believe that Jesus' death and resurrection made it possible for sins to be forgiven and be reconciled with God.
7	The growth of the Christian Church after Jesus' death is recorded in the book of Acts. After being filled with the Holy Spirit on the day of Pentecost, the disciples spread the message about Jesus.
8	A Pharisee named Saul/Paul originally persecuted Christians, but he converted to Christianity following a dramatic experience on the road to Damascus. He is credited with writing 13 of the books of the New Testament, although biblical scholars disagree about

whether all 13 of them were actually written by him.

Key Words		
1	Allah	The Arabic word for God.
2	Ka'aba	A holy site in Mecca which Muhammad dedicated to God after destroying its 360 idols.
3	Mecca	A city in present-day Saudi Arabia; Muhammad was born here in 570CE.
4	Medina	One of the main cities in Arabia in the time of Muhammad (originally called Yathrib).
5	Mosquw	the place of worship for Muslims; it literally means 'place of prostration'.
6	Qu'ran	The holy book of Islam, which Muslims believe contains the word of God; it literally means 'recitation'.
7	Shirk	The Arabic word for the sin of worshipping anything other than God.
8	Tawhid	Belief in the oneness of God.

	Key Quotes
1	He is God: there is no other God than Him. It is he who knows what is unseen and what is seen, He is the Lord of Mercy, the Giver of Mercy (Qu'ran 59:22-23)
2	Those who believe and do good deeds will have an unfailing reward.  (Qu'ran 95:6-7)

# Unit 4 - Islam History and Belief





	Key Facts
1	Islam is a monotheistic religion so they believe in one God who created everything, has complete control over their lives and what happens to them after they die.
2	Tawhid is the believe that God is one – the most important belief.
3	Anything that goes against tawhid is shirk.
4	It has around 1.6 billion followers in the world, who are known as Muslims.
5	Muhammad, their last prophet, was born in 570CE and he founded Islam. Muslims believe in the other prophets in the Bible, including Abraham, Moses and Jesus, but they believe their messages were corrupted so God sent one final prophet, Muhammad.
6	God revealed the Qu'ran to Muhammad and it teaches Muslims how to live their lives – it is in Arabic. It was revealed to Muhammad on the Night of Power.
7	It's is split into 114 surahs and is believed to be the word of God so is treated with great respect
8	By the end of Muhammad's life he was the most influential man in Arabia. He had united warring tribes under Islamic rule and all of the polytheistic tribes had become Muslims, as well as some of the Jews.

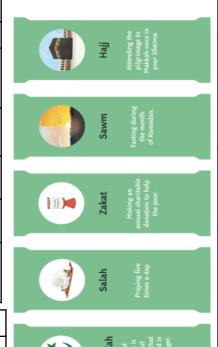


The crescent moon and star are the symbol of Islam and often feature on flags and mosques

		Key Words
1	Adhan	The call to prayer.
2	Eid ul-Adha	A four-day celebration in the final month of the Islamic calendar.
3	Eid ul-Fitr	A three-day celebration after Ramadan.
4	Ihram	A state of holiness or purity entered into by pilgrims before beginning Hajj pilgrimage to Mecca.
5	Jihad	Literally 'struggle'; this can be physical or spiritual.
6	Mihrab	An alcove in a mosque wall showing the direction of Mecca.
7	Salah	Prayers that Muslims must perform 5 times a day.
8	Shahadah	The Muslim declaration of faith – there is no god but God, and Muhammad is his messenger.

# La ilaha illa Allah, Muhammad rasul Allah. (Translation: There is no god but God, and Muhammad is his messenger) (The Shahadah) They ask you [Prophet] about fighting in the sacred month. Say, 'Fighting in that month is a great offence, but to bar others from God's path, to disbelieve in Him, prevent access to the Sacred Mosque, and expel its people, are still greater offences in God's eyes: persecution is worse than killing'. (Qu'ran 2:217)

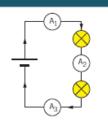
## Unit 4 - Islam In the Modern World



	Key Facts
1	There are 5 practices, known as the Five Pillars of Islam, that are central to life as a Muslim
2	The 1st and most important is the Shahadah (the declaration of faith)
3	The 2nd pillar is salah (prayer 5 times a day). In mosques, a muezzin gives the adhan from either inside the mosque or from one of the minarets so that people know it is time to pray. Muslims perform wudu (washing) before praying and pray facing the direction of Mecca
4	During the month of Ramadan, Muslims fast form sunrise to sunset. The 30 days of fasting are followed by a celebration called Eid ul-Fitr. Those who are ill, elderly, young, pregnant or travelling do not have to fast.
5	Hajj is a pilgrimage to Mecca that every Muslim tries to do once in their lifetime. Before arriving in Mecca, pilgrims enter the state of ihram and wear white cotton clothes. In order to become a hajji or hajja. Pilgrims must circle the Ka'aba, walk or run between the hills of Marwah and Safa, pray for forgiveness on Mount Arafat and stone Satan at Mina. Approximately 3 million Muslims go on hajj each year. The pilgrimage lasts for 5 days.
6	The question of whether Muslim women should wear a hijab, niqab, burqa or burkini causes much controversy, both within and outside Islam
7	The majority of Muslims view jihad (which means struggle) as a personal struggle to live a good life as a Muslim (the greater jihad). They condemn the views and actions of Islamic militants
8	5% of people in Britain are Muslims. They face a number of challenges including Islamophobia.

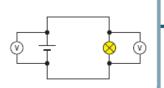
#### Current

- . Current is the amount of charge flowing per second
- . The charges that flow in a circuit are electrons, they are negatively charged
- Electrons leave the negative end of the cell and travel around the circuit to the positive end of the cell
- Current has the unit of Amps (A) and is measured with an ammeter (which is placed in series or in the main circuit)



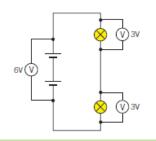
#### **Potential difference**

- Potential difference is the amount of energy transferred by the cell or battery to the charges
- The value of potential difference tells us about the force applied to each charge and then the energy transferred by each charge to the component which it passes through
- Potential difference has the unit of volts (V) and is measured with a voltmeter (which is placed in parallel to the circuit)



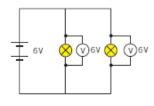
#### Series circuits

- Series circuits only have one loop
- If one component breaks, the whole circuit stops working
- Current is the same everywhere in a series circuit
- The total potential difference from the battery is shared between the components in a series circuit
- Adding more bulbs decreases the brightness of the bulbs



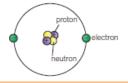
#### **Parallel circuits**

- Parallel circuits have more than one loop
- If one component breaks, the rest of the circuit will still work
- Current is shared between the different loops in the circuit
- The potential difference is the same everywhere in the circuit
- Adding more bulbs does not affect the brightness of the bulbs



#### The atom

- The atom consists of a central nucleus with electrons orbiting around the outside in shells
- Electrons have a negative charged
- Protons are inside the nucleus and have a positive charge
- Neutrons are inside the nucleus and have a neutral charge



#### Static electricity

- Static electricity is the caused by the rubbing together of two insulators
- This causes electrons to be transferred, leaving one object with a positive charge, and one object with a negative charge





Like charges will repel, opposite charges will attract





#### Resistance

- Resistance is a measure of how easy or how hard it is for charges to pass through a component in a circuit
- Resistance has the unit of ohms (Ω)
- Resistance is calculate by measuring potential difference and current and using the following equation:

resistance ( $\Omega$ ) =  $\frac{\text{potential difference (V)}}{\text{current (A)}}$ 

- Materials with a high resistance are said to be insulators
- Materials with a low resistance are said to be conductors

voltmeter

(P) Keyterms

Make sure you can write definitions for these key terms.

ammeter atom attract battery cell conductors current electrons electric charge

protons

resistance

potential difference

ctric charge insulator neutral neutrons parallel

Key word	Definition
Ammeter	A device to measure current
Atom	The particles all objects are made from
Attract	Opposite charges moving towards each other
Battery	A device that stores chemical energy and converts it to electrical energy
Cell	A single electrical energy source
Conductors	A material with a low electrical resistance
Current	The amount of electric charge flowing through the circuit per second
Electrons	Negatively charged particles
Electric charge	The force experienced when an object is placed in an electromagnetic field
Insulator	A material with a high electrical resistance
Neutral	No charge
Neutrons	Particles with no charge
Parallel	Electric circuits with more than loop
Potential difference	The amount of energy transferred by cell / battery to the charges
Protons	Positively charged particles
Repel	Similar charges moving away from each other
Resistance	A measure of how easy or difficult it is for charges to pass through a circuit
Series	Electric circuits with only one loop
Voltmeter	A device to measure potential difference

Retrieval question	Retrieval answer
What does a battery/cell do in a circuit?	Provides the push to make charges move
What is meant by the potential difference?	A measure of how much energy is transferred between two points in a circuit.
State what 3 things potential difference across a cell tell you about?	The size of the force on the charges, the energy transferred by the cell, the energy transferred by the charges to the components
Name the piece of equipment used to measure potential difference	Voltmeter
State the units of potential difference	Volts
What is meant by the rating of a battery/cell?	The potential difference it is designed to work at
State what is meant by resistance	How easy or difficult it is for charge to pass through a component
State the units of resistance	Ohms (Ω)
Give the equation for calculating resistance	Resistance ( $\Omega$ ) = potential difference (V) ÷ current (A)
Describe what the resistance is like for an electrical conductor	Resistance is low
Describe what the resistance is like for an electrical insulator	Resistance is high
Describe how components are arranged in a series circuit	In one loop
What happens to the rest of the bulbs if one breaks in a series circuit?	They all go out
Describe the link between the p.d between components and the pd across the battery in a series circuit  Describe how components are arranged in a parallel	The p.d. Across the components adds up to the p.d. Across the battery  Parallel to each other in different branches
What happens to the rest of the bulbs if one breaks in a parallel circuit?	They stay on providing they are on a different branch
Describe the link between the p.d between components and the pd across the battery in a parallel circuit	The p.d. Across each component is equal to the p.d. Of the battery
Describe what a current is	The amount of charge flowing per second
Name the piece of equipment used to measure current	Ammeter
Describe what happens to current in a series circuit	The current is the same everywhere
State the units of current	Amps (A)
State what happens to the current in a series circuit if you add more components	The current gets smaller because the resistance gets bigger
Describe what happens to current in a parallel circuit	The current in all the branches adds up to the total current
State what happens to the current in a parallel circuit if you add another branch	The total current increases
What are the two types of charge?	Positive (+) and negative (-)
What is the force called between charges?	Electrostatic force
What are the three parts of an atom called?	Proton, neutron, and electron
What charge does each part of an atom have?	Protons are positive, electrons are negative, and neutrons have no charge
State why atoms have no overall charge	They contain an equal number of protons and electrons
Describe how you can make an object positively charged, such as a balloon?	By rubbing the object against another object
State what an electric field is	The field around a charge
Describe what happens to the electric field strength as you move further away from a charge	It decreases

# Y7 SCIENCE - GENES

#### Variation

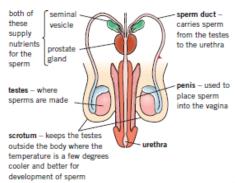
- The differences in characteristics of living things is known as variation
- There is a large amount of variation between different species, but within species many more characteristics are shared
- . Even though two organisms may look the same, they will always have variation between them

#### Inherited variation **Environmental variation** Is anything that comes directly from your . Is any type of variation that is caused by your parents, anything that you inherit Examples can include lobe less or lobed · Factors that can cause environmental variation ear lobes and eve colour include diet, education and lifestyle

- Environmental factors can also impact inherited factors, for example a poor diet can affect height or your exposure to the sun can affect
- Characteristics which are inherited and not affected by environmental variation include natural eye colour, blood group and genetic diseases

#### Reproductive systems

fallopian tube (oviduct) - where the egg travels to the uterus and may be fertilised iterus (womb) mature here the fetus develops here to uterus vagina – receives sperm during sexual intercourse

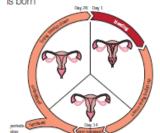


#### Adolescence

- Adolescence is the process in which a child changes into an adult, it involves both physical and emotional changes
- The physical changes alone in this time are known as puberty, these are caused by sex hormones

#### The menstrual cycle

- The menstrual cycle is the process in which an egg is released from an ovary and leaves through the vagina
- Day 1: blood from the uterus lining leaves through the vagina, which is known as a period
- Day 5: the bleeding stops and the uterus lining starts to re-grow
- Day 14: an egg is released from one of the ovaries during ovulation
- If the egg is fertilised than the menstrualcycle stops until the baby is born



#### **Adaptations**

- · Adaptations are characteristics which organisms have developed to best survive in their surroundings
- Organisms with the best suited adaptations can breed and pass these on
- Those who are not best adapted will die out and not be able to pass on their genes

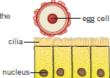
#### Fertilisation, implantation and gestation

. Egg cells and sperm cells are also called gametes, and each contains half the genetic information needed to form a complete organism.

#### Egg cells

An egg is released by the ovaries every month

The egg cell is moved along the oviduct towards the uterus by cilia

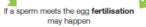


#### Sperm cells

Sperm cells are produced in the testicles/testes

Sperm are mixed with nutrients and fluid from the glands to form semen

During sexual intercourse a man will release semen into the vagina (eiaculation)



The fertilised egg may then implant in the uterus lining and form an embryo (ball of cells)

3 mm long 🥷

 During gestation the developing fetus needs nutrients from the mother, these are passed through the placenta which is connected to the fetus by the

3 cm long umbilical cord

 Nutrients are passed from the mother to the baby and waste products are passed back from the baby to the mother

Just a dot 1 week - cells beginning to specialise

4 weeks - spine and brain

forming, heart beating

9 weeks - tiny movements. lips and cheeks sense touch, eyes and ears forming

7 cm long

12 weeks - fetus uses its muscles to kick, suck, swallow, and practise breathing

 The baby is protected from bumps to the mother by the amniotic sac which acts as a shock absorber



Make sure you can write definitions for these key terms.

adaptation adolescence amniotic sac cervix cilia egg cell embryo environmental variation fetulisation fetus gamete gestation implantation inherited variation menstrual cycle ovary oviduct ovulation penis period placenta puberty reproductive system scrotum semen sex hormones species sperm cell sperm duct testicles umbilical cord urethra uterus vagina variation

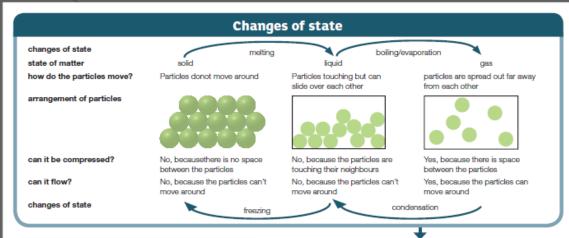
# CHRIST THE KING - KNOWLEDGE ORGANISERS

Keyword	Definition
Adaptation	Characteristics which organisms develop to best survive in their surroundings
Adolescence	The physical and emotional process of a child changing into an adult
Amniotic sac	A protective membrane filled with fluid that protects the foetus in the uterus
Cervix	The entrance to the uterus
Cilia	Tiny hairs on the surface of cells in the fallopian tubes
Egg cell	Female sex cell released from the ovary
Embryo	A ball of cells that can become a foetus
Environmental variation	Variation caused by the surroundings
Fertilisation	When a sperm cell joins with an egg cell
Fetes	The unborn offspring
Gamete	Egg cells and sperm cells
Gestation	
	The time required for the foetus to develop (aka pregnancy)
Implantation Inherited variation	The settling of the fertilised egg into the uterus
	Characteristics inherited from your parent's genes
Menstrual cycle	The process in which an egg is released from an ovary and leaves the vagina
Ovary	Part of the female reproductive system that holds and matures the egg cells
Oviduct	The tube the egg travels down to the uterus
Ovulation	When the mature egg is released from the ovary
Penis	Part of the male reproductive system that places sperm into the vagina
Period	The loss of blood and tissue from the uterus
Placenta	Provides nutrition to the developing foetus
Puberty	The physical changes during adolescence
Scrotum	Part of the male reproductive system that keeps the testes outside the body
Semen	The fluid that supplied the nutrients for the sperm
Sex hormones	Hormones involved in puberty and adolescence
Species	Individuals that can breed and produce fertile offspring
Sperm cell	The male reproductive cell
Sperm duct	Part of the male reproductive system which carries the sperm from the testes
Testicles	Part of the male reproductive system where sperm are made
Umbilical cord	Carries the blood from the mother to the foetus
Urethra	Part of the male reproductive system the tube that carries the semen out of the penis
Uterus	Part of the female reproductive system where the foetus develops
Vagina	Part of the female reproductive system which receives the sperm during intercourse
Variation	The differences between individuals of the same species

Retrieval Question	Retrieval Answer
What is meant by variation	Differences in characteristics
What is meant by species	A group of closely related organisms that are very similar to each other
What is meant by inherited variation	Characteristics that have come from their parents
List 3 examples of inherited characteristics	Eye colour, hair colour, nose shape (any sensible answers)
State what is meant by environmental variation	Characteristics that are affected by your surroundings
List 3 examples of environmental characteristics	Diet, education, lifestyle (any sensible answers)
State what is meant by continuous variation	A characteristic that can take any value within a range
Give an example on continuous variation	Height, body mass, hair length, arm span (any sensible answers)
What type of graph should be used to plot continuous data?	Histogram
State what is meant by discontinuous variation	Characteristics that can only result in certain categories
Give an example of discontinuous variation	Gender, blood group, eye colour (any sensible answers)
What type of graph should be used to plot discontinuous data?	Bar chart
State what is meant by the term adaptation	Features/characteristics that enable an organism to be successful, and so survive
Describe 2 ways animals are adapted to live in a desert	Large body heats up slowly, do not sweat, wide feet do not sink into sand, move around at night to feed, produce concentrated urine, and dry faeces
Describe 2 ways plants are adapted to live in a desert	Waxy layer covering the plant, large stems to store water, wide roots to collect water from a large area, spines instead of leaves to reduce water loss
Give 2 advantages of trees losing their leaves in winter	Saves energy, provide a layer of warmth and protection around the base of the tree, reuse nutrients from the leaves
State 3 ways that different animals adapt to the winter	Hibernation, migration, grow thicker fur
Retrieval Question	Retrieval Answer
State what is meant by adolescence	The time during which you change from a child to an adult
State what is meant by puberty	Physical changes to your body
Give 3 examples of changes that only happens to boys during puberty	Voice breaks, testicles and penis get bigger, testicles produce sperm, shoulders widen, hair grows on face and chest
Give 3 examples of changes that only happens to girls during puberty	Breasts develop, ovaries release eggs, periods start, hips widen

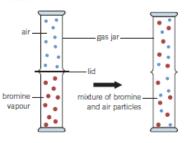
Retrieval Question	Retrieval Answer
What are sex hormones?	Chemical messengers that travel around your body in the blood
State the function of the male reproductive system	To produce sperm cells
Describe the function of the; testes, sperm duct, urethra, and penis	Testes - produce sperm and sex hormones, sperm duct - carry sperm from the testes to the penis, urethra - carries urine and sperm, penis - allows the male to release sperm into a female, carries urine or semen
State the function of the female reproductive system	To produce egg cells
Describe the function of the; ovaries, oviducts, uterus, cervix, vagina	Ovaries - contain egg cells/releases them, oviducts - carry an egg to the uterus, uterus - where a baby develops, cervix - a ring of muscle that keeps the baby in place in the uterus, vagina - receives sperm
State what is meant by the gametes	Reproductive cells (male - sperm cell, female - egg cell)
State what is meant by fertilisation	The nucleus of the sperm and the nucleus of the egg join together
Describe how an egg travels along the oviduct	Tiny hairs called cilia move the egg down the oviduct to the uterus
State what happens during sexual intercourse	The male places the penis in the vagina and sperm are released
Describe how sperm cells travel to the egg	Sperm swim from the vagina, through the cervix and into the uterus
State what happens during implantation	The embryo attaches to the uterus
Give one cause of infertility in males and females	Males - low sperm count, females - eggs not being released, blocked fallopian tubes
State what is meant by gestation	The time from fertilisation until birth
Give 2 things that a foetus needs to grow	Nutrients and oxygen
Describe the function of the; placenta, umbilical cord, amniotic fluid	An organ where substances pass between the mother's blood and the foetus
Describe how a baby is born	The mother's cervix relaxes, muscles in the uterus contract gradually pushing the baby out of the vagina $$
State the approximate length of the menstrual cycle	28 days
Describe the stages of the menstrual cycle	Bleeding (menstruation), uterus lining builds up, egg released, lining breaks down
State what is meant by ovulation	The release of an egg from the ovaries
Name two different methods of contraception	Condoms, contraceptive pill

# Y7 SCIENCE - MATTER



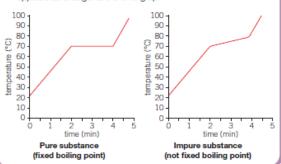
#### Diffusion

- Diffusion is the movement of particles from an area of high concentration (lots of the same particle) to an area of low concentration (not a lot of the same particle)
- · It is a random process which does not need energy
- . The speed of diffusion can be increased by:
  - A higher temperature
  - Smaller particles diffusing
  - · A gas rather than a liquid
- Diffusion does not happen in a solid as the particles can't flow



#### Melting and boiling points

- The melting point of a substance is the temperature at which it turns from a solid to a liquid, or a liquid to a solid
- The boiling point of a substance is the temperature at which it turns from a liquid to a gas or a gas to a liquid
- Pure substances have a fixed (sharp) boiling or melting point, whereas impure substances have a range which appears as a diagonal line on a graph



#### **Mixtures**

- Mixtures are different substances which are together, they are not chemically bonded and so are easy to separate
- . The substances which make up a mixture keep their own properties unlike those in a compound
- A mixture is an impure substance as it does not have a fixed melting point, instead it has a range
- . A solution is a type of mixture which is made up of two parts
- A solute is the part which has dissolved in the solution
- · A solvent is the liquid part which the solute has dissolved into
- . The solubility of a substance is a measure of how much of it will dissolve
- Not all solutes will dissolve in all solvents
- Solutes which do not dissolve are known as insoluble
- Substances which do dissolve are known as soluble
- The solubility of a substance can be increased by increasing the temperature of the solution or by stirring the solution
- A saturated solution is one where the maximum amount of solute has dissolved in it, no
  more solute will be able to dissolve

#### **Separating Mixtures** Filtration Chromatography residue (sand) position of solute conical flask filtrate (water) starting Distillation Evaporation evaporating hasin thermometer condenser -beaker salty water-



Make sure you can write definitions for these key terms.

diffusion boiling point chromatography condensation distillation evaporation impure substance melting point mixture properties pure substance saturated solution soluble solubility solution solvent property substance

Keyword	Definition
Boiling point	The temperature a liquid turn into a gas
Chromatography	The technique for the separation of mixed substances in a solution
Condensation	When a gas cools and forms a liquid
Diffusion	The movement of particles from an area of high concentration to an area of low
	concentration
Dissolve	When a solid disappears into a liquid
Distillation	The technique of separation of a mixture of liquids
Evaporation	When a liquid is heated and forms a gas
Filtration	The technique of separating a solid and a liquid
Freezing	When a liquid cool and forms a solid
Impure substance	2 or more elements or compounds not chemically joined
Melting point	The temperature a solid turn into a liquid
Mixture	Different elements or compounds that are not chemically joined
Property	A characteristic or behaviour of a substance
Properties	A group of characteristics or behaviours of a substance
Pure substances	A substance made up of just 1 chemical element or compound
Saturated solution	A solution that cannot dissolve any more solute (solid)
Substance	Any element, compound, or mixture
Soluble	The property of dissolving
Solubility	The measurement of how much substance will dissolve in a given volume of liquid
Solute	The solid that is dissolved into a solution
Solution	The solid and liquid mixture. It consists of the solute and the solvent
Solvent	The liquid part of a solution

What are all materials made up of?	
	Particles
What is meant by a substance?	Something that is made up of one type of material
ty of a substance depend on?	What its particles are like, how the particles are arranged, how its particles move around
	How much matter there is in a certain volume/how heavy it is for its size
as a higher density than aluminium.	A gold particle has a greater mass than an alumnium particle
	Solid, liquid, gas
gas?	Gas - yes, solid + liquid - no
	Gas + liquid - yes, solid - no
iquid/gas?	Solid - particles touch each other, arranged in a pattern, liquid - particles are not as closely
	packed, particles move around randomly, gas - particles are widely spaced, move around randomly
Why can you compress a gas and not a solid or liquid?	Particles are widely spaced out in a gas, particles touch each other in a solid
	Particles move randomly in a liquid, particles vibrate in a solid
	Solid to liquid
What change of state happens during freezing?	Liquid to solid
nanges during melting	Particle movement increases, energy of particles increases
	Particle movement decreases, energy of particles decreases
	The temperature at which a substance melts
What change of state happens during boiling?	Liquid to gas
changes during boiling	Particle movement increases, energy of particles increases
	The temperature at which a substance boils
	When particles with the most energy leave the liquid state
between evaporation and boiling?	Evaporation - happens at any temperature, boiling - happens only at the boiling point
What is condensation?	Gas to liquid
What is sublimation?	Solid to gas
What is diffusion?	When particles in liquids and gases spread out
List three factors that affect the speed of diffusion?	Temperature, particle size, the state of the diffusing substance
How does temperature affect the speed of diffusion?	At higher temperature, diffusion happens more quickly
	The bigger the particle, the more slowly it diffuses
luids?	Darticles are far apart and travel a long way hefers hitting another particle
	raticles are fail abancation days a folial method allocates particle
ffect gas pressure?	The force gas particle exert when they collide with a container
	The force gas particle exert when they collide with a container  The greater the number of particles, the higher the gas pressure
State what an element is	The force gas particle exert when they collide with a container  The greater the number of particles, the higher the gas pressure  The greater the temperature of particles, the higher the gas pressure
	The force gas particle exert when they collide with a container  The greater the number of particles, the higher the gas pressure  The greater the temperature of particles, the higher the gas pressure  A susbtance that cannot be broken down into other substances
	The force gas particle exert when they collide with a container The greater the number of particles, the higher the gas pressure The greater the temperature of particles, the higher the gas pressure The greater the temperature of particles, the higher the gas pressure A susstance that cannot be broken down into other substances A group of two or more atoms joined together

Retrieval Question	Retrieval Answer
State what is meant by a pure substance	Contains one substance only/not mixed with anything else/particles are all the same
State what is meant by a mixture	Contains two or more substances, which could be elements or compounds
Name four common examples of mixtures	Air, seawater, rocks, foods (any sensible answers)
What is the melting point like for a pure substance?	A pure substance has a fixed melting point
What is the melting point like for an impure substance?	An impure substance melts across a range of temperatures
State what a solution is	A mixture of a liquid with a solid or gas in it
State what a solute is. Give an example	The solid dissolved in liquid, e.g. Salt, sugar (any sensible answers)
State what a solvent is. Give an example	The liquid that dissolves the solid, e.g. Water, alcohol (any sensible answers)
Describe what happens to particles when they dissolve	Water particles surround each solid particle
Can gases dissolve?	Yes (most)
State the menaing of the term saturated solution	A solution that cannot dissolve any more solid/solute
State what is meant by solubility?	The maximum mass of solute that dissolves in 100g of water
How does temperature affect solubility?	The higher the temperature, the greater the mass of solute that will dissolve
What does a solubility curve show?	How much solid can dissolve in a solvent across a range of temperatures
What type of mixture is filtration used for?	An insoluble solid from a liquid
What is a filtrate?	The solution that passes through filter paper
What is a residue?	The solid that remains in the filter paper
State 2 uses of filtration	Making coffee, river water (any sensible answers)
Describe how filtration can be used to separate sand from salt water	Add water to the mixture, stir to dissolve the salt, pour into a filter paper funnel, salt solution
	passes through, the residue is sand
Describe how evaporation can be used to separate salt from sea water	Heat the solution, water evaporates, the salt remains
State 2 uses of evaporation	Glue drying, making cyrstals (any sensible answers)
Describe how distillation uses boiling and condensing to separate water	Heat the solution, water boils leaving the solution as steam, steam travels down a condenser
from salt water	and cools down, steam condenses to form liquid water
State the difference in properties that allows you to separate water and	Salt has a higher boiling point than water
salt using distillation	
What is chromatography used for?	Separate a mixture of dyes
Describe how chromatography can be used to separate a mixture of	Place the substance on chromatography paper, lower into a beaker containing a solvent,
substances	allow the solvent to travel up the paper, dry the chromatogram
Why do some substances travel further up the paper than others?	Some substances mix better with water/some substances are more strongly attracted to the
	paper
State what a chromatogram is	The mixture separated on the paper
State 2 lises of chromatography	Senarate colours in a dve lidentify nutrients in food (any sensible answers)

# Y7 SCIENCE - REACTIONS

#### **Chemical reactions**

- A chemical reaction is a change in which atoms are rearranged to make new substances
- A reversible reaction is one where the products can react to get back the substances which you started with, most chemical reactions are not reversible
- You can look for signs that a chemical reaction has taken place such as flames, smells, heat change, a loud bang or gentle fizz

#### Acids and alkalis

- · Acids and alkalis are the chemical opposites of one another
- Both acids and alkalis can be corrosive and irritants

To see whether a substance is an acid or an alkali, we can use an indicator. Indicators show how acidic or how alkaline a solution is by showing its position on the pH scale, one example of this is universal indicator

- If the solution has a pH value of 1-6 it is acidic
- If the solution has a pH value of 8–14 it is alkaline
- If the solution has a pH value of 7 it is known as neutral

4	Strong	acid		We	eak acid	d	Neutral	Wei	<b>åå</b> ak alka	li			Stron	g alkali
	1	2	3	4			7	8	9	10	11	12	13	14
	sulfuric acid, nitric acid, hydrochloric acid	lemon juice cola drinks	vinegar		saliva tea		water blood (7.4)		toothpaste milk of magnesia				drain dæner	sodium hydroxide potassium hydroxide

#### **Acid strength**

- . The strength of an acid depends on how much of the acid has broken apart when it has dissolved in water
- Hvdrogen chloride dissolves in water to form hydrochloric acid, this is a strong acid as all of the particles split up
- . A weak acid will have particles that do not all split up

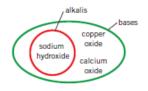




- The concentration of the acid is the amount of acid which has dissolved in 1 litre of water
- . The more concentrated the acid, the lower the pH

#### **Neutralisation**

- Neutralisation reactions are any reaction in which acids react with a base to cancel out the effect of the acid
- · These reactions form a neutral solution with a pH of seven
- · A base is any substance which neutralises an acid
- An alkali is a base which has been dissolved in water



#### Salts

Salts are substances which are formed when an acid reacts with a metal or metal compound

Different acids form different types of salts:

- Hvdrochloric acids form chloride
- Sulphuric acids form sulphates
- Nitric acids form nitrates

#### Metal reactions

When a metal reacts with an acid it will produce a salt and hydrogen gas, the fizzing that you see is the hydrogen gas being given off

> metal + acid → salt + hydrogen magnesium + hydrochloric acid → magnesium chloride + hydrogen

When a metal reacts with oxygen a metal oxide is formed, this process is known as oxidation

> metal + oxygen → metal oxide aluminum + oxygen → aluminum oxide

- When a metal reacts with water it forms a metal hydroxide and hydrogen gas.
- The alkali (group 1) metals react most vigorously, giving off a brightly coloured flame

metal + water → metal hydroxide + hydrogen sodium + water → sodium hydroxide + hydrogen

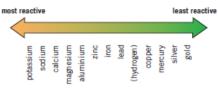
When a more reactive metal reacts with a compound containing a less reactive metal, it can take it's place, this is known as a displacement reaction



- If the metal on it's own is higher in the reactivity series than the metal in the compound a reaction will take place
- . If the metal on it's own is lower in the reactivity series than the metal in the compound, a reaction will not take place

#### The reactivity series

- The reactivity series describes how reactive different metals are compared to one another
- The higher the metal is in the reactivity series the more reactive it will be this means that it will react much more vigorously



Make sure you can write definitions for these key terms.

acid

acidic alkaline

neutralisation

base

oxide

chemical oxidation

chemical reaction pH scale reversible

concentration reactivity

concentrated reactivity series corrosive

strona acid

displacement

hydroxide universal indicator

indicator

weak acid

irritant neutral

Keyword	Definition
Acid	A solution with a pH value less than 7
Acidic	A solution with a pH between pH1 and pH6
Alkali	A soluble base
Alkaline	A solution with a pH between pH8 and pH14
Base	Any substance which neutralises an acid
Chemical	A substance obtained by a chemical process
Chemical reaction	A change in which atoms are rearranged to create new substances
Concentration	The amount of substance dissolved in 1 litre of water
Concentrated	A solution with many solute particles per litre
Corrosive	A substance that can burn
Displacement	When a more reactive metal reacts with a compound containing a less reactive metal
Hydroxide	An ion containing hydrogen and oxygen
Indicator	A chemical used to identify substances as either acid or alkaline
Irritant	A chemical that makes the skin or eyes itch
Neutral	A solution of pH 7
Neutralisation	Reactions in which an acid reacts with a base to reach pH 7
Oxide	A substance which contains oxygen
Oxidation	A chemical reaction in which a substance combines with oxygen
pH scale	A measurement of a substance being acid, alkaline or neutral
Reversible	A change in which it is possible to get back to the original substances
Reactivity	The likelihood of a substance undergoing a chemical reaction
Reactivity series	A list of metals showing how different metals are compared to one another
Salt	A salt is a compound in which the hydrogen atoms of an acid are replaced by atoms of a metal
Strong acid	An acid in which all the acid particles split up when it dissolves in water
Universal indicator	A chemical which reacts with acids and alkalis to give a colour change
Weak acid	An acid in which only some of the acid particles split up when it dissolves in water

# Y7 SCIENCE - REACTIONS

Retrieval Question	Retrieval Answer
State what a chemical reaction is	A change in which atoms are rearranged to make new substances
Describe 3 pieces of evidence that suggest a chemical reaction is	Flames or spark, smell, substances get hotter/colder, fizzing/bubbling
Name 3 useful materials made in chemical reactions	Medicines, fabrics, building materials (any sensible answers)
Give examples of two types of physical change	Melting (any change of state), dissolving
List the chemical names of 3 acids	Hydrochloric, nitric, sulfuric
State two hazards of using a corrosive solution	Burns skin and eyes
State two hazards of using an irritant solution	Swelling and redness (itching)
What is meant by a concentrated solution?	A solution that has lots of particle per litre
What is meant by a dilute solution?	A solution that has few particles per litre
State what an indicator is	A dye that turns different colours in acid and alkaline solutions
Describe the colour change of blue litmus when it is added to an acid	Red
Describe the colour change of red litmus when it is added to an acid	Red
State what the pH scale is	A measure of how acidic or alkaline a solution is
State what pH numbers (and colours) correspond to; strong acids, weak acids, strong alkalis, weak alkalis	Strong acids - 0-3, weak acids - 4-6, strong alkalis - 11-14, weak alkalis - 8-10
Name 3 strong acids and 2 weak acids	Strong - hydrochloric, nitric, sulfuric, weak - ethanoic (acetic), citric
Describe the difference between a strong acid and a weak acid	All particles split up (ionise) in a strong acid, only a few particles split up in a weak acid
What is meant by a concentrated acid?	Lots of acid particles per litre
What is meant by a dilute acid?	Few acid particles per litre
Describe what happens during a neutralisation reaction	An acid reacts with a substance that cancels it out, the pH goes to 7
State the difference between an alkali and a base	Base - a substance that neutralises an acid and is insoluble, alkali - soluble base
Describe a method for making a neutral solution from an acid and an alkali	Measure a specific volume of acid, add indicator, slowly add alkali until the pH reaches 7
State 2 examples of where neutralisation reactions are useful	Neutralising soil or lakes (any sensible answers)
Retrieval Question	Retrieval Answer
Donath a what a rolt is	A sub-trans that forms in a shareful constitute between an arid and a south

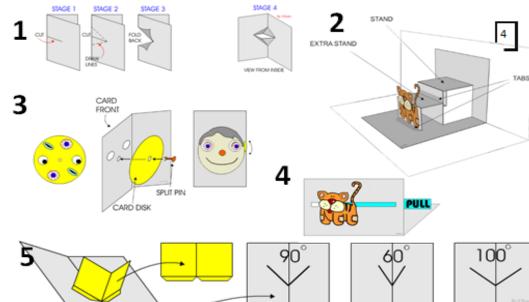
Retrieval Question	Retrieval Answer
Describe what a salt is	A substance that forms in a chemical reaction between an acid and a metal (compound)
State the products formed when an acid reacts with a metal	Salt + hydrogen
State the products formed when an acid reacts with a base	Salt + water
What salts does nitric acid make?	Nitrate
What salts does hydrochloric acid make?	Chloride
Describe a method for making and separating a salt from the reaction of an acid and a hase	Add a base to an acid until no more reacts, filter to remove the unreacted base, heat the solution to evaporate most of the water, leave to crystallise
State what an element is	A substance that contains just one type of atom
What is the periodic table?	A list of all the elements grouped together with similar properties
State the name of 3 magnetic elements	Iron, cobalt, nickel
State the name of the only liquid metal and liquid non-metal	Liquid metal - mercury, liquid non-metal - bromine
Describe 5 properties of metal elements	Good conductors of electricity, good conductors of heat, shiny, high density, malleable
Describe 5 properties of non-metal elements	Poor conductors of electricity, poor conductors of heat, dull, low density, brittle
What is the difference between a chemical and a physical property?	Chemical properties - describe chemical reactions, physical properties - describe things you can observe and measure without changing the material
Describe two differences between metal and non-metal oxides	Metal oxides - most are solids, most are bases, non-metal oxide - most are gases, most are acids
State what is meant by a reactant?	The starting substances in a chemical reaction
State what is meant by a product?	The substances that are made in a chemical reaction
State the product formed when a metal reacts with oxygen	Metal oxide
Describe what happens during an oxidation reaction	A substance reacts with oxygen to make an oxide
Name the products formed when an acid reacts with a metal	Salt + hydrogen
Name the salt made when sulfuric acid reacts with a metal	Sulfate
List the metals in order of most reactive to least; copper, silver, gold, magnesium, iron, lead, zinc, platinum	Magnesium, zinc, iron, lead, copper, silver, gold, platinum

# CHRIST THE KING - KNOWLEDGE ORGANISERS

	Paper Manufacture	1
1	Trees chopped down and logs put into a rotating drum to remove the bar	k
2	Wood is then put through the chipper to make wood chips. Sometimes these are taken from unused offcuts from sawmills. This saves waste	
3	Mixed with chemicals and water to create pulp	
4	Pulp is washed and bleach is added to make it white	
5	Dyes can be added to colour the pulp for coloured paper	
6	Pulp is put through big rotating drums. These flatten the pulp into paper and remove moisture through pressure and heating the pulp	

	Key Words—Graphics
Product	Something that is designed and manufactured usually to sell
Lignin	Organic polymers that help form structures in plants. The make plants and trees more rigid
Pulp	Broken down wood chips. With the lignin dissolved it is now soft and fibrous
Paper machine	A continuously running series of manufacturing processes that turns pulp into paper
Product Analysis	Exploring existing products for inspiration and to consider what to avoid. It helps with the designing process
Dimensions	Measurement of something. Width, height, depth
Design Brief	A description of what is required from a new project or prod- uct. What it should do, who it is aimed at, how long it will take, etc.
Score	The process of making a crease in <b>paper</b> so it will fold easier. This can be done using a craft knife, ruler or a metal edge
GSM	Paper is measured in grams. <b>GSM</b> stands for grams per square meter.

		Paper/ card mechanisms 3
1	Pop up	a pop up feature that fits on the crease of the paper/ card. Often used to create mouths for characters
2	Stand	A feature that creates a stand across a crease in the paper/ card. Design features are usually added to it so they stand out
3	Rotating	A disk that rotates, usually used in conjunction with a window cut into a piece of card that goes over the disk. A split pin secures the two pieces together
4	Sliding	a moving component that moves across the page with the use of a slide bar
5	V-Fold	A feature that stands up from the page. V folds have to be created on the crease of the paper
6	Spring	A feature that uses two strips of paper that are overlapped to create a spring. A design feature is usually placed on top of the spring



If a 90 degree angle is used the card will

stand up vertically

when the backing

card is opened.

If a 100 degree angle is used the

forwards from the

back when the

backing card is

card will lean

If a 60 degree angle is used the card will

lean towards the

back when the

backing card is

opened.

<u>Key topics:</u> Health and Safety, Safety Signs, Plastics, Tools and Materials, Woods, Metals, Processes, Marking out, measurement, Cutting out, Shaping, Wasting And Finishing

#### 1. Key Vocabulary & Definition

Health & Safety	Keeping yourself and others safe when using	
	tools and equipment	
Thermoplastic	A polymer that has a memory and can be	
	reshaped when heated	
Thermosetting	A polymer that is heat resistant, once shaped it	
plastic	cannot be reformed	
Hardwood	From deciduous tree. They are slow growing and	
	more expensive	
Softwood	From coniferous trees or evergreen trees that is	
	fast growing. They have pines and cones.	
Manufactured	Sheet materials manufactured from layers or	
board	particles of wood – MDF, Plywood and chipboard	

Processes		
Wasting	Method used to remove and shape material	
	through sawing, drilling, filing, laser cutting etc	
Draw Filing	Method used to remove scratches from the	
	acrylic	
Cross Filing	Method used to smooth the edges of the acrylic	
Wet and Dry	An abrasive paper used with water to shape and	
	finish the edge of the acrylic	
Finishing	Adding polish or finish to material to enhance,	
	protect or preserve materials.	

#### 2. Health and safety

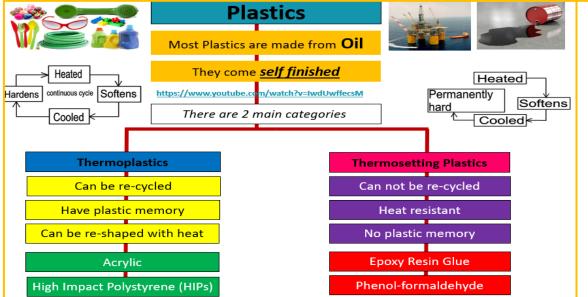


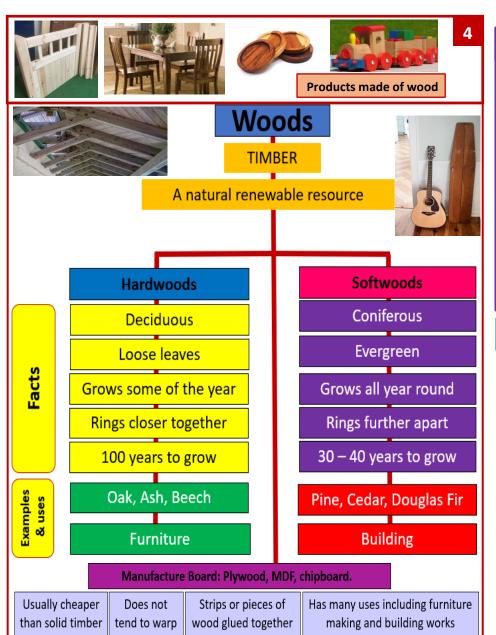
#### Example of rules in the workshop

- 1. Always listen carefully to the teacher and follow instructions.
- **2**. Know where the emergency stop buttons are positioned.
- 3. Always wear an apron.
- **4**. When attempting practical work all stools should be put away.
- **5**. Report any damage to equipment as this could cause an accident.
- **6**. Ask questions, especially if you do not fully understand.
- **7**. Do not use a machine if you have not been shown how to operate it safely by the teacher.
- **8**. Always be patient, never rush in the workshop.
- 9. Always use a guard when working on a machine.
- **10**. Use tools carefully. Keep hands away from moving / rotating machinery.
- 11. keeping both hands behind the cutting edge.

#### 3. Plastics

Most plastics are made of **fossil fuels**. Crude oil and natural gas go to refinement to be turned into multiple different products. Including ethane from crude oil and propane from natural gas.





### 5. Workshop Tools



A Coping Saw
Used to cut out more detailed shapes in wood.



A Junior Hacksaw
A fine-toothed saw used to cut metal
and plastic. It is a smaller version of
the regular hacksaw.



A Tenon Saw

A Tenon Saw is used for cutting straight lines in timber known as tenons.



#### A File

A file is used to remove material from a piece of wood, plastic or metal, it can be flat, rectangular, square, triangular round or half rounded in shape.



#### A Bench Hook

A bench hook is hooked over the edge of a workbench or secured in a workbench vice. Use to hold your work in place when cutting, preventing your work from slipping.



#### A Try Square

A try square is a woodworking tool used for marking and checking 90° angles on pieces of wood.

#### 6. Materials and their Characteristics

WOOD	ТҮРЕ	CHARACTERISTICS	
Pine	SOFTWOOD	Easy to work with, reasonably strong and light weight. Straight grain with lots of knots.	
Plywood	MANUFACTURED BOARD	Alternate layers of wood are glued together at 90 degrees to each other. Very strong, outside finished with a high quality veneer.	
Medium Density Fiberboard	MANUFACTURED BOARD	Woodchips are broken down into a pulp, mixed with glue and compressed. It has a smooth surface, which makes it easy to paint and finish.	
PLASTIC	ТҮРЕ	CHARACTERISTICS	
Acrylic	THERMOPLASTIC SHEET	Hard, shiny and resistant to weathering but scratches easily.	

#### Year 7 - Food Preparation and Nutrition:

A healthy balanced diet

<u>Key topics:</u> The Eatwell guide, the 4 C's, nutrients, knife skills, using the oven and hob, combining ingredients, shaping, forming, testing for readiness, weighing and measuring, washing up and clearing away.

#### 1 The 4 C's Cooking Chilling Cleaning Cross Contamination Cooking kills Cleaning kills Chilling Bacteria is transferred bacteria. bacteria. from one object to prevents microbial another. Food needs Wash hands before. growth. during and after to be heated Keep raw and cooked food preparation. till steaming food separate. Cool food to Never wash raw meat. hot with the below 5\*C as Wash all work tops, core utensils, chopping quickly as Keep raw meat and temperature possible. shellfish on the boards and reaching bottom shelf of the equipment. 75\*C for 30 Defrost food in fridge. seconds. Rinse fruit, salad the fridge. and vegetables.

# 3 Basic knife skills





- Ensure you don't hurt yourself or others.
- · Use a firm grip and even pressure.
- Always cut down towards the chopping board, never cut towards yourself.
- Carry a knife with the point facing downwards.
- Don't touch the knife blade.
- Always put a knife down, don't hand it to someone else.
- Never leave your knife soaking in the washing up bowl.
- · Never catch a falling knife.
- Always hand your knife back in at the end of the lesson.

2 Preparing for a practical





Peeler

Vegetable knife

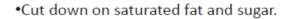
Cooling rack

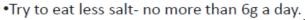
# 8 tips for a healthy lifestyle.

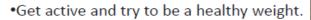




- ·Base your meals on starchy foods.
- •Eat lots of fruit and vegetables.
- •Eat more fish.







- •Drink plenty of water.
- •Don't skip breakfast.









6 Key Terms		
Keywords	Definition	
Cross contamination	When bacteria is transferred from one object to another.	
Diet	The type of foods that a person eats. Some people have special diets depending on their age or needs.	
Nutrients	Nutrients are chemical compounds in food that are essential for the body to function properly and maintain health.	
Macro nutrients	These are nutrients that are needed by the body in large quantities; they are Carbohydrates, Proteins and Fats.	
Micro Nutrients	These are nutrients that are needed by the body in small amounts; they are vitamins and minerals.	
Health	This defines your physical wellbeing. Good health indicates that you are free from illness.	
Enzymic browning	an oxidation reaction that takes place in some foods, mostly fruit and vegetables, causing the food to turn brown.	

	7 Nutrients		
Nutrient	Function	Food sources	
Carbohydrate	This is the primary source of energy.	Bread, pasta, rice and potatoes.	
Fat	This is used as a secondary source of energy. It helps to insulate the body and maintains brain function.	Meats, cheese, butter, oils, nuts and seeds.	
Protein	The bodies building block. Helps the body to grow and repair itself.	Nuts, eggs, fish, meat, beans and pulses.	
Vitamins	There are many different vitamins and they play a vital role in keeping skin, eyes, hair and blood healthy.	Fruits and vegetables, meats, dairy, eggs, cereals, sunlight etc.	
Minerals	Minerals help your body grow, develop and stay healthy. They help build strong bones, teeth, blood and nervous systems.	Dairy, vegetables, fish, meat, cereals etc.	
Fibre	Prevent constipation, Increase the feeling of fullness, reduce the risk of heart disease, diabetes and some cancers	Wholegrain cereals, fruits and vegetables.	
Water ONE OF THE PROPERTY OF T	it is a <b>lubricant</b> for joints and eyes; it is the main component of sa <b>liv</b> a; it helps get rid of waste; it helps regulate body temperature.	Juice, fruit, vegetables, soup, smoothies.	



# CHRIST THE KING - KNOWLEDGE ORGANISERS Y7 D&T - FABRICS AND FIBRES

# Year 7 Fibres and Fabrics

Key word Definition			
Fibre A fibre is the smallest element of a fabric; it looks like a human hair.			
Fabric	Textile fabrics are woven or knitted from <b>yarn</b> , which is made from <b>fibres</b> :		
Woven Fabric which constructed by interlacing to yarns at right angles to each other  Natural Fibre Natural fibres are from plants and animal Synthetic Fibre Man-made fibres, such as those made from oil  Knitted Fabric which is constructed using interlocations			
		Printing Technique	Fabric printing is a fun way to add colour and pattern to the surface of textiles
		Renewable	They are replaced by new growth
		Sustainable	They are replaced at a rate equal to or greater than the rate at which they are used)
Biodegradable They decompose/rot			

Fibres come from several sources and can be either:

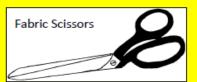
Maturai	Plants – Cotton and Linen Animals - Silk and Wool	sustainable and biodegradable
Synthetic	Manmade/ manufactured) From fossil fuels (coal, oil and gas). Nylon, Polyester, acrylic	Cannot be replaced, do not decompose and contribute to environmental problems if they end up in landfill.

	Fibre	Source	Used for	2
	Cotton	grows in hot climates, on bushes from seeds. When the seeds ripen they split open to reveal fluffy white cotton.	Products made from cotton include jeans, blouses, T-shirts, sheets and towels	-
plant. The plants have a straight stalk with blue flowers, and are grown mostly in Europe  Silk is made from the cocoon larvae of the silkworm, and was first developed in China.  Wool is taken from the coats of sheep and other animals, such as goats, alpacas and even rabbits!  Nylon is made by combining chemical taken from coal, water, air, petroleum, natural gas and agricultural by-		plant. The plants have a straight stalk with blue flowers, and are grown	Products made from linen include towels, table cloths and summer clothing.	tea
		silkworm, and was first developed in	The fabric is smooth, soft texture a is one of the strongest natural fibre	
		other animals, such as goats, alpacas	It is used for clothing, suits, blankets and furniture upholstery. However wool can shrink and is not as durable as cotton or silk.	
		from coal, water, air, petroleum, natural gas and agricultural by-	Nylon is lightweight, strong, durable and resistant to damage. Nylon is u to make swimwear, umbrellas and waterproof bags.	ısed
	Polyester	comes from crude oil. When made into fabric, it tends to feel slippery and silky. Some polyester is blended with other fabrics to provide more stretch, or to reduce skin irritation.	Polyester is used to make shirts, jackets and furnishings.	

#### Equipment









# **Year 7 ICT Knowledge Organiser**

#### Logging on

USERNAMES these begin with 20 followed by First Name Initial and then Surname. Bob Smith would be 20bsmith

Strong Passwords are usually more than 8 characters with a mixture of uppercase, lowercase letters, numbers and symbols. They should be changed frequently. You should never share passwords.

ONE DRIVE is where you save all your personal documents at Christ the King. You can access this using your email address to login to Office.Com.

#### Email Address example:

20bsmith@christtheking.notts.sch.uk

Sending Email we use Outlook at CtK to send Emails. You should type an email address into the To: field. If you want to send a copy of the message to another person use the CC: field – this stands for CARBON COPY. If you do not want anybody to know you are sending a person a copy you should use the BCC – Blind Carbon Copy box. You can use the High Importance button to mark your message as important.

#### **Key Vocabulary**

**Personal Data** – data that can be used to identify an individual. This could be Name, date of birth or home address.

Spam – irrelevant or unwanted emails or messages, usually sent to a lot of people. Normally used for advertising or spreading harmful programs. To reduce spam, tick the 'do not share my email box' on forms.

Identity Theft is when somebody pretends to be you using your person information, usually stolen online or through theft. Thieves may set up bank accounts and credit cards in your name.

**Geo Tagging** is when your location is tagged in social media posts or saved to a picture when you take it. Posting your location can be dangerous.

Phishing is when somebody pretends to be somebody you trust, usually in an email and asks for information which will help access your accounts or steal your identity. You should always check emails asking for information to see if they are trustworthy.

**Firewall** – security software preventing unauthorised access to a computer.

**Anti Virus** – Software that scans and removes malicious/harmful software on your computer.

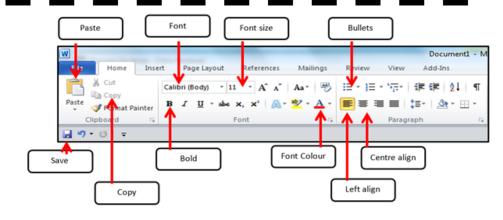


#### Microsoft Teams

At CTK we use Microsoft Office Teams in class, for assignments, and to connect with students. You can also download the 'Teams' app on your desktop or phone,

then use your **School email** and **password** to sign in to access it.

Vocabulary	
File	A specific piece of fata held on a computer
Folder	A virtual location where programs, files and other folders can be located
Shortcut key	A combination of keys that when pressed simultaneously, perform some task that ordinary requires to use a mouse.
Email	Messages sent electronically over a computer network
Attachment	A computer file sent along with an email message
Search engine	A computer program that is used to look for information on the internet
Social network	An online platform that allows users to create a public profile and interact with other users on the website
Online profile	A social identity that an internet user establishes in online communities and websites
Privacy settings	The part of a social networking website, internet browsers, piece of software. Etc. that allows you to control who sees information about you
Cyberbullying	Using technology to bully someone
Virus	A program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes and has detriment effect







#### **Unit - Keywords**

Cyberbullying

The bullying of another person using the internet, mobile phones and other digital devices, with the intent to deliberately upset them.

Netiquette

Correct or acceptable way of communicating on the internet

Cyberstalking

Repeated use of electronic communication to harass or frighten someone.

Online Grooming

Deliberate act taken to befiriend and create an emotional connection with a child, resulting in not good intensions.

Sexting

Sending sexually explicit messages or images by cell phones and other electronic devices.

Password

A secret word or phrase that must be used to gain access to something.

Hacking

Gainnig access to a computer, with the intension of stealing data or causing damage

Download

Copying data from one computer system to another, typically over the internet.

Chat room

A website, or part of a website which allows people to communicate via a computer network in real time.

Block

Action taken to stop interactions from set people via online communication.

Spam

An email that is sent to a large number of people and mostly consists of advertising.

#### Websites you can Trust

No one is in charge of the internet so anyone can post or publish anything to it. Some content may be unsuitable. Websites that you can trust include those from:

- the Government if the address has 'gov.uk' in it, it's a UK Government website
- the National Health Service (NHS) if the address has 'nhs.uk' in it, it's an NHS website
- the Police the official website is www.police.uk
- the BBC all of the BBC's websites have 'bbc.co.uk' in their address

#### 10 Ways To Stay Safe On Facebook

- 1) Monitor suspicious activity/links.
- Remove friends as appropriate.
- 3) Keep your wall clean.
- 4) Turn off Facebook Chat.
- Change your password often.
- 6) Be careful who you share your password with.
- 7) Hide your year of birth.
- 8) Keep your private info private.
- 9) Adjust your privacy settings.
- 10) Protect your mobile device.

#### Digital Footprint

Your digital footprint is everything on the Internet that's about you. This could mean photos, audio, videos, texts, your posts on friends pages, etc.

As you get older, a strong online presence can bring with it all kinds of benefits

Does this give a good online impression/digital footprint?



Andrew Field @andyfield · 2m

Cant be botherd going 2 school today I hate school

ta o

# b

#### Phishing

As an internet user, you need to know if something is real or fake. Criminals on the internet try to get information from people.

# Top Ten ways to Prevent Phishing 1) The message contains a mismatched URL 2) You didn't initiate the action 3) URLs contain a misleading domain name 4) You're asked to send money to cover expenses 5) The message contains poor spelling and grammar 6) The message makes unrealistic threats 7) The message asks for personal information 8) The message appears to be from a government agency 9) The offer seems too good to be true 10) Something just doesn't look right

Spot the Problem What is the issue with the following email?



#### Ways in which to reduce SPAM

Spam is very difficult to avoid but there are ways to reduce it:

- Use a spam filter most email clients try to stop spam from reaching you by using a spam filter. It recognises common spam emails and stops them from getting through. Check your spam email regularly as sometimes real emails are mistaken for spam.
- Do not give your email address out if you don't trust the website or if supplying your email address is optional, don't give it to them.

#### Free anti-virus applications

- AVG
- Avast
- Microsoft Security Essentials







# You get an email from someone you dont know

1. Delete it straight away and tell a parent

- 2. Reply to the email and ask who they are
- 3. Open the email to see what it is

A random person in a chatroom asks for your picture

What would you?

- 1. Find a good photograph and send it to them
- 2. Ask them to send their picture to you first
- 3. Do not send your picture and tell an adult