# CHRIST

KNOWLEDGE

#CtKCares







# 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

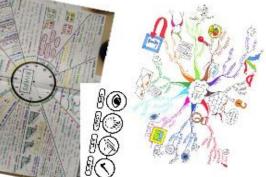
- the knowledge organiser. Check accuracy, correct in green pen and then 2. Draw a mind map, jotting down everything that you can remember from
- in each section. Cover the clock and recite the information aloud. clock face into 10 minute sections. Add notes from the knowledge organiser 3. Revision clock - 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:

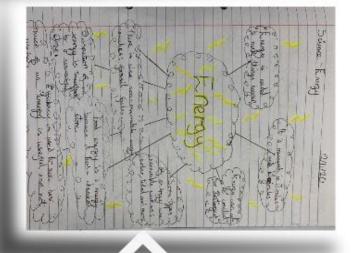
- 1. Write the complete title and date in full eg. Tuesday 9th September 2017 on each page, underlined
- 2. You should include a minimum of words to summarise the topic. Do not copy the words from the
- 3. Make full use of the page for each topic by scaling your notes & images appropriately to use of 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!

## CHRIST THE KING - KNOWLEDGE ORGANISERS

## Y7 ART

## **Formal Elements**

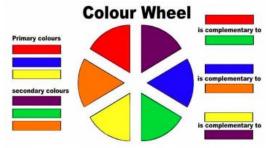
These are the basic elements that are used by Artists in creating Art: they are what you use to create an aesthetically pleasing work. When we make Art, we need to understand and apply these Elements of Art.

Art, we need to understand and apply these Elements of Art.		
The formal element Portrait Keywords		
1. Line	A single mark made by an implement	
2. Tone	How dark or light a shape is. You can use a pencil to shade or make colours lighter or darker. This makes objects look real and solid	
3. Form	a three dimensional shape	
4. Pattern	When shapes, colours or lines are repeated	
5. Colour	There are three primary colours: Red, Yellow & Blue. By mixing any two primary colours we get a secondary colour e.g. Yellow & Blue = Green	
6. Texture	How the surface of something feels.	
7. Shape	The outline or form of something	
8. Composition	The position and layout of shape on the paper.	
9. Focal Point	The place to which the eye is lead within a picture, the main interest.	
10. Foreground /Background	The front of the composition and that which is behind it.	
11. Proportion	Scale	
12. Sketch	A rough drawing. A small trial run to see if ideas work.	
13. Space	The distance around and between things.	
14. Perspective	A way of making a drawing or painting look deep and real. A method of making things appear near or far	
15. Medium	The tools and materials used by an artist.	
16. Rhythm	A regular measured beat. In art this can be shown as repeat shapes, patterns or colours	
17. Symmetry	When two sides or shapes are nearly the same.	
18. Symbol	A simple sign which stands for something bigger or complex.	
19. Two Dimensional - 2D	Having length and width only, something which is flat.	

1	20. Three Dimensional - 3D	Having length. Width and depth. Something that is solid.	
	21. Still life	A painting or drawing of inanimate (still) objects	
	22. Landscape	A picture of a town or countryside, also a composition that is sideways.	
	23. Portrait	A picture of a person, also a composition that is upright	
	24. Chiaruscuro	(An Italian word meaning `light and dark'.) The technique of suggesting 3 dimensional form by varying tones of light and dark paint	
	25. Impasto	Thick paint applied by brush or palette knife.	
	26. Cross-hatching	Lines are placed over each over at different angles to build up areas of tone.	

71	
1. Expressive drawing	A drawing that shows your thoughts and emotions
2. Design Drawing	A drawing that is detailed enough to allow someone to recreate what you have drawn
3. Observational drawing	A first hand study- when you are looking at the object in real life
4. Sketching	A quick drawing that shows the basic shapes and details
5. Development drawing	A longer more sustained drawing that may be on a larger scale
6. Perspective How the surface of something feels.	
7. Media	What you use in your hand to make a mark on the page

Types of Drawing



Tone—Light and Shade, pencil shading





Shading is used to make objects appear 3-Dimensional



## **Artist Profile**

Jasper Johns (May 1930)



- 1. Born in Augusta, Georgia, USA
- He is a sculptor and printmaker whose work is associated with abstract expressionism, Neo-Dada, and pop art.
- He is well known for his depictions of the American flag and other US-related topics.
- Johns has received many honours throughout his career, including receipt of the National Medal of Arts in 1990, and the Presidential Medal of Freedom in 2011
- 5. In 1952 and 1953 he was stationed in Sendai, Japan, during the Korean War.

## David Hockney (July 1937 - )



- He is British painter who lives and works in Yorkshire and California.
- 2. He has also used photography and modern technology like iPads and fax machines in his work.
- His paintings sell for millions of dollars.
- The Tate Gallery says he is 'perhaps the most popular and versatile British artist of the 20th century'.

## DRAMA KEYWORDS

## RESPECT

Paying attention to and being positive about other people's contributions.

No one is more or less important than anyone else.

## **ACTING**

Using physical and vocal skills to show someone other than yourself.

## **EFFORT**

How hard you work to give everything your best shot. You don't have to get everything right but you do need to try your best.

Drama Technique CHARACTERISATION

Using vocal and physical skills to show character

## STAYING IN ROLE

Staying focused on the part that you play the whole way through a performance.

## **FOCUS**

Your ability to concentrate and not be distracted (especially important during a game, rehearsal or performance).

## **TEAMWORK**

Working with a group of people to achieve a goal.

Drama Technique FREEZE FRAME

A character tells the audience what the character is thinking

Drama Technique
THOUGHT TRACKING

A character tells the audience what the character is thinking

Y7 Drama

## THEATRE KEYWORDS

- ☐ Theatre Maker
- □ Actor
- ☐ Stage Positions☐ Proscenium Arch
- ☐ In The Round
- ☐ Thrust
- ☐ Set

Studio skills: Drama

Expectations

■ Naturalism

Baseline Autumn 1

## Self-Reflection

What did I do well today?

What do I need to improve?

## Who am I?

Do I participate?

Do Misten?

Can I stay focussed on the task?

Can I co<mark>opera</mark>te in the studio?

## In the first term of Drama, your teacher will be looking for...

- Cooperation
- Concentration
- Control
- Communication
- Confidence
- Focus on task
- Teamwork/Group skills
- Listening

## Vocal Keywords

Accent to show an audience where a character is from: can also show emphasis in a word

Clarity you apply a clear speaking voice so the audience can hear you

Projection the strength of speaking whereby the voice is used loudly and clearly so an audience can hear you.

## Physical Keywords

Movement how we change our bodies to walk in character, Movement is important to show we are actors (not just reading a script)

Body language changing your body to show character

Posture the way a character stands and holds their body

Body language is...

lused movement when...

has feeling

Cross cutting is...

## Performance Keywords

Audience

Awareness

No backs to

audience

Movement

Add movement.

including

gesture and

facial

expression

**CHALLENGE** 

To learn all

your lines

and be 'off

script' when

performing

Expression facial expression to

show a character's true feelings;

vocal expression to ensure voice

Projection Use a loud and clear voice so you can be heard

> Space Use all your space to make sure you tell the

> > Drama Technique **Thought Tracking** A character tells the

audience what the character is thinking

## **Retrieval Tasks**

Drama Technique

Freeze Frame

A moment of

enhance a scene

Drama Technique

Cross cutting (or

show two scenes

happening at once

split scene) to

stillness to

1. to complete the thought clouds with definitions/exampl

2. Revise the skills and definitions

3. Learn your lines

## Y7 Drama Cowboys Autumn

Cowboy Creating Skills

- ☐ Change your body language
- ☐ Practicing an accent
- Apply posture

Rehearsal Skills

- ☐ Group skills
- Teamwork
- Listening

- Apply gesture
- Facial expression

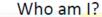
Cowboy

- Practice lines

Self-Reflection

What did I do well?

What do I need to improve?



- Do I participate?
- Do l'listen?
- Can I stay focussed
- in rehearsal?
- Can I cooperate in the studio?

In this topic, you will be assessed on:

- Characterisation
  - Vocal skills
- Accent

Cowbov Performance Skills

- □ Accent
- Use of space
- Gesture
- Projection
- Off script
- Staying in role



## Teacher observation:

- Effort
- Focus
- Respect
- Support for others

## CHRIST THE KING - KNOWLEDGE ORGANISERS

## Y7 Non-Fiction Reading and Writing

- When we read a text we make ASSUMPTIONS based upon what we read, this is called **INFERENCE.** Inference is an important part of reading because it is the way that we can determine what the writer thinks more deeply.
- Non-Fiction texts are based upon facts and real-life events.
- Some examples of Non-Fiction texts are:

Newspaper - Autobiography - Advert Biography - Letter - Review - Advert - Leaflet - Instruction manual

## Writing a comparison

When we are comparing two texts, we need to use the following vocabulary to show similarities/ differences:

## **Similarly**

Whereas

**Both** 

In contrast

## <u>Purpose</u>

Non-fiction texts can have different purposes including:

**Persuade** - convince the reader to believe something

**Inform** - teach the reader new information about a topic

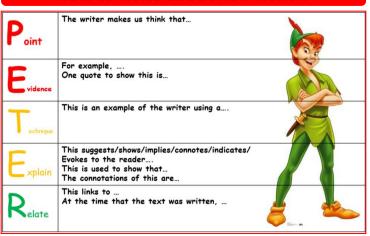
**Explain** – tell the reader how to do something or how it works

We change the language we use depending upon the purpose of the text.

Persuasive Language techniques		
1	Direct Address	uses 'you' to speak to the reader directly
2	Metaphor	describing something as something else with similar qualities
3	Oxymoron	two adjacent words which are opposites
4	Hyperbole	exaggerated statements not meant to be taken literally
5	Simile	compares two things using 'like' or 'as'
6	Exaggeration	representing something as better or worse than it actually is
7	Adjective	describes a person, place or thing
8	Rhetorical Question	a question which requires no answer
9	Emotive language	words chosen to evoke an emotional response
10	Facts and Statistics	real evidence used to prove a point, can be %
11	Irony	say the opposite of what you mean in order to be humorous

	Non-Fiction Keywords		
1	Compare	state the similarities and differences between the language and meaning of two texts	
2	Autobiography	writing about real events of your life	
3	Biography	writing about real events of someone else's life	
4	Viewpoint	how different people/writers see a situation/topic	
5	Summarise	state the key points of what has been read	

## How to write about non-fiction:



## **Persuasive Structural features**

To write an effective argument we can use:

**Repetition** – repeat words or phrases

**Counterargument** – acknowledge the other side to an argument

Short sentences – add impact

## CHRIST THE KING - KNOWLEDGE ORGANISERS ENGLISH - The Victorian Poor & Dickens

## Overview of the Victorian Era

Victorian Era – this is the period of Queen Victoria's reign, from 1837 until her death in 1901. The 1800s was a period of rapid industrial development throughout Britain. It was characterized by the growth of factories, and the mass production of manufactured goods. There were many changes to how people lived because the population of England doubled between 1800 and 1850. Cities grew as people moved from the countryside to find work.

## Living Conditions of the Poor

Previously, the rich and poor had lived in the same districts: the rich in the main streets; the poor in the service streets behind. Now, wealthier people moved out of town centres to the new **suburbs** – leaving the poor housed in the city centre. Much of the housing for the poor was demolished in order to make **factories**. This meant many of the poor were forced to **live on the street** and in **slums**.

## Why workhouses?

In 1834, the government amended (changed) the **Poor Law** and set up a network of **workhouses**.

The **middle** and **upper** classes felt that too much money was given to supporting the poor in local parishes and that this encouraged laziness. The government decided to only offer relief (aid) to the poor if they **worked hard** in return for a place to stay. This was intended to be harsh experience so that it reduced laziness and cut the costs of supporting the poor..

An economist called **Malthus** had published a theory about **population growth** which supported the changes to the Poor Law. He thought that

there would never be enough food to feed the growing population so it made sense to let the poor die and reduce the population. Charles **Dickens** did not agree with this and neither did Thomas **Barnardo**.

## Key skills: understanding context

The **context** of a text is information such as: **where** and **when** it was written, **who** it was written by, and **what** was happening at the time (politically and socially), when it was **published**. All of these influence the **writer's purpose** and the **effect** it has on its audience. In order to understand a text it helps to understand something about the time s/he was writing.

## **Charles Dickens**

Charles Dickens (1812 – 1870) Although Charles Dickens is best described as **middle class**, he was sympathetic to the suffering of the poor (**working class**), perhaps because he had some insight into their working conditions. When he was 12, he was sent to work in a factory because his father had been imprisoned for not paying a debt. This influenced the way he saw the working class as he realised that many worked hard for low wages: they were not all lazy and lacking moral standards.

## What were workhouses like?

Programme about Workhouses and Children's Homes in Victorian Britain:

## https://www.bbc.co.uk/programmes/p011t0t5

This programme covers information about what kind of things happened in workhouses and explains why people were so reluctant to go there.

- families were separated
- men did harsh physical activities like oakum picking and stone breaking women did all the cleaning and household duties
- punishments (for things like trying to escape) were public to deter others
- food was very basic

## Make a Point

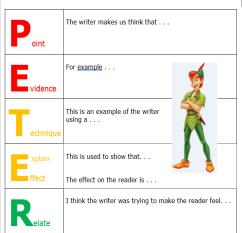
Sum up the main answer to the question in one full sentence. <u>Use Evidence to support</u> your point.

Can you identify any <u>Techniques</u> that the writer has used? <u>Explain</u> why you selected that quotation – <u>what's</u> the <u>Effect</u> on the reader?

Can you <u>Relate</u> your ideas to historical knowledge?



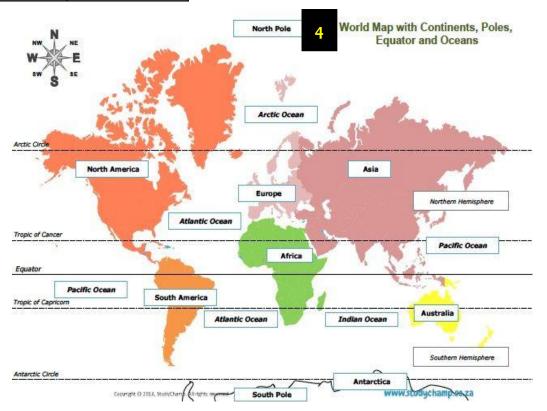




## Geography topic 1: Becoming a Geographer

1. Three types of Geography	
Human	How and where people live
Physical	The natural world
Environmental	The processes which shape our world

2. Atlas Skills – Using the Index
Page number
Grid square
Place name
Place it is within (country/continent)

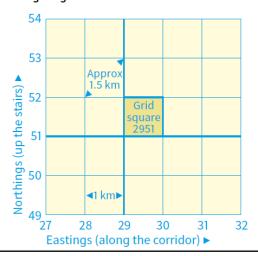


3. The UK		
4 Countries	England, Scotland, Wales, Northern Ireland	
Capitals	London, Edinburgh, Cardiff, Belfast	
Highest Peak in each country	Scafell Pike, Ben Nevis, Snowdon, Slieve Donard	
Longest Rivers	Severn, Thames, Trent	
Surrounding bodies of water	Atlantic Ocean, Irish Sea, English Channel, North Sea	

5. Describing Places Key Terms		
Landmark	An object or feature which is easily seen and recognised from a distance, often used to establish our location.	
Climate	The pattern of weather over time	
Topography	The shape of the land	
Biome	A large, naturally occurring major habitat	
Settlements	A place people have established to live	
Industry	Economic activity in a place	
Population	The people who live in a place	

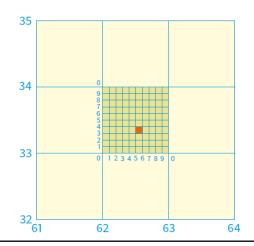
## Topic 2. OS Map Skills

Four-figure grid references



- 1. Used to identify a square on a map.
- 2. Always go along the corridor and then up the stairs.
- 3. Follow the Eastings to the bottom left of the square you want. Write this down.
- 4. Use the Northings to find the same corner. Write this number after the Easting. The one shown is 2951.

Six-figure grid references



- 1. Used to pinpoint an exact place on a map.
- Write the four figure reference for the square with a space after each set of numbers. The one above is 62\_33\_
- 3. Imagine the square is divided into 100 squares with 10 along each side
- 4. Go along the corridor and up the stairs and add the numbers in in this order. The example above is 625333

## CONTOURS

These are lines drawn on a map that join places of the same height

- On OS maps they are orange/brown
- Some will have their heights written on them—some you will have to work out
- They are always an EQUAL distance apart
- If the lines are CLOSE together the land is steep
- If the lines are FAR apart the land is flat or very gently



## SPOT HEIGHTS

Shows the exact height of the land by a black dot with a number next to it. The number is the height above sea level in metres.



## RELIEF

Relief is the shape and height of the land. OS maps use two systems to illustrate relief, spot heights and contour lines. A contour is a line drawn on a map that joins points of equal height above sea level.

## Spot height

The highest point in an area

## Y7 GEOGRAPHY

## Geography Topic 3: Russia



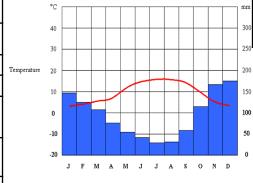
Diotiles III Russia	
Tundra	Taiga
Plain covered in permafrost	Coniferous forests
Coldest biome	Largest terrestrial biome
Plants grow low to the ground to be protected from cold and wind	Found in the Northern Hemisphere including Russia, UK, Canada and Sweden.
6	

Riomes in Russia

Plants grow low to ground to be prote from cold and wind	cted	Found in the Northern Hemisphere including Russia, UK, Canada and Sweden.	
Sectors of Industry			
Primary Collect r		aw materials	
Secondary	Manufa	Manufacturing	
Tertiary	Providin	Providing services	
Quaternary Working		with advanced technology	

LCOHOLITY III Russia key words		
Commercial farming	Farming to make a profit	
Subsistence farming	Farming to provide food for yourself – anything left after can be sold.	
Livestock	Animals reared to make a profit	
Nomad	People travelling to find fresh pasture for their animals with no permanent home.	

Francowy in Russia key words



Taiga
Evergreen trees
Thick, resinous bark
Pinecones
Long, shallow roots
Trees have long, thin needles
Downward sloping and

springy branches

Plant adaptations in the

Population key words	
Population Density	Number of people living in a given area
Densely populated	Many people living in an area
Sparsely populated	Few people living in an area

## Calculating population density

Population = Population Density Area

Who owns the Arctic?

## Economic Development in the Arctic

What is the Arctic? The Arctic is the area surrounding the North Pole. It is a large ocean (the Arctic) surrounded by land. Some of the ocean is covered in frozen saltwater called sea ice.

Countries have an exclusive economic zone of 200 nautical miles from their coastline which they own according to the UN. This can be expanded to 350 nautical miles if a

country can prove their continental shelf extends this far. Any resources found here belong to the

country. Russia believes it has the rights to a large area

of the Arctic because of this law.

## **Environmental impacts**

- Oil spills
- Calving icebergs
- Melting sea ice
- Reduce population of species including
- Hinder Beluga whale communication
- Disrupt the food chain

## Social and economic impacts

- Prevent nomads tending reindeer herds
- Reduce available land for settlements
- Conflict between nations
- Create jobs
  - Lower energy prices
- Provide energy for populations

Precipitation

Climate graphs contain two pieces of information

- Temperature in degrees Celsius (line graph)
- Precipitation in millimeters (bar chart)

Temperature is read from the left and precipitation from the right



erupted

Facts about the scale of Russia

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	2	U	1		U	יע	

1. Anglo Saxons: Government			
Edward the Confessor	The Anglo-Saxon King		
Witan	A council who helped the king make decisions		
Thegns	Noblemen who were given land by Earls		
Earls	Most important member of the aristocracy, below the King. Earl Godwin, then Harold Godwinson, was the Earl of Wessex. Tostig (Harold's brother) was Earl of Northumbria.		
Earldom	An area of land owned by an Earl. Wessex was the richest Earldom		
Shire Reeves	A senior official with local responsibilities under the crown- like a magistrate/ sheriff		
Aristocracy	Highest class in society		

consisting of the king/ Earls/

A poorer person in society,

Growing crops and raising

livestock for the use of one's

Area occupied by Vikings during

A person who is the property of

usually a farmer

another person

own family.

**Anglo-Saxon times** 

Noble

2. Anglo Saxons: society

Peasants

Slaves

Subsistence farming

Danelaw

3. The Succession Crisis	
Heir	Someone who is next in line to be king or queen
Viking	Poonlo of Scandinavia (Donmark Norway Swodon)

Viking	People of Scandinavia (Denmark, Norway, Sweden). The Vikings living in England were called Danelaw.
William Duke of Normandy	Ruler of a small country, at the top of France, called Normandy. He was a distant cousin of Edward the Confessor.
Harald Hardrada	King of Norway. He believed he could invade England and take the throne. His claim was based on a secret deal with another Viking called Magnus.
Edgar Aethling	Edward the Confessor's 9 year old nephew. He had

royal blood but was too young.

## 4. Battle of Hastings

Normans	People from Normandy
Hostage	Taking someone to use as a bribe
Infantry	Soldiers on foot
Cavalry/Knights	Soldiers on horses
Shield wall	Soldiers stood in a line with their shields overlapping to protect them

## 5. Castles (Methods of control)

]	Motte and Bailey castle	An original Norman castle. The Motte was a hill with the actual castle on the top, the Bailey was an area at the base where the soldiers lived.
1	Moat	A ditch surrounding the Motte and Bailey castle filled with water to stop enemies getting into the castle.
	Keep	The structure/ castle on top of the hill. The Keep of a Motte and Bailey Castle was made from wood, they were then replaced with stone.
1	Stone castle	A castle made from stone
1	Flanking Tower	A tower on the outside of the castle wall and could be used to fire arrows or other weapons from.
l	Turret	A smaller tower that can be used to fire weapons from

6. Feudal System and Domesday Book (Methods of control)		
Feudal System	William's order of society which showed who was in charge of whom and who had to work for whom	
Knights/ Tenants in chief	The landholders who held their land directly from the king.	
Domesday Book	A book which contained a highly detailed survey of the whole of Norman England. It helped William know how much tax people should pay, it solved legal arguments over land and it helped to raise an army.	

7. Narrative skill keywords		
Narrative	Similar to a story, which contains causes of an event, explains the event and finishes with an outcome	
Causes	The reasons the event happened	
Consequences	Something that happens because of the event	
Connectives	Linking phrases together to show an outcome/ consequence	
Analysing	Examine something in detail, usually in an order	

8. Timeline	
1042	Edward the Confessor becomes King
1053	Earl Godwin died and Harold Godwinson becomes Earl of Wessex
January 1066	Edward the Confessor dies
20 <sup>th</sup> Sept 1066	Gate Fulford
25 <sup>th</sup> Sept 1066	Battle of Stamford Bridge
14 <sup>th</sup> Oct 1066	Battle of Hastings
1085-1086	Domesday Book created
Jul 1087	William Duke of Normandy dies

	_				
History To	pic :	2	3. Medieval Life	1	
1. Thomas Beck	et		Peasants		Lower classes, usually farmers
Monarchy		A King or a queen	Strip farming		A system of farming where crops are grown in rows
Archbishop of Canterbury		Senior bishop and principle leader of the Church of England	Mill		A machine which grinds grain or moves water to create power
Medieval Court		The King's council and household, including	Common land		Land that peasant farmers work on for the Lord of the Manor
Church court		relatives, Barons, lords  Where clergymen were	Lord of the Man	ior	An important person who owns land in the countryside/ in a rural area
excommunicate	. d	tried  Excluded from the church	Cruck House		A simple style of house, very common in the countryside in the Middle Ages
Cathedral	:u	Church containing a	Latin		A classic language spoken and written in England in medieval times
Monks		A person who lives alone or with other monks in a	Countryside		An area with fields, trees and villages
		monastery	Town		A more built up area with shops, markets, houses
2. Magna Carta			4 Black Booth		
Magna Carta	do	oyal charter (a formal cument) of rights agreed to by g John	4. Black Death Disease	Ani	llness
Baron	A n	nember of the nobility	Germs	Tiny	organisms that can cause infection and illness
Tax	Мс	ney paid to the king			
Freeman		erson who is not 'tied' to the	Plague	A di	sease which spreads, caused by fleas on rats
Dictatorship	1	d they farm on e person telling people what do	Superstitious	lead	elief that something causes something bad to happen or Is to bad luck. Eg people believing that whipping mselves would stop them from getting the plague.
Democratic		nen people vote on possible rs/ rules	Miasma		at medieval people called 'bad air' which they believed uld make you ill.
Laws		es put in place that people st follow	Social	Any	thing related to people and society
Parliament		de up of MPs who advise the narch and pass laws	Economic	Any	thing related to money
Limited	No	t much of it	Cure	Som	nething to rid someone of illness or disease

5. Peasants' Revo	lt
Revolt	A break away or rise against authority/ people in charge
Riot	.A violent public disturbance
Political	Anything related to government and law
Grievances	A complaint about unfair treatment
Statute of Labourers	A law created by Parliament in 1351 in response to a labour shortage, which meant people weren't allowed to ask for more money and stopping people looking for work with better conditions

6. Cause and Conse	quence skill keywords
Cause	Something that leads to something else
Consequence	Something that happens as a result of a cause
Explain	Making a point clear by including more details/ relevant facts
Identify	Point out what someone or something is
Negative	Something which is bad
Positive	Something which is good

7. Timeline	
Murder of Thomas Becket	29 <sup>th</sup> December 1170
Magna Carta is signed	June 15 1215
Black Death	June 1348
Statute of Labourers	1351
Peasants' Revolt	1381

## Medieval Life

is linear

— as seen in the graph

Because the terms increase by the same addition each time this

n a tabe

Position

ω \_ 5 2 ω

Value of term

(the number of squares in each image)

Term: the number or variable

Continue Linear Sequences

1, 15, 19...

## Y7 MATHS

Year 7 Mathematics

Term 1A: Sequence





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

# By the end of this unit you should be able

- Explain term to term rules for linear non-linear sequences Describe and continue both linear and
- Find missing terms in a linear sequence sequence

## heywords

Sequence: items or numbers put in a pre-decided order

Term: a single number or variable

Position: the place something is located

Rule: instructions that relate two variables

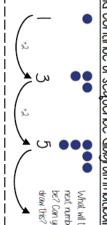
Non-linear: the difference between terms increases or decreases in different amounts L**inear**: the difference between terms increases or decreases by the same value each time

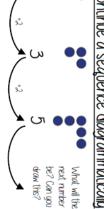
Difference: the gap between two terms

Orithmetic: a sequence where the difference between the terms is constant

Geometric: a sequence where each term is found by multiplying the previous one by a fixed non zero number

# Describe and continue a sequence diagrammatically





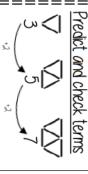
number of

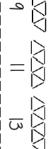
Count the

circles or

ines in

each image





there will be 6 more lines



eg How many lines in pattern 67 consider how it will increase Predictions: Look at your pattern and

If it is increasing by 2 each Prediction - 13

# The term in

Position: the place in the sequence

Sequence in a table

and graphically

Graphically has 7 squares Linear Sequences — increase by addition or subtraction and the same amount each time and Fibonacci Non-linear Sequences — do not increase by a constant amount — Linear and Non Linear Sequences

quadratic, geometric

OWSION. The differences between terms can be found by addition, subtraction, multiplication Do not plot as straight lines when modelled graphically

Fibonacci Sequence look out for this type of sequence

S

Each term is the sum of the previous two terms

# Continue non-linear Sequences

, 2, 4, 8, 6

constant is multiply by a It increases by multiplying the previous term by  $\lambda$  — this is a geometric sequence because the How do I know this is a non-linear sequence?

How many terms do I need to make this conclusion?

How many terms do I need to make this conclusion?

It increases by adding 4 to each term How do I know this is a linear sequence?

Oit least 4 terms — two terms only shows one difference not if this difference is

common difference) two terms only shows one difference not if this difference is constant

How do I continue the sequence?

You continue to repeat the same difference through the next positions in the sequence

Explain term-to-term rule How you get from term to term

You continue to repeat the same difference through the next positions in the

How do I continue the sequence? constant (a common difference)

Try to explain this in full sentences not just with mathematical notation

Use key maths language — doubles, halves, multiply by two, add four to the previous term etc

To explain a whole sequence you need to include a term to begin at...





# Term 1B: Algebraic Manipulations



## ó What do I need to be able to

By the end of this unit you should be able

- Be able to substitute into single and Be able to use inverse operations and operation families"
- Find functions from expressions two step function machines
- Form sequences from expressions
- Represent functions graphically

## **heywords**

Function: a relationship that instructs how to get from an input to an output Input: the number / symbol put into a function.

Output: the number/ expression that comes out of a function

**Inverse**: the operation that undoes what was done by the previous operation (The opposite operation)

Operation: a mathematical process

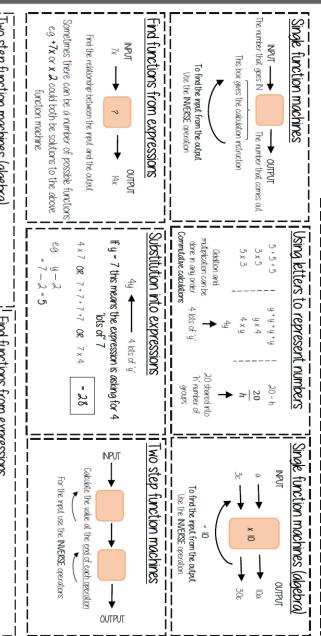
Commutative: the order of the operations do not matter

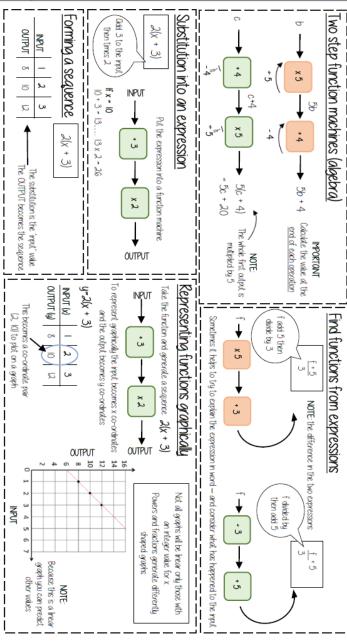
Substitute: replace one variable with a number or new variable

Evaluate: work out Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)

Linear: the difference between terms increases or decreases by the same value each time

Sequence: items or numbers put in a pre-decided order





# Term 1C: Equality and Equivalence





## 9 What do I need to be able to

By the end of this unit you should be able

- Understand like and unlike terms .Form and solve linear equations
- Simplify algebraic expressions

## heywords

Equation: a mathematical statement that two things are equal Equality: two expressions that have the same value

Equals: represented by '=' symbol — means the same

Solution: the set or value that satisfies the equation

Solve: to find the solution

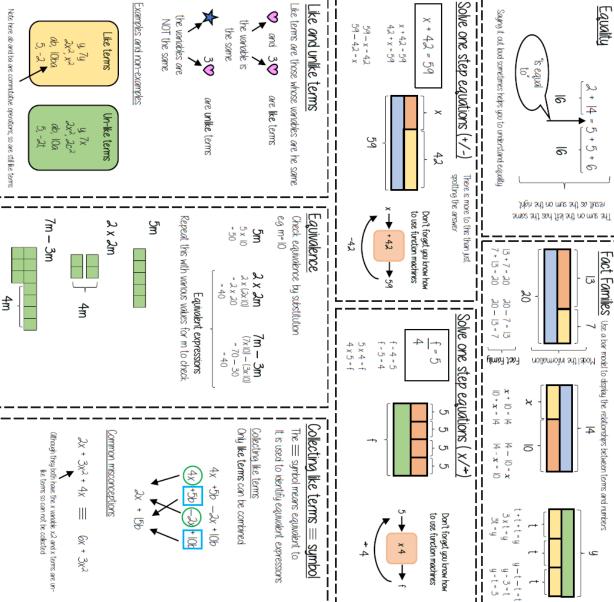
Inverse: the operation that undoes what was done by the previous operation (The opposite operation)

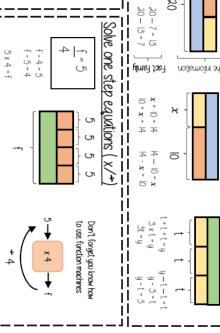
Term: a single number or variable

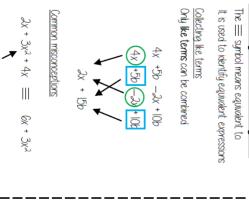
Like: variables that are the same are 'like

Coefficient: a multiplicative factor in front of a variable e.g. 5x (5 is the coefficient, x is the variable)

Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)







# Term 1D: Place Value





# What do I need to be able to do?

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

- system including decimals Understand place value and the number
- integers and measures of any size Understand and use place value for decimals
- Order number and use a number line for decimals; positive and negative integers, fractions and
- use the symbols =,  $\neq$ ,
- corresponding fractions Work with terminating decimals and their
- Round numbers to an appropriate accuracy
- distributions using the median and range Describe, interpret and compare data

## **heywords**

Opproximate: To estimate a number, amount or total often using rounding of numbers to make them easier to calculate with Integer: a whole number that is positive or regative

Interval: between two points or values

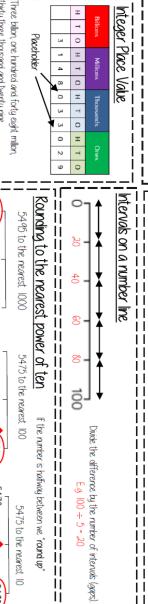
value of the list Median: O measure of central tendency (middle, average) found by putting all the data values in order and finding the middle

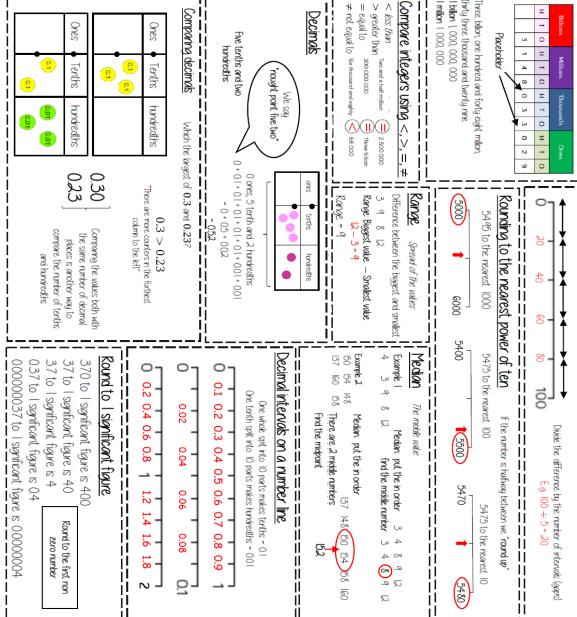
Negative: Ony number less than zero; written with a minus sign

Place value: The value of a digit depending on its place in a number. In our decimal number system, each place is 10 times Place holder: We use 0 as a place holder to show that there are none of a particular place in a number

Range: The difference between the largest and smallest numbers in a set bigger than the place to its right

the left. The most significant digit in a decimal fraction is the first non-zero number after the decimal point Significant figure: O digit that gives meaning to a number. The most significant digit (figure) in an integer is the number on





Term 1E: Fractions, Decimals and Percentage





## 9 What do I need to be able to

By the end of this unit you should be able

decimals & percentages Convert fluently between fractions

## **heywords**

Fraction: how many parts of a whole we have

Place value: the numerical value that a digit has decided by its position in the number Percentage: a proportion of a whole represented as a number between 0 and 100 Decimal: a number with a decimal point used to separate ones, tenths, hundreaths etc

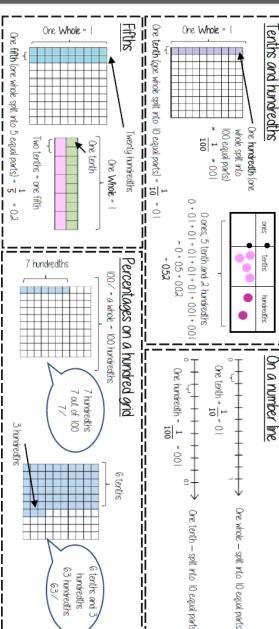
Placeholder: a number that occupies a position to give value

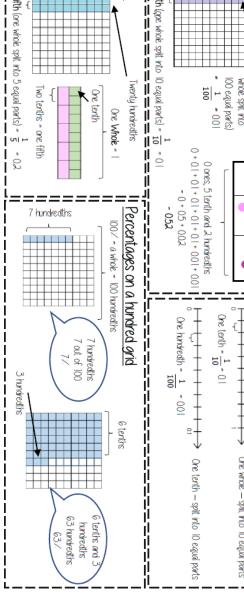
Interval a range between two numbers

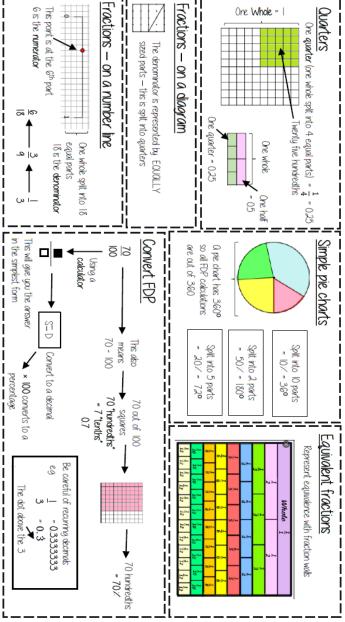
Tenth: one whole split into 10 equal parts

Hundredth: one whole split into 100 equal parts

Recurring: a decimal that repeats in a given pattern Sector: a part of a circle between two radius (often referred to as boking like a piece of pie)









## **Year 7 French – HT1 – INTRODUCING YOURSELF**

Salut! Ça va? Moi, ça va très bien	1	Hi! How are you? Me, I'm very well
Je m'appelle Elodie et j'ai douze ans	2	I am called Elodie and I have (am) 12 years old
Janvier Février  Mars Avril  Mai Juin  Je suis née le vingt Janvier mais	3	I was born the 20 <sup>th</sup> January but
L'anniversaire de ma soeur est le vingt-cinq mars.	ie l	the birthday of my sister is the 25 <sup>th</sup> March.
Elle s'appelle Françoise et elle est plus âgée que moi – elle a quinze ans.	5	My sister is called Françoise and she is more old than me - she has (is) fifteen years old
Je viens d'Espagne mais	6	I come from Spain but
j'habite à Nice en France, néanmoins	7	I live in Nice in France, nevertheless
Je voudrais habiter en Italie	8	I would like to live in Italy

# BoNJouRI

II/elle	Tuťa	Je m'a	t'appe	Comment	au revoir	merci	Comn	Ça va mal.	Ça va bien.	Ça va?	Salut	Bonjour	
II/elle s'appelle	Tu t'appelles	Je m'appelle	t'appelles-tu?	ent	ĝ.		Comme ci comme ça.	mal.	bien.	ľ		ur	;
	~	_	0	_	oro.	-		_	_	_	_	_	A. GIVEE IIIVGS
He/she is called	You are called	am called	called?	What are you	good bye	thank you	ľm okay.	I'm not good.	r'm well.	How are you?	Ξ	Hello	100
called	alled	d		you		_		ood.		/ou?			

				Ш			
6 jjay	F eff	ь Е	D day	C say	B bay	A ah	
N enn	M emm	L ell	K car	J jjee	I ee	H ash	L'A
O00	T tay	S ess	Rair	<mark>Q</mark> coo	P pay	O oh	L'ALPHABET
		Z zed	Y ee-grek	×	₩ doobla-vay	V vay	

How do you spell that? Comment ça s'écrit?

## **LES MOIS**

	septembre octobre novembre décembre	mai juin juillet	janvier février mars
PPPP	décembre	août	avril

# "Quelle est la date de ton anniversaire?"

Mon anniversaire c'est le (number) + (month)

E.g. Mon anniversaire c'est le sept juin.

## Quelle âge as-tu? How old are you?



# SEMAINE

2	
lundi	Monday
mardi	Tuesday
mercredi	Wednesday
jeudi	Thursday
vendredi	Friday
samedi	Saturday
dimanche	Sunday

| | 1 S deux 2 trois quatre 4 cinq 5 six 6 ! sept huit ø I neuf 9 d: 10 I onze 11 12 I 13 14

douze treize quatorze

# <u>BoNJouRi</u>



## **PHONICS**



## Dans mon sac il y a... In my bag there is...

## E. L'ÉCOLE

un cahier un stylo un crayon un livre une règle une gomme	an exercise book a pen a pencil a textbook a ruler a rubber
une règle	a ruler
emmog enu	a rubber
une calculatrice	a calculator 🥠
une chaise	a chair
une table	a table
le professeur/	the teacher
la porte	the door
la fenêtre	the window

# F. INSTRUCTIONS

**ESSENTIAL VERBS** 

. \

**ETRE—TO BE** 

You are

lam

0	Ţ	æ	ъ	P	Ēν	Ēν	z
Ouvrez	Fermez	Regardez	Prenez	Parlez	Écoutez	Écrivez	Notez
Z	Ze	dez	Z		ez	Z	
Open	Close	لور	Take	Say	List	Write	Note
en	se	Look (at)	ê	_	Listen (to)	ite	ŧ
		ċ			o)		_

# Ouvrez les cahiers!

Ils/elles ont | They have

lls/elles sont

They are

AVOIR—TO HAVE	TO HAVE	LUÞ
J'ai	l have	Je suis
Tu as	You have	Tu es
	(singular)	
II/elle a	He/she has	II/elle est
Nous avons	We have	Nous som
Vous avez	You have	Vous êtes
	(plural)	

Nous sommes

We are

He/she is (singular)

You are

(plural)

qu'est-ce que - what comment - how	quel/quelle - which
---------------------------------------	---------------------

# HIGH FREQUENCY WORDS

et - and c'est - It is

> ou - or aussi - also mais - but

18

15

16

19

20

21

22

23

80

trente

quinze seize dix-sept dix-huit dix-neuf vingt vingt et un vingt-deux vingt-trois

# Musical knowledge 1: the essentials

# Layers of sound

Melody = tune. One note at a time. Can be sung or played on an instrument.

Chords

2.





Melody

A beat

ω

A bass line

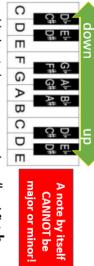


Played on a low-pitched instrument such as bass guitar, cello, double bass, tuba.

**Beat** = **rhythm.** Played on **unpitched** instruments such as **drums**.

## Notes on a keyboard

- Notes are in alphabetical order, going up to G Say: 'C is to the left of the two black keys: C
- DEF GAB



- Every black note has two names: sharp # and flat b
- ω 4.0 Flat = lower than white note
- $S\underline{h}$ arp =  $\underline{h}$ igher than white note

## Chords

Chord = 2+ notes played together



Chords can be major or minor Major = 4 then

2.

Sounds happy

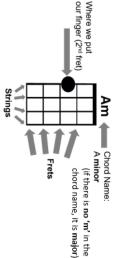
Minor = 3 then 4 semitones Sounds sad

The bottom note of the chord = the **root**. Semitone = the next The root gives its AND black note, counting white D F# A D major

Ĝ

C D B

name to the chord. Chords are usually played on the keyboard, guitar, or ukulele.



Left hand side of chord diagram = string nearest your chin

# Musical knowledge 2: rhythm notation

How to read rhythms

## Definitions

a heartbeat. You clap/dance to this. You feel it rather than *hear* it. 1. Pulse = the underlying count in the music. Like



between them: Rhythm = long and short notes, and the gaps

# Bars and time signatures

Notes on the stave are divided up into bars by bar lines.



again: each bar adds up correctly. A dot after a note adds on half as much . |-|-= 3 beats

combination of notes or rests, as long as

Rhythms can be made up of any

each blob is a note

Eighth Note/Rest (Quaver)

9

1/2 beat

Quarter Note/Rest

\_

1 beat

(Crotch et)

Half Note/Rest (Semibreve)

2 beats

Note/Rest Whole Name

0

4 beats

(Minim)

Note/Rest

Symbol

Symbol Rest

Note/Rest Value (Length)

Note

UK names are in brackets

American note names are more logical: here, the These are the basic types of notes.

+ 

time it normally takes to play two: A triplet squeezes three notes into the 3 Notes in the Space of 2



Crotchet

tells us what sort of beats they are beats are in a bar. The bottom number

# Musical knowledge 3: pitch notation

## Definitions

- between them: **Rhythm** = long and short notes, and the gaps
- ? goes up and down): Melody = tune. This has pitch as well as rhythm (i.e. it





## MELODY

Range – the distance from the lowest note to the highest: wide or narrow Sequence – a pattern that repeats Register– how high or low the notes are

Scalic (moving in a scale) or broken chord (moving in chord shapes)

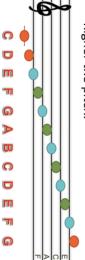
Melodic ostinato/riff: a repeating

Ornaments (extra notes added to Steps (going to a next-door note) or

ng to a note further away)

# How to read pitches

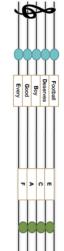
<u>'</u> the lines and spaces of the stave. The The blobs of the notes are arranged on higher the blob on the stave, the higher the pitch.



Notes alternate being on a line and in a

2

ω Notes higher or lower than the stave have their own little line called a **ledger line,** like middle C shown above.



4. spell 'FACE'. Remember to go upwards Football', and the notes in the spaces when doing this! lines with 'Every Good Boy Deserves You can remember the notes on the

## Musical knowledge 4: a cappella

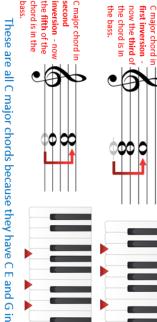
Types of voices

# **Definitions and theory**

- instruments A cappella = music sung by voices alone: no
- be major (sounds happy) or minor (sounds sad) **Key** = the set of notes used to create the music. Can
- Ÿ Inversion = when you shuffle the order of the chord

3+4 pattern. the 4+3 or chords follow Root position notes: Third

C major chord in **root position** (called this because the root note is in the bass (at the bottom)



them.

## 5 Bass = a low male voice

4 ω

> **Alto** = a lower female voice **Treble** = a boy's unchanged voice **Soprano** = the highest female voice

**Tenor** = a high male voice

Articulation is how the notes are played/sung.

Articulation

## ARTICULATION

Finger-picking - on guitar or uke, playing Strummed - on a guitar or ukulele, playing Staccato -Sustained – notes that are held on individual notes one from one pitch to another without Legato – notes that join smoothly together ating the new note on a voice/wind instrument, going short, detached notes

Accents - notes that are louder than the Arco – on a violin or cello, using the bow Pizzicato – on a violin or cello, plucking the

surrounding notes

# Musical knowledge: Listening J

When you are listening to a piece of music:

- Does it sound happy (major tonality) or sad (minor tonality)?
- Which instruments can you hear?
- What are the key features of the piece? How would you describe the rhythm?
- Which words could you use to describe the tempo? Is it fast or slow?



or complex? How are melodies used? Are they simple

- Are the notes high or low in pitch? Do the steps? notes make sudden leaps or move in small
- Are the dynamics (volume) loud or soft?
- How would you describe the style of How would you describe the structure? you hear? How many different sections of music can

music? Which genre of music would you

describe it as?



## <u> F.DRIPS</u>

**Definitions** 

Use **TDRIPS** 

Tempo, Dynamics nstrumentation, tructure to describe music cs, Rhythm, , Pitch,

## Key words

ISTENING

empo **Dynamics** 

Slow

Forte

Piano

**Appraisal** 

an act of assessing something.

"What am I hearing?



# Musical knowledge: Composing 6

# Composing Using the Elements

music interact. Texture: how layers of sound within a piece of

Dynamics: How loud or soft a musical sound

e.g. 4 beats in every bar is common time. Rhythm: Musical patterns, measured in time

musical sections used in a composition e.g Instrumentation: The instruments and strings, percussion etc.

Pitch: how high or low a musical note or

COMPOSITION

composition e.g. section A, section B. Structure: the parts which make up a

Key words



## Definitions

## What is 'harmony'?

heard in a piece of music simultaneously. This includes chords and melodies The sound of two or more notes heard

# What does 'composition' mean?

piece of music composing parts and developing ideas to create Composition is the art of creating music, by

Listen to a range of music for

Composition Tips

## Key Notes

Learn the software well Sing and train your ears Play an instrument inspiration.

Practice

Crotchet: a note worth 1 beat. Using music notes in composition

Minim: a note worth 2 beats. Quaver: a note worth 1/2 a beat.

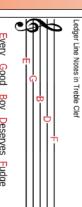
**C** 

0

SPACE NOTES

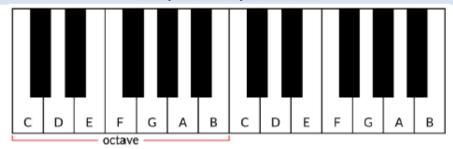
Semibreve: a note worth 4 beats.

Treble clef SPACE notes spell the word FACE.



Every Good Boy Deserves Fudge

## 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 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"





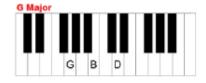
Notes from MIDDLE C going up in pitch (all of the white notes) are called a SCALE.

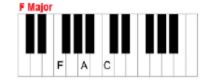


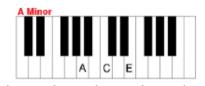


C. Keyboard Chords





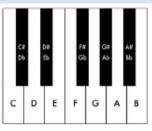




Play one - Miss one - play one - miss one - play one

## 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.



## **Football**

## **Key Words:**

- 1 Shooting/striking
- 2 Passing
- 3 Defending
- 4 Attacking
- 5 Tackling
- \*\*\*\*
- 7 Chipping

Crossing

- 2 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

## Rules:

- A senior football match consists of two 45-minute halves and must have a 15-minute break in the middle
- A team can start with a maximum of 11 players, of which one is the designated goalkeeper
- A team is able to make substitutions at any time of the match and are able to make a maximum of three changes
- 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 example, kicking the player, pushing, handball etc).
- 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
- 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 Media in Sport

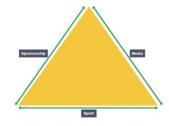
## Positive influences of media:

- 1. Raise awareness of sport
- 2. Promote healthy active lifestyles
- 3. Positive role models
- 4. Celebrate effort and success
- 5. Provide a sense of belonging
- 6. 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

## Benefits of sponsorship for sports

free product to athletes

Dements	belieffed of sponsorship for spores	
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	

## Disadvantages 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
- 2. 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:

Michael Jordan

## **Basketball**

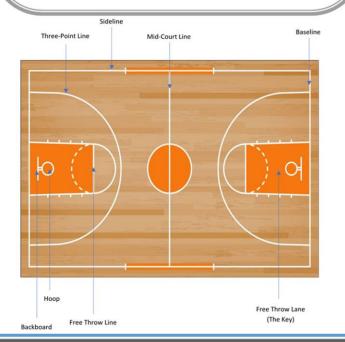
## Rules:

**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.

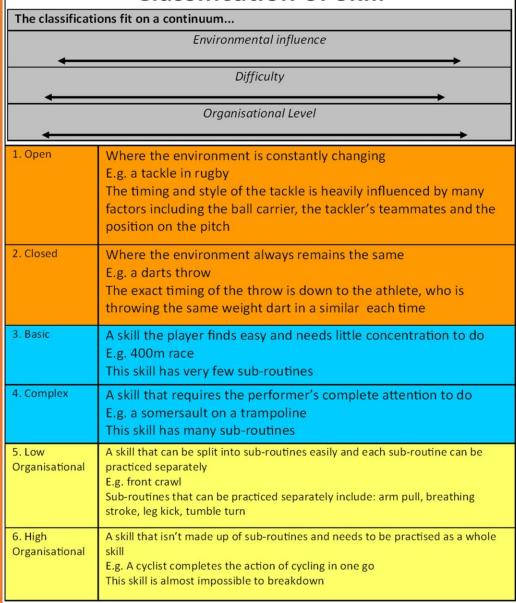
**Double Dribble**—This is when a player dribbles the ball twice after the ball comes to rest or they put two hands on the ball. Side line ball to the opposition is awarded if this occurs.

**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



Key Words:

Routine

Tuck

Pike

Straddle

Execution

Skills:

**Full Twist** 

Seat Drop

Front Drop

**Back Drop** 

Front Somersault

Famous Trampolini ists:



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.



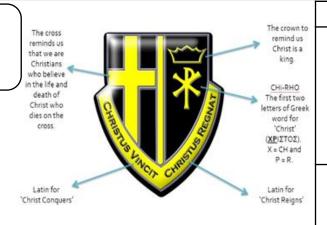
- 1. A final trampoline mark is based on a difficulty and execution score.
- 2. A difficulty score begins at 0.0 and goes up continuously with every difficult skill performed.
- 3. An execution score is different and begins at a score of 10.0 and is then deducted by judges for errors in performance.

## **Types of Guidance**

<u>Visual</u> <u>Guidance</u>	<ul><li>Demonstrations</li><li>Images</li><li>Videos</li><li>Observations</li></ul>	Example— demonstration to perform a seat drop in trampolining.
<u>Verbal</u> <u>Guidance</u>	<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.
Manual Guidance	When a performer is physically guided or supported by the coach/teacher.	Example— A trampoline coach supporting a front somersault.
<u>Mechanical</u> <u>Guidance</u>	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.

## Unit 1: Introduction to Catholicism Term 1





	Key Words			
1	Bible	Sacred book of Christians containing both the Old and New Testaments		
2	Church	The Holy People of God, also called the Body of Christ, among whom Christ is present and active. Members of a particular Christian denomination/tradition		
3	Gospel	From the Anglo-Saxon godespel. Meaning 'good news'		
4	Inspiration	ration The guidance from God to write what is in the Bible		
5	Liberal View	The view that the Bible's authors were guided by God, but being human, could have made mistakes. This approach focuses on the spiritual truth within the parables and miracle accounts		
6	Literal View	A belief that every word of the Bible is literally true, even when this defies common sense and logic		
7	Reveal	Make known, show, make visible		

	Key Quotes		
1	'We saw his glory, the glory which he received as the Father's only Son'. (John 1:14).		
2	'I am the Lord's servant. May it be to me as you have said.' Luke 1:38		

## **Key Facts**

To help the CtK community carry out its Mission Statement, it uses #CTKCARES

- Community This means that we will accept everyone in our school for who they
  are
- Achieve We should want to do well and encourage others to do well too
- Respect We will accept and celebrate our differences making sure we treat people the way we would like to be treated
- **Encounter** –We should be respectful of all beliefs and encourage each other to question and search for 'truth'
- Jesus was a human, he grew from a baby into an adult, he made friends, got tired and hungry, he cried when his friend died and was frightened about the future. He was also the Son of God, according to Christians, and performed miracles, spread the message of God and taught us to care for the most vulnerable in our community.
- Christians have used the Bible as a guide and resource book for both their beliefs and their actions. The Roman Catholic Church still uses the Bible as a basis for its teachings and God still speaks through the Bible and guides the Church through the Holy Spirit.
- The Church is the group of believers that accepts Jesus as the **Son of God**, God-made-man. **The Church as the Body of Christ** performs the work of Christ on earth and helps other people to respond to the teachings of Christ.
  - In the 16<sup>th</sup> century some Christians protested about the way the Pope in Rome was leading the Church. These **Protestants** broke away from Rome and formed separate Churches. This is known as the Reformation

In any particular country the Church is usually organised like this:

- There may be one or more **Diocese**, each looked after by a bishop
- Each Diocese is split into smaller areas called deaneries.
- The smallest Church community is the *parish*, with the local community and a parish priest
- Roman Catholics believe that **Mary** had remained a virgin throughout her life, being totally dedicated to the work of God. She is a role model for Christians of what will happen to all those who are faithful to God. Roman Catholics believe that Mary is a perfect human being.
- Pope Francis' took the name Francis after his election when he was reminded of St Francis' call to look after the vulnerable and the environment. **St Francis** was an Italian friar who is remembered for his solidarity with the poor, his love of animals and his attempts at interfaith dialogue with Muslims.

## CHRIST THE KING - KNOWLEDGE ORGANISERS

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		Key Words	
1	Covenant	An agreement or promise between God and people	
2	Descendan t	A future relation, for example, a child or child's child	
3	The Fall	Adam and Eve's disobedience towards God by eating the forbidden fruit, bringing sin and evil into the world	
4	Garden of Eden	The garden created by God for Adam and Eve to live in	
5	Genesis	The first book in the Bible; it literally means 'origin'	
6	A name given to Abraham's descenda Israelites chosen by God to be a great nation an have their own land		
7	Old Testament	The first part of the bible, written between 800 BCE and 165 BCE	
8	Original Sin	The Christian belief that everybody is born with a desire to do wrong	
	!	Key Quotes	
Thus the heavens and the earth were completed in all their vast array This is the account of the heavens and the earth when they were created, when the LORD God made the earth and the heavens.  (Genesis 2:2-4)			
You are to bring into the ark two of all living creatures, male and female, to keep them alive with you. <sup>20</sup> Two of every kind of bird, of every kind of animal and of every kind of creature that moves along the ground will come to you to be kept alive. (Genesis 6:19-20)			

Unit 2: Biblical Literacy Old Testament – Genesis Term 1









## **Key Facts**

- The bible is a collection of 66 or more separate books written by about 40 different authors over several centuries. These books are organised into two sections: the Old Testament and the New Testament
- Christians believe that the Bible is inspired by God. Some interpret the Bible literally and others think that some of its stories are myths.
- In Genesis, God creates the first humans, Adam and Eve, and tells them they can eat the fruit from any tree in the Garden of Eden except the tree that 'gives them knowledge of good and evil.' They disobey him, and Christians believe this brought original sin into the world.
- Adam and Eve had two sons called Cain and Abel. Christians believe the effects of original sin can be seen in Cain's murder of his brother Abel.
  - According to Genesis, as the earth's population increased, so too did the violence and evil. God decided to send a great flood to wipe out the human race, but he told a good man named Noah to build an ark to save himself and his family.
  - God wanted to establish a a special nation of people who would follow his laws and be an example to others., He chose a man named Abraham to be the father of this nation. He tested Abraham's suitability by asking him to sacrifice his son, Isaac.
- Isaac had two sons, Jacob and Esau. Jacob had 12 of his own sons, including Joseph. Joseph's brothers disliked him because he was his father's favourite and dreamed of his brothers bowing down to him.
  - Joseph's brother sold him into slavery in Egypt, where he work for Potiphar before being imprisoned when Potiphar's wife accused him of trying to get into bed with her. He was released from prison after interpreting Pharoah's dreams. The pharaoh made him the second most powerful man in Egypt.

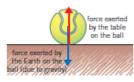


## Chapter 1: Forces Knowledge organiser



## What is a force?

- · A force can be a push or a pull
- A force is measured in Newtons (N)
- · We measure forces with a newton meter
- Forces explain why objects will move, change direction and change speed
- Forces always act in pairs, we call these interaction pairs
   e.g. the tennis ball exerts a downward force of weight onto the table,
   the table exerts an equal and opposite reaction force onto the ball



## Types of forces

- . Contact forces act when two objects are physically touching
- · Air resistance and friction are examples of contact forces
- Non-contact forces act when two objects are physically separated (not touching)
- Examples of non-contact forces include gravitational force and magnetic forces
- We call the region where an object experiences a non-contact force a field, examples of these include gravitational fields and magnetic fields

## Gravity

- Gravity is a non-contact force that acts between two objects
- · Gravitational force pulls you back to Earth when you jump
- The size of the gravitational force depends on the mass of the two objects and how far apart they are
- Weight is the downward force caused by gravity acting upon the mass of an object, it is measured in Newtons (N)
- Mass is the amount of matter within an object, whereas weight is the downward force of the object, we measure mass in kilograms
- We calculate weight with the equation:

 The value of the gravitational field strength can vary, so although a person's mass would be the same on different planets, their weight would not be

## Balanced and unbalanced forces

- When forces acting on an object are the same size, but acting in different directions, we say that they are balanced
- When forces are balanced, the object is either not moving (stationary) or moving at a constant speed
- When the two forces acting on an object are not the same size, we say that the forces are unbalanced
- When forces are unbalanced, the object will either be in acceleration or deceleration
- The resultant force is the difference between the two unbalanced forces



## Speed

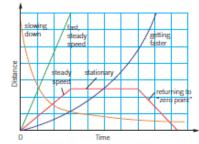
- Speed is a measure of how quickly or slowly that something is moving
- We measure speed in meters per second (m/s), this means that distance must be in meters and time must be in seconds
- · We calculate speed with the following formula:

speed (m/s) = 
$$\frac{\text{distance travelled (m)}}{\text{time taken (s)}}$$

- Relative motion compares how quickly one object is moving compared to another
- If both objects are moving at the same speed, they are not changing position in comparison to one another, meaning that their relative speed is zero

## Distance-time graphs

 Distance-time graphs tell the story of a journey, they show how much distance has been covered in a certain period of time



 To find the average speed, the total distance must be divided by the total time

(P) Keyterms

Make sure you can write definitions for these key terms.

acceleration air resistance balanced contact force deceleration distance-time graph field force friction gravity gravitational force interaction pair kilograms mass Newton newton non-contact pull push relative motion resultant force speed unbalanced weight

Key word	Definition	Retrieval Question	Retrieval Answer
Acceleration	Speeding up	List 2 things that forces do	Push or pull
Air resistance	A non-contact force exerted by air particles on an object	Describe the difference between a contact force and a non-contact force	Contact forces act when you touch something, non- contact forces occur when objects are not touching
Balanced	Forces acting on an object are the same	State 2 examples of contact forces	Friction and air resistance
Contact force	When 2 objects are physically touching	State 2 examples of non- contact forces	Gravity and magnetism
Deceleration	Slowing down	What are pairs of forces called	Interaction pairs
Distance – time graph	A graph that shows the story of a journey	State the units of force	Newtons (N)
Field	The region where an object experiences a force	What is a resultant force?	The forces acting on an object added together
Force	A push or a pull	State what is meant by equilibrium	When the forces acting on an object are the same size
Motion	Movement	What force acts on stationary objects?	Reaction
Gravity	A non-contact force that acts between 2 objects	State an example of a resistive force	Air resistance, friction
Gravitational force	The force that brings you down to Earth when you jump	What happens to an object if the forces are not balanced?	The object changes speed or direction
Interaction pair	Equal forces acting in opposite directions	State what is meant by speed?	How far something travels in a time
Kilograms	The unit of measurement for mass	Give the equation for calculating speed	Speed (m/s) = distance travelled (m) ÷ time taken (s)
Mass	The matter which makes up an object	State what is meant by average speed?	The overall distance travelled divided by the overall time taken
Newton	The unit of measurement for force	State what is meant by relative motion	The speed of an object relative to the speed of an observer
Non-contact	When 2 objects are not touching	State what a distance-time graph shows	The distance something travels over a certain time
Pull	A force	What does a horizontal line on a distance-time graph show?	The object is stationary/not moving
Push	A force	What does a straight diagonal line on a distance-time graph show?	The object is moving at a constant speed
Relative motion	How quickly an object is moving compared to another	What does a curve on a distance-time graph show?	The object is accelerating

Key word	Definition	Retrieval Question	Retrieval Answer
Resultant force	The difference between 2 unbalanced forces	State what is meant by acceleration	How quickly the speed of an object increases or decreases
Speed	A measure of how quickly or slowly something is moving	What is gravity/gravitational force?	A non-contact force that pulls objects towards the Earth
Unbalanced	When forces acting on an object are different	What factors affect the size of a gravitational force?	The mass of the object, how far apart the objects are
Weight	A downward force caused by gravity	Describe what is meant by a field	A region where something experiences a non-contact force
		What is the difference between mass and weight?	Mass is the amount of "stuff" something is made of; weight is a force
		State the equation for calculating weight	Weight (N) = mass (kg) x gravitational field strength (N/kg)
		State what is meant by gravitational field strength	The force that acts on every 1kg of an object
		Describe how the Earth stays in orbit around the Sun	The Earth exerts a force on the Sun and the force of gravity on the Sun keeps the Earth in orbit

## Chapter 3: Energy Knowledge organiser



## Energy

- . Energy is needed to make things happen
- It is measured in joules or kilojoules
- The law of conservation of energy says that energy cannot be created or destroyed, only transferred
- This means that the total energy before a change if always equal to the total energy after a change

Energy can be in different energy stores, including:

- Chemical to do with food, fuels and batteries
- Thermal to do with hot objects
- Kinetic to do with moving objects
- Gravitational potential to do with the position in a gravitational field
- · Elastic potential to do with changing shape, squashing and stretching

## Food and energy

- Food has energy in a chemical energy store
- Different foods contain different amounts of energy
- Different activities require different amounts of energy
- Different people need different amounts of energy depending on what they do each day

## Power and energy

- Power is a measure of how much energy is transferred per second
- Power is measured in watts (W)
- Each appliance has it's own power rating to tell us how quickly it uses energy
- · We can calculate power with the equation:

power (W) = 
$$\frac{\text{energy (J)}}{\text{time (s)}}$$

## Non-renewable energy

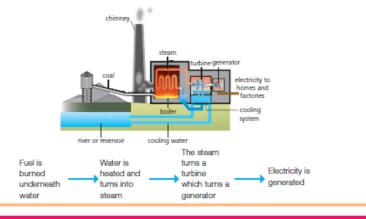
- Non-renewable energy cannot be replaced within your lifetime.
- Non-renewable energy resources include coal, oil, natural gas and nuclear resources
- Coal, oil and natural gas are also known as fossil fuels, they release carbon dioxide when burned which contributes to global warming

## Renewable energy

- Renewable energy can be replaced within your lifetime
- Renewable energy resources include wind, tidal, wave, biomass, solar, hydroelectric and geothermal
- Renewable energy resources do not produce much carbon dioxide, meaning that they have a smaller effect on global warming

## **Power stations**

Thermal power stations burn coal, oil and natural gas, which are all non-renewable energy resources



## Dissipation of energy

- We say that energy is dissipated when it is transferred to a nonuseful store, it cannot be used for what it was intended for
- . Energy can be wasted through friction, heating up components or heating the surroundings

 Efficiency is a measure of how much of the energy has been used in a useful way, we can calculate this with the equation:

efficiency (%) = 
$$\frac{\text{useful energy output}}{\text{energy input}} \times 100$$



Make sure you can write definitions for these key terms.

chemical dissipated efficiency elastic potential energy energy resources fossil fuels graviational potential joules kinetic kilojoules

Keyword	Definition	Retrieval Question	Retrieval Answer
Chemical	The energy store	State the unit of energy	Joules (J)
	referring to food, fuels,		
	and batteries		
Dissipated	When energy is	How do you convert Joules	From Joules to
	transferred to a non-	to Kilojoules and vice	Kilojoules ÷1000. From
	useful store	versa?	Kilojoule to Joules
			x1000
Efficiency	The measure of how	Name 3 fuels	Coal, Oil, Gas
	much energy has been		
	used in a useful way		
Elastic potential	The energy store	List three things that your	Maintaining body
	referring to objects	body needs energy for	temperature, Growth,
	changing shape,		Movement
	squashing, or stretching		
Energy	Energy is needed to	What is meant by a fossil	A fuel formed from the
	make things happen	fuel	dead remains of
			animals and plants
Energy resources	A source from which	State the name of 3 fossil	Coal, Oil, Gas
	useful energy can be	fuels	
	extracted		
Fossil fuels	Coal, Oil and Natural	Describe the stages of	Creating steam,
	Gas. They are an	generating electricity in a	Turning the turbine,
	example of a chemical	power station	Spinning the generator,
	energy store		National grid to the
			homes
Gravitational potential	The energy store	Name the greenhouse gas	carbon dioxide
	referring to an objects	that is produced when	
	position in a	fossil fuels burn	
	gravitational field		
Joules	The unit of energy. It	What is the difference	non-renewable energy
	has the symbol J	between a renewable and	resources cannot be
		non-renewable energy	replaced within a
		resource?	lifetime. Renewable
			energy resources can
Vinetia	The energy store	List F sees weekle sees	be replaced
Kinetic	The energy store	List 5 renewable energy	solar, wind, tidal,
	referring to moving	sources and describe how	geothermal,
Vilaiaulaa	objects	they work	hydroelectric, biomass
Kilojoules	The unit of energy.	State the unit of power	Watts (W)
	There are 1000J in		
Law of concernation of	1kilojoule (kJ)	Cive the equation for	nower (M) - energy (1) /
Law of conservation of	Energy cannot be created or destroyed	Give the equation for	power (W)= energy (J) / time (s)
energy	and the second s	calculating power	time (s)
Non-renewable	only transferred An energy resource that	State the unit of energy	Kilowatt hours (kwh)
Non-renewable	cannot be replaced in a	that electricity companies	Kilowatt flours (kwfi)
	human lifetime	use that electricity companies	
Power	The measure of how	Give the equation for	cost = power x time x
rower	much energy is	calculating electricity cost	price
		calculating electricity cost	price
	transferred per second	l	

Keyword	Definition	Retrieval Question	Retrieval Answer
Renewable	An energy resource that can be replaced in a human lifetime	State 2 ways of reducing energy costs at home	insulating the loft, installing double glazing
Thermal	The energy store referring to hot objects	State the law of conservation of energy	energy cannot be created or destroyed but transferred from one store to another
Watts	The unit of power. The symbol is W	Name 5 types of energy store	chemical, gravitational potential, kinetic, elastic, thermal
		State 3 ways that energy is transferred between stores  Describe the energy	electric current, light, sound, heating chemical, heating, light,
		transfer when a fuel burn	thermal
		Describe how the energy store of an object is linked to its; speed, temperature,	speed = kinetic, temperature = thermal, height = gravitational,
		height, and compression	compression = elastic
		What is meant by dissipation?	energy is wasted
		State the energy dissipated by a moving object	friction, air resistance
		State 2 ways to reduce dissipation in a car	aerodynamic design, reducing friction between the engine parts using oil, use insulation to reduce heat loss
		State what is meant by efficiency?	how much energy is transferred usefully and how much is wasted (dissipated)
		Give the equation for calculating efficiency	efficiency = useful energy out x 100 / total energy in





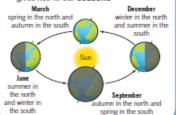
## The Earth core (outer) core (inner)

The Earth has three main layers:

- The crust is rocky and solid
- . The mantle is made from mainly solid rock but this can flow
- . The outer core is liquid metal and the inner core is solid

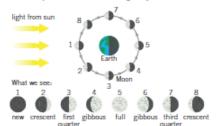
## The spinning Earth

- . The Earth takes 365 days to orbit the Sun, this is one Earth year
- . The Earth takes 24 hours to spin on it's axis, that is why we have day and night
- . The Earth's axis has a tilt of 23.4" which gives rise to our seasons



## The Moon

- The Moon is a natural satellite which orbits the Earth
- One orbit of the Earth takes 27 days and 7 hours, this causes us to see the phases of the moon
- The different phases of the moon are caused by different parts of the Moon being lit by the Sun



## The night sky

- A galaxy is a collection of stars, our galaxy is known as the Milky Way
- Stars produce their own light
- Planets are large objects which do not produce their own light but orbit stars
- Natural satellites include moons which can orbit planets
- Artificial satellites, such as the International Space Station, are man made structures which can orbit planets

The Universe

Galaxies

Stars

Planets, asteroids, and comets

Moons

## Types of rock

Type of rock	How it is formed	Properties	Uses
sedimentary rock	sediment piles up in one place and, over many years, sticks together by compaction or cementation     compaction: weight of sediments above squeeze them into rocks     cementation: another substance sticks the sediments together	porous: made of small grains stuck together so there are holes that water can pass through     soft: easy to break apart the sediments	building materials (e.g. sandstone and limestone)
igneous rock	when liquid rock cools it turns into igneous rocks these are made of crystals locked tightly together     magma: liquid rock underground-cools slowly and forms large crystal     lava: liquid rock above the ground-cools quickly and forms small crystals.	durable and hard (difficult to damage): the crystals are locked tightly together     not porous: there is no space between crystals	pavement rail tracks
metamorphic rock	other rocks under that Earth are heated and put under pressure     over time, these rocks become metamorphic	not porous: there is no space between crystals	marble used for kitchens slate used for roofing tiles

## The Solar system

Our solar system consists of eight planets which orbit the Sun, four inner and four outer planets

Outer planets Inner planets Small and rocky planets Gas giants (dwarf planets)

Mercury, Venus, Jupiter, Saturn, Earth Mars Uranus, Neptune

- · Between the inner and outer planets, between Mars and Jupiter, there is the asteroid belt
- . The planets all orbit the Sun, but the path of their orbits are all slightly different, giving them the look of 'wandering' in the sky

## Melts to form magma then cools to form

## The rock cycle

The rock cycle shows how rocks change and how their materials are recycled over millions of years

Make sure you can write definitions for these key terms.

artificial satellite asterold belt crust deposition dwarf planet Inner core mantle metamorphic rock magma porous rock cycle season sedimentary rock solar system star

Keyword	Definition	Retrieval Question	Retrieval Answer
Chemical	The energy store referring to food, fuels, and batteries	State the unit of energy	Joules (J)
Dissipated	When energy is transferred to a non- useful store	How do you convert Joules to Kilojoules and vice versa?	From Joules to Kilojoules ÷1000. From Kilojoule to Joules x1000
Efficiency	The measure of how much energy has been used in a useful way	Name 3 fuels	Coal, Oil, Gas
Elastic potential	The energy store referring to objects changing shape, squashing, or stretching	List three things that your body needs energy for	Maintaining body temperature, Growth, Movement
Energy	Energy is needed to make things happen	What is meant by a fossil fuel	A fuel formed from the dead remains of animals and plants
Energy resources	A source from which useful energy can be extracted	State the name of 3 fossil fuels	Coal, Oil, Gas
Fossil fuels	Coal, Oil and Natural Gas. They are an example of a chemical energy store	Describe the stages of generating electricity in a power station	Creating steam, Turning the turbine, Spinning the generator, National grid to the homes
Gravitational potential	The energy store referring to an objects position in a gravitational field	Name the greenhouse gas that is produced when fossil fuels burn	carbon dioxide
Joules	The unit of energy. It has the symbol J	What is the difference between a renewable and non-renewable energy resource?	non-renewable energy resources cannot be replaced within a lifetime. Renewable energy resources can be replaced
Kinetic	The energy store referring to moving objects	List 5 renewable energy sources and describe how they work	solar, wind, tidal, geothermal, hydroelectric, biomass
Kilojoules	The unit of energy. There are 1000J in 1kilojoule (kJ)	State the unit of power	Watts (W)
Law of conservation of energy	Energy cannot be created or destroyed only transferred	Give the equation for calculating power	power (W)= energy (J) / time (s)
Non-renewable	An energy resource that cannot be replaced in a human lifetime	State the unit of energy that electricity companies use	Kilowatt hours (kwh)
Power	The measure of how much energy is transferred per second	Give the equation for calculating electricity cost	cost = power x time x price

Keyword	Definition	Retrieval Question	Retrieval Answer
Renewable	An energy resource that can be replaced in a human lifetime	State 2 ways of reducing energy costs at home	insulating the loft, installing double glazing
Thermal	The energy store referring to hot objects	State the law of conservation of energy	energy cannot be created or destroyed but transferred from one store to another
Watts	The unit of power. The symbol is W	Name 5 types of energy store	chemical, gravitational potential, kinetic, elastic, thermal
		State 3 ways that energy is transferred between stores	electric current, light, sound, heating
		Describe the energy transfer when a fuel burn	chemical, heating, light, thermal
		Describe how the energy store of an object is linked to its; speed, temperature, height, and compression What is meant by dissipation? State the energy dissipated by a moving object State 2 ways to reduce dissipation in a car	speed = kinetic, temperature = thermal, height = gravitational, compression = elastic energy is wasted  friction, air resistance aerodynamic design, reducing friction
			between the engine parts using oil, use insulation to reduce heat loss
		State what is meant by efficiency?	how much energy is transferred usefully and how much is wasted (dissipated)
		Give the equation for calculating efficiency	efficiency = useful energy out x 100 / total energy in

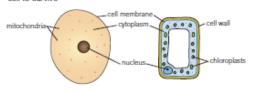
# Chapter 8: Organisms Knowledge organiser





### Plant and animal cells

- To be able to observe a cell we need to use a microscope, this
  magnifies the cell to a point to which we can see it
- Plant and animal cells have small structures inside known as organelles, each of these performs a certain role which allows the cell to survive



# Specialised cells

- Specialised cells are designed to carry out a particular function, because of this they have specific features and adaptations to allow them to carry this out
- Both plant and animal cells can be specialised, with these specialised cells working together to help the organism to survive

### The skeleton

- The skeleton is made up of 206 bones which are a type of tissue
- Bones have a blood supply and are a living tissue
- The skeleton is part of the muscular-skeletal system
- The four main functions of the skeleton are:
- To support the body to keep you upright and hold organs in place
- Protect organs such as the skull protecting the brain
- Movement by working with muscles to allow you to move
- Making blood cells the bone marrow produces red and white blood cells



### Muscles

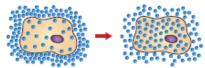
- Muscles are a type of tissue which allows movement
- They pull on tendons which in turn pull on bones to allow movement
- Muscles like the triceps and biceps are known as antagonistic muscle pairs, they work together –as one contracts, the other will relax

### Organs

- An organ is a group of tissues that have the same function
- They can work with other organs in an organ system, such as the respiratory system which uses organs like the heart and lungs to transfer oxygen around the body
- Vital organs are the organs that need to keep functioning for an organism to stay alive, e.g. the heart

### Movement into and out of cells

- The process in which substances move into and out of cells is known as diffusion
- · This occurs across the cell membrane
- During diffusion particles move from an area of high concentration, to an area of low concentration



before diffusion

 Oxygen and nutrients enter the cell by diffusion, carbon dioxide and waste products leave

### Movement

Joints occur between bones and allow movement, there are three main types of joints

Hinge For back and forward Ball and socket For movement in all directionse.g. hips Fixed

Do not allow movement,
e.g. skull

Joints have three main types of tissue:

movement, e.g. knees

Ligaments

Connect bone to bone

Cartilage Coats the end of bones Tendons

Connects bone to muscle

as a protection
hip bone cartilage tendon
knee cap



Make sure you can write definitions for these key terms.

antagonistic muscle pair bone bone ma

organism

cell concentra organ system skeleton specialised cells

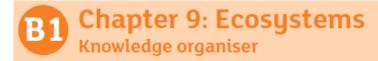
ligaments tendons

microscope

muscular skeletal system

muscle pair but in opposition to one another  Bone An organ that forms the skeleton of vertebrates  Bone marrow The soft blood-forming tissue that fills the cavity of bones  Cartilage Coats the end of bones as protection  Cell The building blocks of all living things  Concentration The density of particles in a stated volume  Diffusion The process where substances move into and out of cells  Joints Allow the movement between bones  Ligaments Tissue that connects bone to bone  Microscope Scientific apparatus used to observe objects too small for the naked eye  Muscular Skeletal and bones that provide system  Mucleus Hold's the genetic information of the cell  Organ A group of tissues that work together to perform a function  What is a tissue? Give an example wo an example wo an example wo as certain example. The same provide and example of each what is an organism? In a limit is a bone?  What is a bone?  State 4 functions of the sure skeleton organism or example of each what is a joint?	roup of tissues that ork together to perform ertain function roup of organs that ork together to perform ertain function
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Organ A group of tissues that work together to perform a function	ed - skull
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Organ A group of tissues that work together to perform a function What do ligaments do? column in a	at covers the ends of a
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together to perform a in a function	duces friction
function	nnects bones together
(2.00 to 10.00 to 10.	a joint
O TOTAL TOTAL CONTRACTOR OF THE TOTAL CONTRACTOR OF TH	
Organism A living thing that has an State why a muscle is a the	ey are made up of lots
organised structure of cells, tissue of	muscle cells working
tissues, and organs tog	gether
Organ system   A group of organs that work   What are tendons?   a t	ype of tissue that pull
together to perform a on	bones to help them
certain function in an mo	
organism	ove
Skeleton The supporting framework of What happens to the sho	ove
an organism length of muscles when	ortens
they contract?	

Keyword	Definition	Retrieval Question	Retrieval Answer
Specialised cells	Cells adapted to	What is meant by an	a pair of muscles that work
	carry out a function	antagonistic muscle	together, so when one
		pair?	contracts the other relaxes
Tendons	Tissue that connects	Describe how the	the bicep contracts and the
	muscles to bones	bicep and triceps	triceps relax to bend the arn
		work together	(vice versa to straighten it)
Tissue	A group of the same	State what all living	Cells
	cells carrying out a	organisms are made	\$1000000000000000000000000000000000000
	function	of	
Retrieval Question	Retrieval Answer	Retrieval Question	Retrieval Answer
What is diffusion?	the movement of	State what is meant	looking carefully and in deta
	particles in and out	by a scientific	at an object
	of cells from high	observation	***
	concentration to low		
	concentration		
What is meant by	the number of	Give the equation for	total magnification =
concentration?	particles in an area	calculating	eyepiece lens magnification
		magnification	objective lens magnification
State what uni-cellular	made up of just one	Name the 4 key	nucleus, cell membrane,
means	cell	components of animal	cytoplasm, mitochondria
		cells	
What is an amoeba?	a uni-cellular	Name the 3 key	chloroplasts, cell wall,
	organism found in	components only	vacuole
	water, soil, and animals	found in plant cells	
What is euglena?	a uni-cellular	Describe the function	cell membrane - controls
	organism found in	of the; cell	what can come in and out o
	fresh water that	membrane, cell wall,	a cell, cell wall - strengthens
	contain chloroplasts	chloroplast,	and provides support,
		cytoplasm,	chloroplast - where
		mitochondria,	photosynthesis happens,
		nucleus, vacuole	cytoplasm - where chemical
			reactions take place,
			mitochondria - where
			respiration happens, vacuol
			- contains cell sap
What is a flagellum?	a tail-like structure	What is a respiration?	a reaction that transfers
	that helps a uni-		energy for the organism
	cellular organism to		
D	move	Ct. t. th. C	
Describe how amoeba	binary fusion	State the function of a	carry electrical impulses
and euglena		nerve cell	around your body
reproduce		0	
State the function of a	absorb water and	State the function of a	transports oxygen around th
root hair cell	nutrients from soil	red blood cell	body
Name 2 substances	glucose, oxygen	State the function of a	carry male genetic material
that move into body		sperm cell	to the egg cell
cells	I	I	l .





### Food chains and webs

- Food chains show the direction in which energy flows when one organism eats another
- · The direction of the arrows represent the direction in which the energy flows
- . Food webs show how a number of different food chains are connected

# Food chain Food web herbivore – type of consumer that eats the producer that eats the producer cactus Insect Ilzard hawk cactus Insect Ilzard producer – green plant/ulgae that makes its own food carrivore – type of consumer that eats other animals other animals

- Producers are the organisms which start the food chain, they convert energy from the Sun, making their own food, these are often plants
- · Prey are organisms which are eaten by other organisms
- · Predators are the organisms which eat the prey

# Disruption to food chains

- Interdependence is the way in which living organisms rely on each other to survive
- A food chain will be disrupted if one of the organisms die out
- If the producer dies out the rest of the food chain will also die out unless they have a different food source
- If the consumer population die out the number of organisms which they eat will increase unless they are eaten by another organism
- Bioaccumulation is the process by which chemicals such as pesticides and insecticides build up along a food chain

# Parts of a flower

### Male part of the flower

Stamen

- The anther produces pollen
- The filament holds up the anther



### Carpel

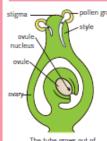
Female part of the flower

- The stigma is sticky to catch grains of pollen
- The style holds up the stigma
- The ovary contains ovules

# Pollination and fertilisation

Pollination is the fertilisation of the ovule, the point at which the pollen is transferred to the ovule from the anther to the stigma, there are two types of pollination

- · Cross pollination is between two different types of plant
- · Self pollination happens within the same plant







The tube grows out of the pollen grain and down through the style.

The pollen nucleus moves down the tube.

The pollen nucleus joins with the ovule nucleus. Fertilisation takes place and a seed will form.

**Germination** is the process in which the **seed** begins to grow, for this to occur the seed needs:

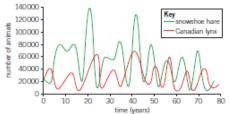
- . Water to allow the seed to swell and grow and for the embryo tostart growing
- . Oxygen for that the cell can start respiring to release energy forgermination
- . Warmth to allow the chemical reactions to start to occur within the seed

# Ecosystems

- All of the organisms which live in one area are known as a population
- An ecosystem is all of the organisms which are found in a particular location and the area in which they live in, both the living and non-living features
- A community are all of the areas in an ecosystem, the area in which the organisms live in is known as the habitat
- A niche is the specific role in which an organism has within an ecosystem, for example a panda's diet consists of 99% bamboo

# Competition

- · Competition is the process in which organisms compete with one another for resources
- · Animals compete for food, water, space and mates
- Plants compete for light, water, space and minerals
- . The best competitors are those who have adapted in order to best gain these resources
- As the number of a predator in a population increases the number of the prey will decrease as more are being eaten
- As the number of the predator decreases the number of the prey will increase as less are being eaten
- The relationship between the predator and the prey is known as a predatorprey relationship



(2) Keyterms

Make sure you can write definitions for these key terms.

bloaccumulation competition ecosystem fertilisation food chain aermination Interdependence carnel consumer food web population predator producer pollen pollination 566d sepal stamen

# CHRIST THE KING - KNOWLEDGE ORGANISERS

Keyword	Definition	Retrieval Question	Retrieval Answer
Anther	The part of a plant that	State what a food	It shows the transfer of energy
	produces pollen	chain is	between organisms
Bioaccumulation	The process by which	What is a producer?	A green plant/alga that makes its
	chemicals build up in a		own food by photosynthesis
	food chain		
Carpel	The female reproductive	What is a consumer?	An animal that eats plants or
	parts of a plant		other animals
Community	All the areas of an	What is the difference	Predator - an animal that eats
	ecosystem	between a predator	other animals, prey - is eaten by
	,	and prey?	another animal
Competition	Where resources are	What is a food web?	A set of linked food chains
	limited, and one species		2 10 14 m pm 11 m m m 12 m m m
	has more of that		
	resource than another		
Ecosystem	All the organisms which	What is a	An organism (bacteria/fungi) that
	are found in a location	decomposer?	break down dead plant an animal
	and the area in which	20	material
	they live		
Fertilisation	When a female sex cell	What is meant by the	The way in which living organisms
	joins with a male sex cell	term	depend on each other to survive,
		interdependence?	grow, and reproduce
Food chain	The direction in which	Describe what	The consumer population would
	energy flows as one	happens to the	also fall
	organism eats another	consumer population	
		if producer population	
		falls	
Food web	A diagram showing how	State one organism	Bees
	different food chains are	that is needed to	
	connected	pollinate crops	
Germination	The process in which the	State what a	The number of animals or plants
	seed begins to grow	population is	of the same species that live in
			the same area
Interdependence	The way living	State what is meant	The levels of chemicals that
	organisms rely on each	by bioaccumulation	accumulate (build up) in a food
	other to survive		chain
Niche	The specific role an	State what is meant	The name given to plants and
	organism has in an	by an ecosystem	animals that are found in a
	ecosystem		location/area in which they live
Ovary	Contains the ovule	State what is meant	The conditions found in a habitat
		by the environment	
Ovule	The part of plant	State what is meant	The area organisms live
	containing the ovum or	by a habitat	
	egg cells		
Petal	The brightly coloured	State what is meant	An area or role that an organism
	part of a flower	by a niche	has within an ecosystem
Predator	An animal that eats	State 4 resources that	Food, water, space, mates
	another animal	animals compete for	
Prey	The animal eaten by the	State 4 resources that	Light, water, space, minerals
	predator	plants compete for	

Keyword	Definition	Retrieval Question	Retrieval Answer
Producer	Organisms at the start of a food chain, they convert energy from the Sun	State what is meant by interdependence	Changes of one animal directly affects the population of the other
Pollen	The male sex cell of a plant	Describe the pattern in a typical predator- prey graph	When prey population increases, predator population increases, the growing predator population eat more prey and numbers start to fall
Pollination	The fertilisation of the ovule	State why flowers have petals	To attract insects
Population	All the organisms that live in one area	State where pollen is made	Anther
Seed	An embryonic plant in a protective outer covering	List 3 ways pollen can be transferred between plants	Wind, insects, animals
Sepal	The outer casing of a flower	Describe the function of the; anther, carpel, filament, stigma, style, ovary	Anther - produces pollen, carpel - female part, filament - holds up the anther, stigma - catches pollen, style - holds up the stigma, ovary - contains ovules (female sex cells)
Stamen	The male reproductive part of a plant	What is nectar?	A sweet sugary fluid found
Stigma	The part of a plant that catches the pollen	Describe what happens during fertilisation in plants	Pollen lands on a stigma, grows a pollen tube down the style, the nucleus travels down the tube and joins with the nucleus of the ovule
Style	The part of the plant that holds up the stigma	Name the part of the flower that becomes the fruit	Ovary
		State the 3 things needed for germination	Water, oxygen, warmth
		Name 4 methods of seed dispersal	Wind, animal, water, explosive
		Describe 2 features of seeds that are transported by the wind	Small mass, extensions that act of wings/parachutes
		Describe how animals can transport seeds internally and externally	Internally - animals eat fruits containing seeds, passed out through droppings, externally - seeds stick to animals and then drop off
		Describe 2 features of seeds that are transported by water	Small mass, waterproof

# CHRIST THE KING - KNOWLEDGE ORGANISERS

Year 7 DT – Resistant Materials		
Key Word	Definition	
Resistant Material	A group of materials that are grouped together because	
	they show certain common features	
Smart Material	Smart materials have a property that changes when their	
	environment changes e.g. heat, wet	
Softwood	Softwood comes from coniferous trees. These are trees	
	that keep their needles all year round, so they typically	
	grow faster than hardwood trees. Softwood trees can reach	
	a size where they can be cut thirty years.	
Hardwood	Hardwood comes from deciduous trees. These shed their	
	leaves each autumn. Hardwood trees can take one hundred	
	years to grow to a size where they can be harvested	
Manufactured	Manufactured boards are made by gluing particles or pieces	
board	of wood together. These can be the waste materials from	
	the cutting of hardwood or softwood or recycled woods	
Polymer	Polymers are made of a large number of similar, smaller	
	chemical units called monomers	
Thermo setting	Thermosetting polymers cannot be reshaped when heated.	
Thermo plastic	Thermoplastic polymers can be reshaped when heated	
	unless deformed	
Ferrous Metal	Metals that contain iron, will rust	
Non-Ferrous Metal	Metals that don't contain iron, but will tarnish	
<b>₹₩Ω</b> ¥ & Modern Mater	aMixture of two or more metals	

Material	Smart property	Typical use
Thermochromic pigments	Changes colour with temperature.	Plastic strip thermometers. Mugs or spoons that change colour when hot.
Photochromic	Changes colour	Lenses in sunglasses that get darker as
pigments	with temperature.	the light gets brighter. Security markers that can only be seen in ultraviolet light.
Shape memory	If bent, will return	Spectacle frames
alloys (SMA)	to its original shape when heated.	Sensors in fire sprinkler systems. 3



# Polypropylene

- Polypropylene is normally tough and flexible.
- Polypropylene is reasonably economical.
- Polypropylene has good resistance to fatigue.
- Processed through injection or blow-moulding production
- Available in a range of colours
- Can be easily cleaned and is generally chemical resistant

# Types of thermoplastic polymer

Туре	Common uses	Characteristics
Acrylic and Per	spex windows, bath	Can be transparent, hard wearing
	tubs	and tough. Softens 85°C - 165° 4
High density	Pipes, buckets,	Strong and stiff.
polyethylene	bowls	Softens at about 130°C.
(HDPE)		
PET	Drinks bottles,	High strength and toughness and
	food packaging	heat resistant. Softens about 80°C.
High impact	Packaging nosetting polymer PS)	Good toughness and reasonable
polystyrene (HI	PS)	strength. Softens about 90°C.
Туре	Common uses	Characteristics
Polyester resin	Car bodies, boats,	4 Good strength & stiffness. Very good
	suitcases/luggage	temperature resistance.
Melamine	Laminate coverings for	Stiff, hard, strong, resistant to many
formaldehyde	kitchen worktops	chemicals and stains.
Polyurethane	Foam insulation panels,	Hard with high strength, flexible and
	hoses, sealants	tough.

# Sustainability

- Renewable energy sources are naturally replenished by nature they will never run out and do not create carbon emissions in use.
- Wind power uses wind to turn turbines. However, it only works when it is windy, so needs a way of storing energy.
- Hydropower uses the movement of tides or water flowing through a dam to turn a generator, however, it is expensive to set up.
- Solar power makes electricity directly from sunlight without needing a turbine, however, it only works when there is daylight

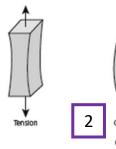
# Year 7 DT – Resistant Materials

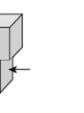
# **Types of Hardwoods**

Туре	Common uses	Characteristics
Oak	High quality	Very strong and hard
Ouk	furniture	Light brown colour
Mahogany	High quality	Fairly strong and durable
iviallogally	furniture	Pink to reddish brown colour
Beech	Wooden toys,	
beech	•	Hard and tough, but easy to work with
Ash	household items	Light brown with darker brown flecks
Asn	Tool handles,	Tough and flexible
	sports	Light, creamy-brown colour
	equipment	
Balsa	Modelling	Soft – can be marked using a finger
Types of So	ftwoods	Off-white to tan colour
	Common uses	Characteristics
Type		
Pine	Interior	Fairly strong, easy to work with
	structures in	Light brown or yellowish colour
	buildings,	
	furniture	
Spruce	Wooden aircraft	Strong and hard, but low resistance to decay
Types of Ma	arfránceured Boards	Yellowish-white colour
Туре	Common uses	Characteristics
Medium	Low-cost	Made from fine particles of timber, mixed
density	furniture,	with glue and compressed together.
fibreboard	interior panelling	Smooth, even surface, easily machined.
(MDF)		
Chipboard	Kitchen worktops	Made from coarse chips of timber, mixed
	(covered with a	with glue and compressed together.
	laminate)	Rough surface with uneven texture.
Plywood	Furniture making	Made from layers of veneer (plies), glued
		together. Surface looks like timber.









Shear To

A The effects of different forces

# Types of Ferrous Metals

/ I				
Туре	Common uses	Alloying elements		1
Cast iron	Anvils, engineering vices	Typically 3-3.5% carbon	3	ı
Low carbon steel	Nails and screws, car bodies, steel sheet	Less than 0.3% carbon		
High carbon steel	Tools such as saw blades, hammers, chisels	0.8-1.4% carbon		

# Types of Non-Ferrous Metals

Туре	Common uses	Characteristics
Aluminium	Drinks cans, pans, parts for aeroplanes	Costs more than steel, good corrosion resistance, lower density than steel
Copper	Electrical wires, water pipes	Excellent conductor, malleable

# Types of Alloys

Туре	Common uses	Characteristics
Stainless Steel	Knives and forks, medical equipment, sinks	Cleans up well, Hygienic, good strength. At least 11.5% chromium
Brass	Statues, door knobs	Brass is an alloy of copper and zinc; bronze is an alloy of copper and tin

# Year 7 GR – Graphics Products

1	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 product.
	What it should do, who it is aimed at, etc.
Score	The process of making a crease in <b>card</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
	metre.

<u> </u>	,		
L	<u>-</u>	Paper Manufacture	
1		Trees chopped down and logs put into a rotating drum to remove the bark.	
2	П	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 to dissolve the lignin in the wood. This create pulp.	
4	Pulp is washed to remove the colouring from the chemicals. Bleach is		
		added to ensure the paper is white.	
5 Pulp is mixed with water and put through various rotating blades. Dye		Pulp is mixed with water and put through various rotating blades. Dyes	
		may also be added at this stage to colour the paper.	
6	П	Pulp is added to the paper machine and water is removed along the way.	
	1	The pulp is put through a range of rollers. Pressure is applied throughout to	
	1	remove water. Some rollers are heated.	

ACCESS FM—Product Analysis			alysis
7	1	A—Aesthetics	What does the product look like? Colours, shape, pattern, texture and appearance
	2	C—Cost	How much does it cost to buy, to make?
	3	C—Customer	Who is the product aimed at? Who will use it? Who will buy it?
	4	E—Environment	What impact on the environment is there from the start of the products life to the finish? Can it be recycled?
	5	S—Size	What are the dimensions? – measured in mm
1	6	S—Safety	What safety considerations are there for the product?
	7	F—Function	What does the product do and how does it work?
	8	M—Materials/ Manufacture	What is it made from and how is it made?

	Gra	ıms per sq	uare meter (GSM)	4	
	1 35gsm This is very thin paper indeed. Most newspapers will common 55gsm be printed on this thickness of paper.				
]	2	80gsm 100gsm	This is the weight of most household printer paper. The type paper you might use in school.	of	
	3 120gsm This range covers the paper thickness of most posters you are likely to find. Sturdy enough to withstand a bit of wear and tea				
	4	210gsm 300gsm	,		
	5 350gsm 400gsm This GSM is essentially card. It will stand up under its own weight and is most commonly associated with premium flyers and business cards and high-quality wedding invitations.				
6 450gsm This range of GSM is moving towards very thick card & 700gsm mountboard					

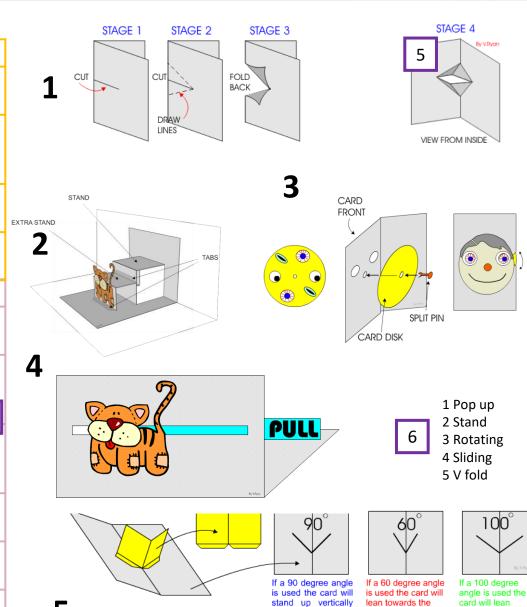
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back when the

backing card is

# Year 7 GR – Graphics Products

		Tools	5	
1	Craft Knife	A knife with a retractable blade. We use it in Graphic cut and score.	A knife with a retractable blade. We use it in Graphics to cut and score.	
2	Metal Rule	A basic measuring tool that prevents the ruler from getting damaged when used with a craft knife. They have ridges to protect the users fingers.	getting damaged when used with a craft knife. They often	
3	Adhesive	A type of glue used to stick components together. It also be in the form of a cement or paste for heavier j		
4	Split Pin	A fastener that is inserted into punched holes in a stapaper before being bent to secure them.	ack of	ř
		Paper/ card mechanisms		
1	Pop up	A pop up feature that fits on the crease of the paper/ card Often used to create mouths for characters		۱.
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		1
3	Rotating	A disk that rotates, usually used in conjunction with a window cut into a piece of card that goes over the displit pin secures the two pieces together.		_
4	Sliding	A moving component that moves across the page with the use of a slide bar.		ž
5	V-Fold	A feature that stands up from the page. V folds have to be created on the crease of the paper or card.		)
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		



when the backing

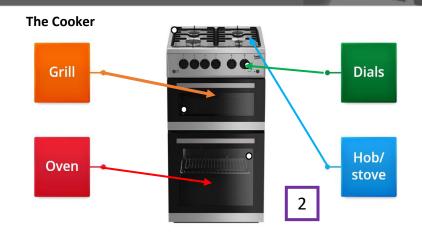
card is opened.

back when the

backing card is

opened.

Year 7	Year 7 FPN – Food Preparation & Nutrition		
Key Word	Definition	1	
The Eatwell Guide	The Eatwell Guide is a Government guideline which car used to help people plan a healthy diet	be	
Complex Carbohydrates	A range of foods that provides the body with slow releating energy.	ise	
Fruit  The sweet and fleshy product of a tree or other plant t grows from a flower, contains seed and can be eaten a food			
Vegetables	A plant or part of a plant used as food, such as a cabbage potato, turnip, or bean.	ge,	
Protein	A protein is a naturally occurring, extremely complex substance that consists of amino acid. Meat, fish, nuts a pulses are a rich source of protein	and	
Fats	Fats is the term usually used for fats that are solids at re temperature. Examples of are butter, margarine, and la Oils are also a kind of Fat		
Dairy	Food that are made from cows milk		
Heat Transfer	Heat transfer describes the flow of heat (thermal energous due to temperature differences	gy)	
Cooker	The piece of equipment that we use to heat food		
Hob	The top part of the cooker. Conduction heat transfer		
Grill	The part of the cooker that has radiant heat generated the top.	from	
Oven	The main part of the cooker. Heat is generated from the sides and sometimes has a fan at the back to help with convection heat transfer		
Dial	A control knob		
Microwave Oven An oven that uses microwaves to cook or heat food. I can be Defrosted, warmed or cooked in this type of o Uses Radiation as heat transfer			
Hydration	The <u>process</u> of making <u>your body absorb</u> <u>water</u> or other <u>liquid</u>		
Fibre  Dietary fibre or roughage is the portion of plant-derived food that cannot be completely broken down by human digestive system			



A *Cooker* is the overall name for the piece of equipment used to cook food. It can be broken down into 4 main sections

Hob or Stove – Dials - Grill - Oven

# **Parts of the Cooker**

- Some cookers have a combination grill/oven in the same space
- Some cookers have a gas hob, some have an electric hob.
- Some cookers have a gas grill, gas oven and hob

type of heat transfer. Part of Cooker- Hob

- Some cookers are all electric
- Some cookers have a gas hob but an electric oven

In Food, Preparation and Nutrition, (FPN) we use the 4 'C's' to remember food safety: Clean, Cook, combat Cross Contamination, Chill

Heat Transfer	Image
<b>Convection</b> combines conduction heat transfer and circulation to force molecules in the air to move from warmer areas to cooler ones. <b>Part of the Cooker- Oven</b>	3
In cooking, <b>Radiation</b> is the process where heat and light waves strike and penetrate your food. <b>Part of the Cooker- Grill. Also a Microwave Oven</b>	
<b>Conduction</b> is the process of heat being transferred between objects through direct contact, and it's the most common	

Fridge Temperature 5 Degrees Celsius
Freezer Temperature -18 Degrees Celsius
Danger Zone Between 6 and 63 Degrees Celsius

Being active is

important for

# Year 7 FPN – Food Preparation & Nutrition

### **Food Selection**

- People around the world choose and combine different food to make meals and snacks. The total amount and range of food and drinks consumed is called the diet.
   A healthy diet is made from a variety of different food and drinks, as depicted in The Eatwell Guide. Being active is important for health, making the body fitter and stronger.
- There are many different types of food from around the world.
- People all around the world need a variety of food from different food groups to have a healthy diet.

 Dishes and meals eaten around the world often comprise similar food (or ingredients) combined in different ways Activity should make: you feel warmer; you breathe harder; your heart beat faster.

**(M)** 



Children should be les: active for 60 minutes a day.

health.

Moderate activity includes: Dancing, riding a bike.

Vigorous activity includes: Football, swimming.

# Parts of a pizza

Tomato sauce Fruit and vegetables Ham, Beans, pluses, fish, eggs, meat & other proteins

Base - Potatoes, bread, rice, pasta and other starchy carbohydrates Cheese
Dairy and alternatives

6

Fruit and vegetables
Eat at least five portions
every day.

Foods high fat, salt and sugar
This type of food is not needed to be healthy. If eaten, have less often and in small amounts.

4

Beans, pulses, fish, eggs, meat and other protein Eat some foods every day.



Hydration
Water and lower fat milk
are healthier drink
choices.

A max of 150ml of juice or smoothie a day.

Potatoes, bread, rice, pasta or other starchy carbohydrates. Eat a food from this group at every meal. Go for wholegrain varieties.

Oils and spreads
Eat in small amounts.

Dairy and alternatives Have some of these foods every day, e.g. a pot of yogurt and a cheese sandwich. Water

Drink plenty of fluids – the government recommends 6 to 8 cups or glasses a day

The Eatwell Guide is a
Government guideline which
shows the general public the
proportions in which
different types of foods are
needed for a well-balanced
and healthy diet. The
Eatwell Guide can be used to
devise meals and snacks.

Source: Public Health England in association with the Welsh government, Food Standards Scotland and the Food Standards Agency in Northern Ireland

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# CHRIST THE KING - KNOWLEDGE ORGANISERS

Year	Year 7 F&F – Fabric & Fibres			
Key word Fibre Fabric		Definition		1
		A fibre is the smallest element of a fabric; it looks like a human hair.		oks
		Textile fabrics are woven or knitted from <b>yarn</b> , which is made from <b>fibres</b> :		
Woven		Fabric which construction at right angles to each	cted by interlacing two yan other	rns
Natural Fibro	е	Natural fibres are fro	m <b>plants</b> and <b>animals</b>	
Synthetic Fil	ore	Man-made fibres, suc	ch as those made from oil	
Knitted		Fabric which is constructed using interlocking loops		
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)		
Biodegradak	ole	They decompose/rot		
Natural From Plants Anima  Synthetic Mann From and ga		<b>Fibres</b> veral sources and can b	e either:	3
		plants or animals. — Cotton and Linen als - Silk and Wool	They are renewable, sustainable and biodegradable	
		nade/ manufactured) fossil fuels (coal, oil as). , Polyester, acrylic	Cannot be replaced, do not decompose and contribute to environmental problem 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.	
Linen	is made from the inner bark of the flax plant. The plants have a straight stalk with blue flowers, and are grown mostly in Europe.	Products made from linen include teatowels, tablecloths and summer clothing.	a
Silk	is made from the cocoon larvae of the silkworm and was first developed in China.	The fabric is smooth, soft texture and one of the strongest natural fibres.	d is
Wool	is taken from the coats of sheep and other animals, such as goats, alpacas and even rabbits!	It is used for clothing, suits, blankets furniture upholstery. However, wool shrink and is not as durable as cottor silk.	can
Nylon	is made by combining chemical taken from coal, water, air, petroleum, natural gas and agricultural byproducts.	Nylon is lightweight, strong, durable resistant to damage. Nylon is used to make swimwear, umbrellas and waterproof bags.	
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 clothing su as shirts, jackets and furnishings.	ich







# Year 7 F&F – Fabric & Fibres

Construction	Properties	Details	Example
Weaving 4	Weaving is a method of making fabric on a piece of equipment called a weaving loom. Woven Fabrics are strong and stable.	The yarns that go horizontally in direction across the loom are called weft yarns The threads that lie in a vertical direction in the loom are called warp yarns	Warp direction Straight grain Selvedge
Knitting	Knitted fabrics are stretchy, comfortable and warm to wear. Weft knit: the rows of knitting in weft knitted fabric interlock with each other during the knitting process.	In weft knitting, the loops that run horizontally are called courses, and the threads that run vertically down the knitted fabrics are called wales. Weft knitted fabrics can be created on flat bed machines or circular knitting machines.	Course

# **Adding colour**

# Adding Colour to Fabric

Most fabrics start out as beige or white (loomstate).

There are 2 main ways to add colour to textiles – **Dyeing and Printing.** 

Printing	Fabric printing is a fun
	way to add colour and
	pattern to textiles and
	can be done using
	various methods.

There are many ways to do this both by hand and by machine.

- Block Printing
- Screen Printing
- Roller Printing
- Transfer Printing

# Dyeing Fabric dyeing involves soaking fabric in a dye

soaking fabric in a dye bath so that it absorbs the colour into the fibre There are many ways to do this:

- Tie dye
- Batik
- Space dye
- Dip Dye

5

Embroidery	Use	Process	Image
Running Stitch	This is used to hold fabric in position while it is being permanently stitched. Or create a dashed line.	To make a running stitch, bring the needle and thread up through the first hole then down through the next.	
Back Stitch	Used to create a solid line and join fabric together securely.	Bring the thread through on the stitch line and then take a small backward stitch through the fabric.	
Cross Stitch	Used to create decorative pictures	Bring the needle through on the lower right and take it through to the back one block up and one block to the left, bringing it through to the front again one block down to form a half cross. Continue in this way to the end of the row, and then complete the upper section of the cross.	

# **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.

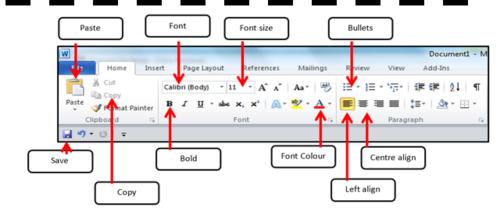


# Microsoft Teams

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.
- 2) Remove friends as appropriate.
- 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.
- 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

t1 0

# 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

URLs contain a misleading domain name

- You didn't initiate the action
   You're asked to send money to cover expenses
- The message contains poor spelling and grammar 6) The message makes unrealistic threats
- The message asks for personal information 8) The message appears to be from a government agency
- 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









# What would you?

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

- 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