

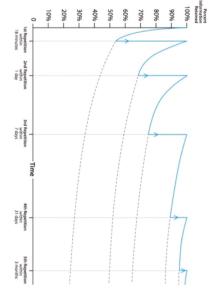


# **Knowledge Organisers**

successful in each subject. remember the core and powerful knowledge that is required to be building a seven-year revision strategy that supports you to by helping you to understand how to learn and revise. We are students achieve. We use knowledge Organisers at Christ the King to help all Knowledge Organisers improve your confidence

ensuring that knowledge is committed to long-term memory recall activities, known as retrieval practice, are an effective way of your limited working memory by storing key facts and processes in whereas long-term memory is effectively limitless. You can support memory is limited, and can very easily become overloaded involves working memory and long term memory; working lost over time if it is not revisited. A simple model for memory your long-term memory. Research evidence indicates that regular The Ebbinghaus Forgetting Curve demonstrates that knowledge <u>.</u>.

# Rate of Forgetting with Study/Repetition

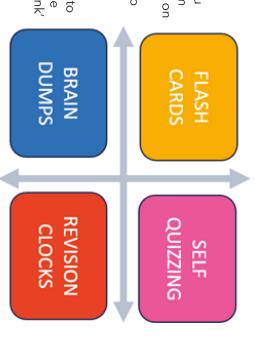


this highlight the essential 'golden knowledge' in yellow to support your learning. use your knowledge organiser in your lessons, in tutor time, and during homework tasks. An important aspect of your be given your knowledge organiser in a plastic wallet along with a homework booklet - the expectation is that you bring core knowledge is secured, you will be in a strong position to use and apply this knowledge in a range of contexts. You will revision for assessments and end-of-year examinations will be to use the knowledge organisers for self-quizzing. If this At the start of each term, you will receive a knowledge organiser booklet that contains content for all subject areas. You will to school every day - it should be placed on your desk in every lesson, ready to use. Geography and History

# How to use your Knowledge Organiser

The best way to use your knowledge organisers is to regularly use one of our Core 4 Revision strategies as part of your home learning. These strategies will be explained to you in more detail in tutor time, by your class teachers and as part of your Personal Development lessons.

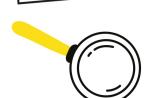
- 0 Flash Cards: Use the information from your knowledge organiser to create flashcards - these could be double sided with a question on one side and the answer on another, or a keyword on one side and the definition on the other.
- **O Self Quizzing:** There are different ways you can self-quiz:
- Look, cover, write, (say), check
- Create gaps fills
- Create questions for the information you want to learn and then answer them from memory
- 0 your memory. You then check the information against the information on writing down everything you can about a topic you want to revise from Brain dumps: These are a small but powerful revision strategy which that you know which information you need to revisit, either through your Knowledge Organiser - you then mark your work and add any good to use at the end of topics. An effective brain dump involves you using flash cards or self-quizzing. missing information onto your brain dump in a different colour pen, so memory, ready for you to recall it into your working memory. They are help makes the information 'sticky' so that it goes into your long-term
- 0 information linked to that. They are effective as they allow you to 'chunk' Revision Clocks: Revision Clocks are a blank clock shape - divided into up the core knowledge from the topic into the segments. You can use colours and pictures to make the information more 'sticky'. 12 segments. In each segment put a sub-heading and then include the



| Children learn<br>4,000 to 12,000<br>words per year<br>through reading, |
|---|
|---|



Reading for 6 minutes a day reduces stress by 68%.



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

| 20 Minutes<br>Per Subject<br><b>Subject 1</b> | Monday<br>Science    | <b>Tuesday</b><br>English | y Wednesday<br>Find the second se | Thursday<br>Maths<br>(Sparx) | Friday<br>Science |
|---|----------------------|---------------------------|---|------------------------------|-------------------|
| ubject 1                                      | Science              | English                   | English   | Maths<br>(Sparx              |                   |
| Subject 2                                     | RE                   | Maths                     | RE  | Drama                        | ۵<br>س            |
| Subject 3                                     | Music<br>(Practical) | History                   | Technology<br>/ IT  | MEL                          |                   |

|                           |         | We      | Week 1             |          |           |
|---------------------------|---------|---------|--------------------|----------|-----------|
| 20 Minutes<br>Per Subject | Monday  | Tuesday | Wednesday          | Thursday | Friday    |
| Subject 1                 | English | Science | Maths<br>(Sparx)   | Maths    | English   |
| Subject 2                 | RE      | PE      | RE                 | Science  | Geography |
| Subject 3                 | Music   | History | Technology<br>/ IT | MFL      | Art       |
|                           |         |         |                    |          |           |

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

**Homework Schedule** 

This will consist of:

0 0

Knowledge Organiser and Online Learning as directed by your teachers. If you have no tasks set, carry out Knowledge Organiser activities as per the Knowledge

0

Two periods of 20 minute reading each week.

Organiser timetable below.



# What are the homework expectations?

Each homework must meet the following 5 requirements:

- 0 Write the complete title and date in full e.g Wednesday 7th June 2023 on each page and underline
- 0 You should include minimum of words to summarise the topic. Do not copy the words from the text.
- 0 Make full use of the page for each topic by scaling your notes and images appropriately to use all the space
- 0 try to use humour. You must include diagrams, sketches, or cartoon doodles to visually represent the topic,
- 0 Highlight key words and phrases, using underlines and highlighter pens, and explain technical terms.

# How should I present my work?

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

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





## DON'T FORGET!

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



| 1. Formal<br>Elements | Definition  | Visual   | <sup>3.</sup> PAI   | BLO PICASSO ARTIST   |
|-----------------------|---|--|---|--|
| Colour Theory         | Colour theory is the study of how colours<br>work together and how they affect our<br>emotions and perceptions. It helps artists,<br>designers, and creators to help them<br>choose the right colours for their projects. | Very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very<br>very | Mougins France in<br>including painting<br>WHY? Pablo Picas<br>Artists. He is parti | casso was born in Malaga in Spain in 1881 and died in<br>n 1973. He produced many pieces of art in his long career<br>s, sculptures, and drawings.<br>sso is considered to be one of the most famous Modern<br>cularly famous for his Abstract artworks, especially the art<br>m'. His work has gone on to influence generations of artist |
| Shape                 | Shapes can be two-dimensional or three-<br>dimensional enclosed areas. They can be<br>geometric (circles, squares, rectangles,<br>triangles) or organic (freeform, natural,<br>erratic and irregular).                    | Geometric Shapes<br>Organic Shapes   | and designers and<br>world.<br>HOW? Pablo Picas                                     | his work can be seen in galleries and museums all over the<br>sso's Abstarct style was greatly influenced by African<br>sefacts. He was attracted to the simplified shapes, strong   |
| Form                  | Form refers to the three-dimensional aspect of an object, adding depth and  |  | 4. Keywords   | Definition   |
|                       | volume.   | 2  | Complimentary<br>Colours  | Two colours which are opposite of each other on the colour wheel which can create a contrast.  |
| 2. Processes          | Definition  |  | Abstract Art  | Is artwork which does not try to represent an accurate or<br>realistic view of the world, but instead uses colours,<br>shapes, forms and gestural marks to achieve its effect.   |
| Colour mixing         | This term applies to mixing two or more colo new colour or tone.  | urs together to create a   | Realistic Art   | Is artwork which attempts to show an accurate and detailed representation of nature and life.  |
|                       |   |  | Portraiture   | Is an artwork, often of a person's face, which may be<br>created by using any type of medium - drawing, painting,<br>photograph, sculpture etc.  |
| Blend                 | The process of fusing two tones or colours to another or to create a new tone or colour.  | transition from one to   | Medium  | The material used to create a piece of artwork.  |

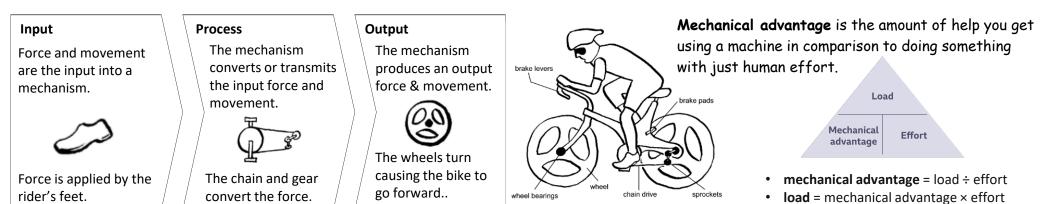


#### **D&T - Mechanisms**

| 1. Keywords       | Definition  | 3. Types of motion - | - There are 4 basic types of motion:                          |
|-------------------|---|----------------------|---|
| 1. Mechanism      | Mechanical devices change an <b>input</b> force and movement into a desired <b>output</b> force and movement. They can change magnitude and direction of force.                   | Rotary               | Moving in a circular direction, for                           |
| 2. Cam            | Cam's are used to convert rotary motion in to reciprocating. A rod, known as a follower rests on the cam and rises and falls as the cam rotates.                                  | C                    | example a wheel<br>turning.                                   |
| 3. Lever          | A lever is a mechanical device used to transmit and transform the effect of forces.<br>The input force is transferred through the lever to move a load.                           | Oscillating          | Moving back and<br>forth in an ARC, for<br>example a pendulum |
| 4. Linkage        | Levers can be joined together to make linkages. Linkages can change an input motion + force into an output motion + force.  |                      | swinging.   |
| 5. Pully and Belt | Pulleys use mechanical advantage, similar to levers, to lift up loads.  | Linear               | Moving ONE way in a straight line for                         |
| 6. Gear train     | <i>Gear trains</i> are when two or more gears are joined together. In a simple gear train, the <i>drive gear</i> causes the <i>driven gear</i> to turn in the opposite direction. |                      | example using a paper<br>trimmer.                             |
|                   |   | Reciprocating        | <b>.</b>  |

#### 2. System Diagrams

A system is made up of several parts that work together as a whole, to carry out a function. They require and **input**, a **process** and an **output**. A mechanism can make a force bigger or smaller and can change movement direction. The diagram below shows the mechanical process for riding a bike.



• **effort** = load ÷ mechanical advantage

Moving back and forth

in a straight line, for

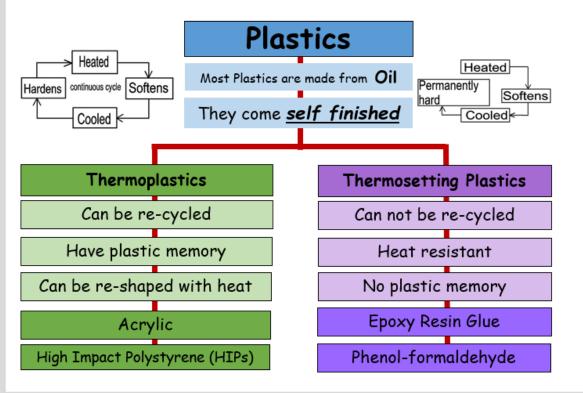
sewing machine.

example a needle in a



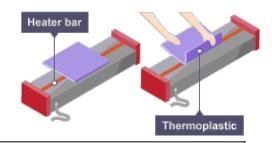
#### **D&T - Plastics and Health & Safety**

| Key words        |  | Tools      |            |  | Know your safety signs |              |  |
|------------------|--|------------|------------|--|------------------------|--------------|--|
| 1. Thermoplastic | Polymers that can be softened through<br>heating before being processed and then<br>left to cool and harden. Once cooled, they<br>show no changes in chemical properties,<br>meaning they can be re-melted and re-used | Try Square |            | Used for marking out<br>and checking 90°<br>angles on wood,<br>metal or plastic. | PROHIBITION            | MANDATORY    |  |
|                  | several times.   |            |            | A saw used to cut  |                        |              |  |
| 2. Thermoset     | A polymer-based material that is insoluble and non-melting   | Coping Saw | the second | wood and plastic. Its<br>think blade makes it<br>ideal for cutting               | <b>DON'T DO</b>        | MUST DO      |  |
| 3. Acrylic       | A clear, strong, stiff plastic. Acrylic is   |            | 24         | curved lines.  |                        |              |  |
|                  | available in many colours.   |            |            | A file is a tool used  |                        |              |  |
| 4. Jig           | A device that holds a piece of work.   | File       |            | to remove fine<br>amounts of material  |                        |              |  |
| 5. Marking out   | the process of marking lines and positions on piece of work.   |            |            | from a piece of work.  | DANGER                 | THE SAFE WAY |  |



#### Line bending:

Once the acrylic is cut it can be bent. It needs to be heated to around 150 to 170 °C to bend without cracking, after cooling the bend produced remains the same. A Jig an be used to ensure the bend is accurate.



| Process of converting   | oil to plastic  |  |  |
|---|---|--|--|
| Extraction  | Raw materials, such as crude oil, are extracted from the ground.                                |  |  |
| Transportation  | Transport oil to the refinery.  |  |  |
| <b>Refined</b> Crude oil is separated into liquids and gases.                                 |   |  |  |
| PolymerisationPolymerization occurs, which is just a term for converting gases into polymers. |   |  |  |
| Compounding   | The last step is compounding, where different materials are blending together to make plastics. |  |  |



#### **D&T - Textiles**

| 1. Key word  | Definition   | 3.   | Fibres come   | e from sev                       | eral so   |
|--|--|--|---|----------------------------------|---|
| 1. Fibre   | A fibre is the smallest element of a fabric; it looks like a human hair.                                       | Na   | atural  | From pla<br>animals.             | nts or  |
| 2. Fabric  | Textile fabrics are woven or knitted from <b>yarn</b> , which is made from <b>fibres.</b>                      | (  |   | Ş                                | R   |
| 3. Seam  | This is the join where two or more pieces of fabric meet. An unfinished seam leaves the edges open to fraying. | Sy   | inthetic  | Manmac<br>fossil fue<br>and gas. |   |
| 4. Renewable   | This means that it can replaced by new growth so that it does not run out.                                     | Construction   |   |                                  |   |
| 5. Fossil fuels  | Non-renewable sources such as coal, coal products, natural gas, crude oil and petroleum products.              | Weaving  |   |                                  | Desc<br>Wov<br>inter                              |
| 6. Sustainable   | ble They are replaced at a rate equal to or greater than the rate at which they are used).                     |  |   |                                  | angle<br>The v<br>fabri<br>lengt                  |
| 7. Bio-degradable  | The ability for a material to be broken<br>down naturally by the organisms in an<br>ecosystem.                 | Kr   | nitting   | 0                                | Weft<br>or m                                      |
| 8. Degradable They can be broken down into very small parts. |  |  | 20 20 20 20 20<br>20 20 20 20<br>20 20 20 20<br>20 20 20 20 | - <u>89</u> -<br>                | inter<br>the f                                    |
| 9. Standard<br>components                                    | These are a range of components that can<br>be bought ready made such as zips, buttons<br>and Velcro.          | nese are a range of components that can<br>e bought ready made such as zips, buttons |   |                                  | Warı<br>that                                      |
| 2. Equipment<br>Embroidery<br>Scissors                       | Iron Fabric Shears   | Bc   | onded   |                                  | Bond<br>fibre<br>glue,<br>pund<br>Felt i<br>toget |
|  |  |  |   |                                  |   |

| <b>B. Fibres</b> come | e from seve                      | eral sources a   | nd can be either:  |                         |  |
|-----------------------|----------------------------------|--|--|-------------------------|--|
| Natural               | From pla<br>animals.             | nts or   | <b>Plants</b> – Cotton and<br>Linen.<br><b>Animals</b> - Silk and<br>Wool.   | rer<br>sus              | ey are<br>newable,<br>stainable and<br>odegradable.  |
| Synthetic             | Manmad<br>fossil fue<br>and gas. | e from<br>e <b>ls</b> -coal, oil                                   | Nylon, Polyester,<br>acrylic.  | de<br>en                | nnot be replaced, does not<br>compose and contributes to<br>vironmental problems if they end up<br>landfill.   |
| Construction          |                                  |  |  | Properties and Examples |  |
| Weaving               |                                  | interlacing<br>angles to ea<br>The <b>weft</b> ru                  | ins along the width of th<br>he <b>warp</b> runs along the   | e                       | Woven Fabrics are <b>strong</b> and <b>stable</b> they are used to make:   |
| Knitting              |                                  | or machine<br>interlocking<br>the fabric.<br><b>Warp knitt</b>     | ng can be made by hanc<br>using yarn that forms<br>gloops across the width<br>ing is made by machine<br>vertical interlocking loop   | of                      | Knitted fabrics are <b>stretchy</b> ,<br><b>comfortable</b> and <b>warm to wear</b> they<br>are used to make:<br>Clothing, such as jumpers and<br>cardigans. |
| Bonded                |                                  | fibres that a<br>glue, heat, s<br>punching.<br><b>Felt</b> is made | <ul> <li>fibres that are bonded together with glue, heat, stitches or needle punching.</li> <li>Felt is made from matting wool fibres together using moisture, heat and</li> </ul> |                         | Bonded fabrics <b>do not fray</b> but are <b>weak</b> , they are used to make:   |



| Printing       | Printing involves<br>pressing a pattern<br>directly on to the<br>fabric. This can be<br>done by machine<br>or by hand. | <ul> <li>There are mar</li> <li>Block Printi</li> <li>Screen Print</li> <li>Roller Print</li> <li>Transfer Pr</li> <li>Sublimatio</li> </ul> | nting<br>ting<br>inting |
|----------------|--|--|-------------------------|
| Dyeing         | Fabric dyeing<br>involves soaking<br>fabric in a dye<br>bath so that it<br>absorbs the colour<br>into the fibre.       | There are mar<br>• <b>Tie dye</b><br>• Batik<br>• Dip dye  | ny ways to do this:     |
| Embroidery     | Description  |  | Image                   |
| Running Stitch | This is a small even s<br>back and forth throu<br>without overlapping  | igh the cloth,   | ۶                       |
| Back Stitch    | Individual stitches ar<br>backwards to the ge<br>direction of sewing.<br>durable than running                          | neral<br>It is more  | 2                       |
| Cross Stitch   | A type of counted er<br>that uses little crosse<br>create a tiled pattern  | es or 'x's to  | XXXXXXX                 |
| Blanket Stitch | This stitch reinforces<br>fabrics to prevent th<br>fraying. It is also use   | em from  | ×                       |

decorative finish.

#### Applique

Applique is where fabric is sewn on to another piece of fabric using hand or machine stitches. It is mainly used to add decoration and colour, but can also have a function, for example to strengthen or repair the knee area on children's trousers.

BURR

#### Biomimicry

Biomimicry involves looking at nature for inspiration to solve engineering problems and to develop innovative new designs for products and architecture. ----> VELCRO









We can also be inspired by nature when considering the patterns and shapes of products.

#### Fairtrade

Cotton is one of the world's biggest crops. As many as **100 million rural households** (90 percent of them in lower-income countries) rely on cotton production for their livelihoods.

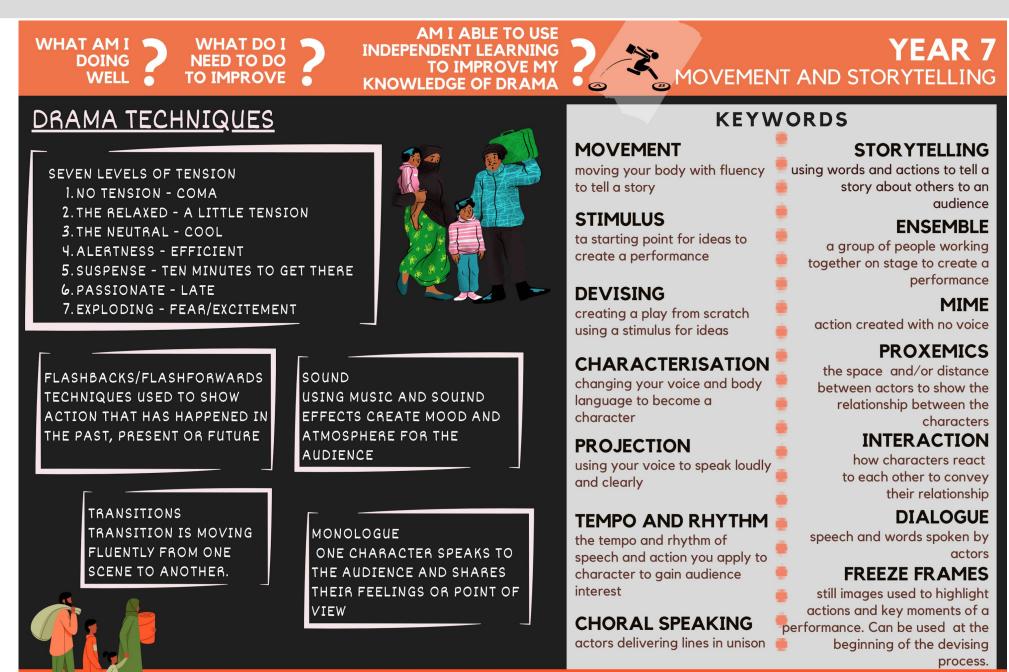
**Fairtrade** ensures that farmers in lower-income countries get a fair price for their produce. It also aims to improve pay, working conditions, rights for workers as well as more environmentally friendly and sustainable products.



#### terial Properties Grows on a cotton plant in a Takes dye well, soft, strong, ton ball called a boll, fibres are absorbent, recyclable, used tural combed and spun into a yarn. in clothing. Strong and versatile, it holds Can be woven or knitted, thick vester thetic or thin and available in a colour and washes well. variety of colours, can be blended with other fibres for better properties.

#### **Drama - Movement and Storytelling**

#### CHRIST THE KING - Knowledge Organisers

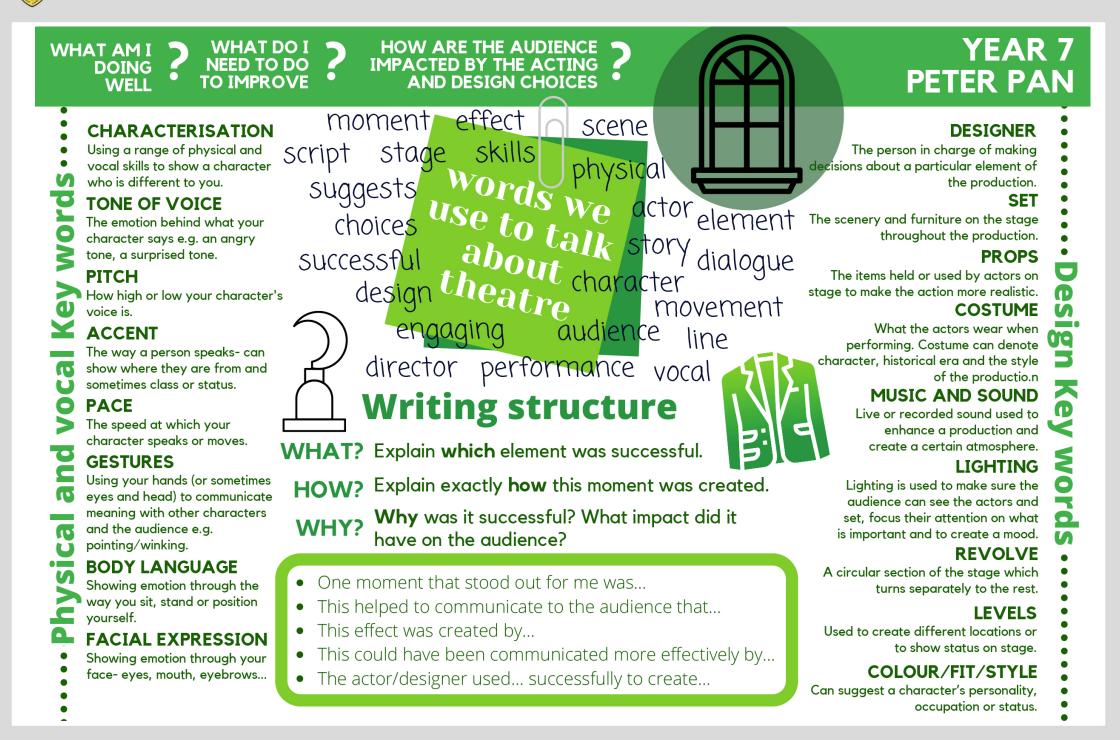


AN EVACUEE IS A PERSON WHO HAS TO BE MOVED FROM A DANGEROUS PLACE

A REFUGEE IS SOMEONE SEEKING A SAFE PLACE IN ANOTHER COUNTRY

#### Drama - Peter Pan

CHRIST THE KING - Knowledge Organisers



#### **1. Key Language Devices Used by Writers**

| adjective            | word that gives more information about a noun   |  |  |
|----------------------|---|--|--|
| alliteration         | repetition of the same first letter   |  |  |
| emotive language     | language that is chosen to make the reader feel an emotion  |  |  |
| imperative verb      | a verb that gives an order or command   |  |  |
| first person pronoun | a word that stands in place of a noun – it can be just refer to one person (I, me, my, mine) or to more than one person (we, us, our, ours) |  |  |
| juxtaposition        | when two ideas are put close together, although they are very different   |  |  |
| metaphor             | a description of something as though it were something else, that uses a direct comparison  |  |  |
| personification      | when an object is given human qualities   |  |  |
| repetition           | words or phrases repeated to bring attention to an idea   |  |  |
| rhetorical question  | a question that is asked for effect and is not a request for informatio   |  |  |
| rhyme                | when two or more words have similar sounds, particularly at the end of lines in poetry  |  |  |
| simile               | a comparison introduced by 'like' or 'as'   |  |  |
| verbs                | a word used to describe an action (many verbs identify states or feelings rather than actions and can be very emotive / effective)          |  |  |
| volta                | a shift in mood or attitude   |  |  |

#### 2. Key Terms for Poetry

**ballad** - a poem or song that describes tragic events in short stanzas, often with a moral purpose

**context** – information such as: where and when the text was written, who it was written by, and what was happening at the time when it was published.

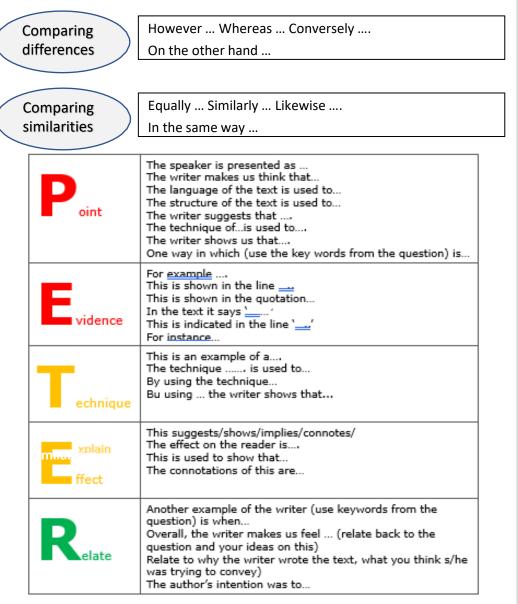
**purpose** - the reason why a poet chose to write the poem – his or her intention **speaker** – a character or voice that the poet has created when the

poem was written. The poet writes the text and is not necessarily the same as the speaker.

stanza - a grouped set of lines within a poem (another way of saying verse)
title - the name of a poem, play, novel – that may give the reader some ideas about the text

#### 3. Key Connectives You Can Use for Comparison

**comparing** – identifying differences and similarities between two texts **analysing** – being able to explain the poet/s choices of form and language and comment on the effect





#### **English - Myths and Legends**

| 1. Key Words                           |                                     | 2. What features might a myth   | 3.Technique     | Definition   | Example   |
|--|-------------------------------------|---|-----------------|--|---|
| Exciting Verb                          | Exciting                            | have?   | adjective       | A describing word  | She created the spiralling mountains.                   |
| Choices                                | Adjective                           | 1. Set in ancient times.  | verb            | An action or being word  | A giant scallop shell glided to shore.                  |
|  | Choices                             | 2. Fantastical things can happen.   | personification | When an object is given human  | She hears the whisper of leaves.                        |
| unrelenting<br>whispered<br>blighting  | emaciated<br>prominent<br>perpetual | <ol> <li>Characters often have<br/>superpowers.</li> <li>They serve as a moral</li> </ol> | metaphor        | attributes<br>Comparing one thing to something else<br>by saying that it is that thing | The trees are shadows in the darkness of the forest.    |
| blistering<br>stretching<br>shrivelled | frantic<br>brittle<br>brave         | 5. They might explain how something came into being in                                    | Simile          | Comparing one thing to something else<br>by saying it is like that thing               | At night that lake burns like a torch.                  |
| hammering<br>ricocheting<br>resounding | gigantic<br>terrifying              | the natural world.<br>6. They have elements of the<br>supernatural                        | alliteration    | When two or more words start with the same vowel sound                                 | The cold, cramped cave sat high up on the mountain.     |
| pulsing<br>recoil                      |                                     | <ol> <li>7. May feature a hero.</li> <li>8. Explain the actions of gods.</li> </ol>       | sibilance       | The repetition of the s sound in two or more words in a sentence.                      | The slavering, shuddering, slobbering three headed dog. |

| 4.Sentence Openers         |  | 5.Sentence |
|----------------------------|--|------------|
| Way of starting a sentence | Example  | type       |
| Use a connective           | While the rain poured down, Eros sat and wept bitter tears.              | Simple     |
| Using an ing clause        | Stomping his colossal feet, Thor demanded attention.                     |            |
| Using an ed clause         | Moved by his own beauty, Narcissus gazed lovingly at his own reflection. | Compound   |
| Using a simile             | As gently as a lamb, Cerberus lay down and fell asleep.                  |            |
| Using an adverb            | Angrily, Grendal raised his giant fist and struck out at Beowulf.        |            |
| Using a preposition        | In the middle of the forest, Ndidi came across something mysterious.     | Complex    |

#### 6.How to punctuate speech:

1. The words spoken by a character sit inside speech marks:

"Did you hear that noise?" whispered Sam.

2. Speech marks are sometimes known as inverted commas or quotation marks.

3. Some writers use double speech marks and some use single speech marks. You can use either type as long as you are consistent!

4. Every time there is a new speaker in the conversation, a new line is used.

5. Each new section of dialogue is like beginning a new paragraph, so in a printed novel you will see that each new line is also **indented**.

6.Each new line of direct speech should also start with a capital letter. 7.Each section of direct speech should **end with a punctuation mark**. 7.Essential elements for a story

<u>...</u>

Setting

Characters

Plot

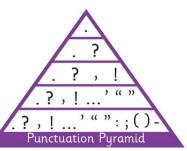
Moments of tension

Climax

Resolution

| 5.Sentence | Definition                        | Example                     |
|------------|-----------------------------------|-----------------------------|
| type       |                                   |                             |
| Simple     | main clause only with a subject,  | The girl walked down the    |
|            | an object and a verb.             | street.                     |
| Compound   | can be broken down into two       | The girl walked down the    |
|            | separate sentences and features a | street and then she crossed |
|            | connective to join them.          | the road.                   |
| Complex    | features a main clause with extra | At two o' clock in the      |
|            | detail added and commas used to   | morning, the girl walked    |
|            | separate clauses.                 | down the street,            |
|            |                                   | accompanied by a small dog. |
| Minor      | One, two or even three words      | Walking silently.           |
|            | used for dramatic effect.         | A girl.                     |
|            |                                   | Darkness.                   |

3.



#### 8.To build tension in writing you could:

- 1. Spend time setting the scene
- 2. Drop hints to the reader
  - Create pauses for dramatic effect

4. Use minor sentences and paragraphs to slow the pace.

#### **Food Preparation & Nutrition - A Healthy Balanced Diet**

#### 1. The 4 C's



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

| 3. Heat Transfer a | nd Cooking Methods   |   |  |
|--------------------|--|---|--|
| Conduction         | The transfer of heat from one object to another<br>by <b>direct contact.</b><br>Metal is a good conductor of heat.   | Dry frying,<br>stir frying                          |  |
| Convection         | The transfer of heat energy by the movement<br>of molecules, in <b>a liquid or in the air</b> , from a<br>warm area to a colder area.<br>Molecules rise as they heat up and then fall<br>back down again as they cool creating<br>convection currents. | Baking,<br>boiling,<br>poaching<br>and<br>steaming. |  |
| Radiation          | The process where heat and light waves strike<br>and penetrate your food through<br>electromagnetic energy.<br>Heat energy in radiation is in the form of  | Microwave<br>cooking,<br>grilling and<br>toasting.  |  |

#### 2. Using a knife safely



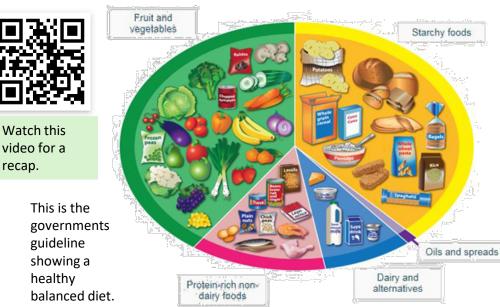
Claw



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

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

#### 4. The Eatwell Guide



infrared heat rays.

#### Food Preparation & Nutrition - A Healthy Balanced Diet

| 5. 8 tips for a heal               | thy lifestyle   |  | Nut  |  |  |  |  |
|------------------------------------|---|--|------|--|--|--|--|
| •Base your meals on starch         | ny foods.   |  | Carl |  |  |  |  |
| •Eat lots of fruit and vegetables. |   |  |      |  |  |  |  |
| •Eat more fish.                    |   | Itrie  | Prot |  |  |  |  |
| •Cut down on saturated fa          | t and sugar.  | Macronutrients   |      |  |  |  |  |
| •Try to eat less salt- no mo       | re than 6g a day  |  | Fat  |  |  |  |  |
| •Get active and try to be a        | healthy weight. 📜 ኛ 📢 🦍   | o.   |      |  |  |  |  |
| •Drink plenty of water.            | the re-real law time  |  |      |  |  |  |  |
| •Don't skip breakfast.             |   | nts  | Vita |  |  |  |  |
|                                    |   | ⊔lrie  | AB   |  |  |  |  |
| 6. Key Terms                       |   | 7. Micronutrients  | Min  |  |  |  |  |
| 1. Cross contamination             |   |  |      |  |  |  |  |
| · ·                                | another.  | $\parallel$  | and  |  |  |  |  |
| 2. Diet                            | The type of foods that a person eats. Some people<br>have special diets depending on their age or needs.Fibre |  |      |  |  |  |  |
| 3. Nutrients                       | Nutrients are chemical compounds in food that are   |  |      |  |  |  |  |
|                                    | essential for the body to function properly and maintain health.  | Wa   | ter  |  |  |  |  |
| 4. Macro nutrients                 | These are nutrients that are needed by the body in  | 8  | 8.   |  |  |  |  |
|                                    | large quantities; they are Carbohydrates, Proteins and Fats.  | 1  |      |  |  |  |  |
| 5. Micro Nutrients                 | These are nutrients that are needed by the body in small amounts; they are vitamins and minerals.             |  | Chu  |  |  |  |  |
| 6. Health                          | This defines your physical wellbeing. Good health indicates that you are free from illness.                   | Cho<br>This defines your physical wellbeing. Good health |      |  |  |  |  |
| 7. Enzymic browning                | n oxidation reaction that takes place in some   |  |      |  |  |  |  |

foods, mostly fruit and vegetables, causing the food

to turn brown.

|                   | Nutrient                    | Function   | Food sources                                  |  |  |
|-------------------|-----------------------------|--|---|--|--|
| ents              | Carbohydrate                | This is the primary source of <b>energy</b> it also makes you feel full.   | Bread, pasta, rice and potatoes.              |  |  |
| Macronutrients    | Protein                     | The bodies building block. Helps the body to grow and repair itself.   | Nuts, eggs, fish, meat,<br>beans and pulses.  |  |  |
| 6. Mac            | Fat                         | This is used as a secondary source of <b>energy</b> . It helps to <b>insulate</b> the body and maintains <b>brain function</b> .     | Meats, cheese, butter, oils, nuts and seeds.  |  |  |
| s                 | Vitamins                    | There are many different vitamins and they play  | Fruits and vegetables,                        |  |  |
| 7. Micronutrients | ABCD                        | a vital role in keeping <b>skin, eyes, hair</b> and <b>blood</b><br><b>healthy</b> .   | meats, dairy, eggs,<br>cereals, sunlight etc. |  |  |
| cron              | Minerals                    | Minerals help your body grow, develop and  | Dairy, vegetables, fish,                      |  |  |
| 7. Mi             | Calcium, iron<br>and sodium | meat, cereals etc.   |   |  |  |
| Fibr              | e I i i i                   | Prevent <b>constipation</b> , increase the feeling of <b>fullness</b> , reduce the risk of heart disease, diabetes and some cancers. | Wholegrain cereals, fruits and vegetables.    |  |  |
| Water             |                             | Keeps you <b>hydrated</b> , controls body temperature, helps kidneys filter waste.   | Fruit, vegetables, milk,<br>soup.             |  |  |
| 8.                |                             | Weighing scales Sieve  | Measuring spoons                              |  |  |
| Chopping board    |                             | Grater   |   |  |  |
|                   |                             | Peeler Coo   | oling rack                                    |  |  |
| ľ                 | Measuring jug               | Frying Pan Vegetable knife Rolling   | pin Colander                                  |  |  |



| French   |    | English   |
|--|----|---|
| Pendant mon temps libre je fais beaucoup de choses   | 1  | In my free time, I do lots of things  |
| Deux fois par semaine je joue aux jeux-vidéos  | 2  | Twice a week I play video-games   |
| avec mon père ce qui est difficile mais fascinant  | 3  | with my Dad which is difficult but fascinating  |
| Souvent je vais au centre-sportif et je fais de l'exercice avec mes amis.  | 4  | Often, I go to the sports centre and I do exercise with my friends.                                   |
| Quand il fait beau j'aime jouer aux boules cependant   | 5  | When it is nice weather, I like to play boules however  |
| quand il pleut je fais de la natation  | 6  | when it rains, I <u>do</u> swimming   |
| Je dirais que la natation est plus fatigante que les boules.   | 7  | I would say that swimming is more tiring than boules.   |
| Ce weekend je vais aller au parc où je vais jouer au foot, ce sera génial.   | 8  | This weekend I am going to go to the park where I am going to play football it will be great.         |
| Normalement, le soir, j'aime regarder la télé avec ma famille au salon.  | 9  | Normally in the evening, I like to watch TV with my family in the living room.                        |
| Surtout nous adorons les comédies et les documentaires.  | 10 | We especially love comedies and documentaries.  |
| Parfois nous allons au cinéma, je préfère les films romantiques  | 11 | Sometimes we go to the cinema, I prefer romantic films  |
| mais mon frère aime les films d'horreur.   | 12 | But my brother likes horror films   |
| J'écoute de la musique tous les soirs dans ma chambre. J'adore la musique pop,<br>mon chanteur préféré est Harry Styles. | 13 | I listen to music every evening in my bedroom. I love pop music, my favourite singer is Harry Styles. |
| Cependant mes parents aiment la musique rock, c'est nul !  | 14 | However, my parents like rock music, it's rubbish!  |



#### **Geography - Topic 2 - Russia**

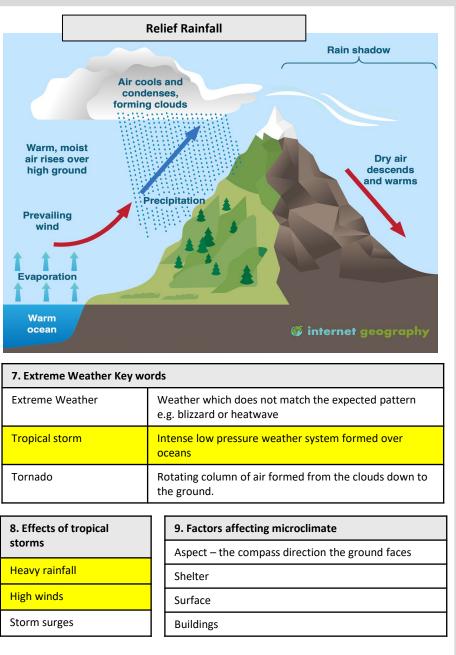
| 1. Facts about        | the location of Russia   |  | 6. Population key word | ds  |  |
|-----------------------|--|--|------------------------|---|--|
| Largest country       | y in the world by area   |  | Population Density     | Number of people living in a given area   |  |
| In both Europe        | and Asia   |  |                        |   |  |
| Coastline on th       | ne Arctic and Pacific Oceans   |  | Densely populated      | Many people living in an area   |  |
| 2. Physical feat      | tures key words  |  | Sparsely populated     | Few people living in an area  |  |
| Marsh                 | Low-lying area which is flooded in<br>wet seasons or high tide and is<br>waterlogged |  |                        | Calculating population density  |  |
| Mountain              | A large elevation rising to a summit   | <ul> <li>3. Climate Graphs</li> <li>Climate graphs contain three pieces of information</li> <li>Months (x-axis)</li> </ul> |                        | PopulationAreaPopulationDensity   |  |
| Mountain<br>Range     | A series of connected mountains  | <ul> <li>Temperature in degrees Celsius (line graph)</li> <li>Precipitation in millimeters (bar chart)</li> </ul>          | 8. Sectors of Industry |   |  |
| Peninsula             | A piece of land almost surrounded  | °C mm 300  | Primary sector         | Includes jobs in which people extract raw<br>materials                              |  |
|                       | by water or projecting into a body<br>of water                                       | 40<br>30<br>30<br>250  | Secondary sector       | Includes jobs in which people make products out of raw materials often in factories |  |
| Permafrost            | Permanently frozen ground found<br>in tundra and polar regions                       | Temperature 20 200 Precipitation 150   | Tertiary sector        | Includes jobs in which people provide a service for others                          |  |
| Plain                 | Flat area at a low elevation   | 0 100  | Quaternary sector      | Includes jobs in which people research and  |  |
| Plateau               | Flat area at a high elevation  | -10 50   |                        | invent things using advanced technology   |  |
| River                 | A large stream of water flowing in a channel to the sea, a lake or                   | -20<br>JFMAMJJASOND  | Raw materials          | Basic materials, e.g. wood or metal which can<br>be used to make something          |  |
|                       | another river  | 4. Biomes in Russia: Taiga   |                        |   |  |
| Steppe                | A large area of flat unforested  | Coniferous forests   | 9. Economy in Russia k | key words   |  |
|                       | grassland in SE Europe or Siberia  | Found in the Northern Hemisphere in countries including including Russia, UK, Canada and Sweden.                           | Commercial farming     | Farming to make a profit  |  |
| Volcano               | A mountain or hill through which<br>lava, rock, gas and ash has<br>erupted           | 5. Plant adaptations in the Taiga  | Subsistence farming    | Farming to provide food for yourself – anything left after can be sold.             |  |
|                       |  | Evergreen trees  | Livestock              | Animals reared to make a profit   |  |
| The flag of<br>Russia |  | Thick, resinous bark   |                        |   |  |
|                       |  | Pinecones  | 10. Levels of Developm |   |  |
|                       |  | Long, shallow roots  | HIC                    | High Income Country   |  |
|                       | of   | Trees have long, thin needles  | NEE                    | Newly Emerging Economy  |  |
|                       |  | Downward sloping and springy branches  | LIC                    | Low Income Country  |  |



#### **Geography - Topic 3 - Weather and Climate**

| 1. Key words  |       |  |   | ] [    | 4. Тур         |  |
|---|-------|--|---|--------|----------------|--|
| Weather   |       | The state of the atmosphere at a particular place and time |   |        | Relief         |  |
| Precipitation   |       | Any water fallin<br>as rain, snow ar                       | g from the sky such<br>nd hail.                         |        | Conve          |  |
| Air pressure  |       | The weight of th<br>on the earth                           | ne air pushing down                                     |        | Fronta         |  |
| Air mass  |       | Body of air with   | uniform conditions                                      |        | 5. We          |  |
| Anticyclone   |       | High pressure s<br>stable weather                          | ystem leading to<br>conditions                          |        | Anticy         |  |
| Depression  |       | Low pressure sy<br>unsettled weat                          | vstem leading to<br>ner                                 |        | High p         |  |
| Front   |       |  | Boundary between two air masses – one hot and one cold. |        |                |  |
| Microclimate  |       | Variations of we   | Variations of weather within a place                    |        |                |  |
| 2. Measuring Wea  | ather |  |   | i      | Coole<br>night |  |
| Weather   | ι     | Jnit   | Instrument used   |        | Cold, (        |  |
| Temperature   |       | Degrees<br>centigrade                                      | Thermometer   |        |                |  |
| Air pressure  | r     | Villibars  | Barometer   |        | Frost a in win |  |
| Sunshine  | ł     | Hours  | Campbell-Stokes sunshine recorder                       |        | 6. Fac         |  |
|   |       |  |   |        | Latitu         |  |
| Wind speed  | ŀ     | Knots  | Anemometer  |        |                |  |
| Rainfall  | ſ     | Millimetres  | Rain gauge  |        |                |  |
| Cloud Cover   | (     | Oktas  |   | Distan |                |  |
| 3. Formation of ra  | ainfa | II   |   |        | from t<br>sea  |  |
| 1. Warm air rises and cools                               |       |  |   |        |                |  |
| 2. Cool air reaches the dew point and condensation occurs |       |  |   |        |                |  |
| 3. Clouds form  |       |  |   |        |                |  |
| 4. Cloud grows an rainfall occurs                         | d wh  | en it can no longe   | r hold the moisture                                     |        | Prevai<br>wind |  |

| 4. Types of rainfall           |  |                   |   |  |  |
|--------------------------------|--|-------------------|---|--|--|
| Relief                         |  |                   | when air is forced to rise<br>land areas                          |  |  |
| Convectional                   |  | Caused<br>the gro | by prolonged heating of und                                       |  |  |
| Frontal                        |  |                   | by cold and warm air<br>g in the atmosphere                       |  |  |
| 5. Weather sy                  | yste   | ms                |   |  |  |
| Anticyclone                    |  |                   | Depression  |  |  |
| High pressure                  | ġ  |                   | Low pressure  |  |  |
| Clear and dry<br>– can lead to |  |                   | Changing unsettled<br>weather over a period of<br>days            |  |  |
| Cooler temperatures at night   |  |                   | In the UK they come from<br>the Atlantic and move<br>West to East |  |  |
| Cold, dry days                 | s in v   | winter            | Cold front brings showers<br>and strong winds                     |  |  |
| Frost and fog<br>in winter     | com  | imon              | Warm front brings light rain and light winds                      |  |  |
| 6. Factors aff                 | ectir  | ng climate        | 9   |  |  |
| Latitude                       | Position on the earth north or south of<br>the equator. Heat is concentrated at the<br>equator and less concentrated at high<br>latitudes. |                   |   |  |  |
| Distance<br>from the<br>sea    | Water retains heat much longer than land, keeping places warmer for longer.  |                   |   |  |  |
| Altitude                       | Height of the land above sea level –<br>Higher altitude leads to colder<br>temperatures.   |                   |   |  |  |
| Prevailing<br>wind             | The direction from which most wind usually blows   |                   |   |  |  |





#### **Geography** - Topic 4 - Settlement and Urbanisation

| 1. Population k         | key words   | 3. Early factors in cho<br>settlement location | oosing                          | 6a. Challenges<br>in HIC urban<br>Opportunit  |                       |   |  |   |   | Central Business District (CB  |            |                            |        |                                       |             |                                      |                   |                                   |  |
|-------------------------|---|--|---------------------------------|---|-----------------------|---|--|---|---|--|------------|----------------------------|--------|---------------------------------------|-------------|--------------------------------------|-------------------|-----------------------------------|--|
| Population              | Change in the number of people  | Flat land                                      |                                 | areas   | in HIC urban<br>areas |   |  |   |   | Industry along transport route   | ,          |                            |        |                                       |             |                                      |                   |                                   |  |
| change                  | in a specified area over time   | Raw materials                                  |                                 | Traffic<br>congestion   |                       | nsport links  | C/NI   |   |   | Shanty towns   |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Birth Rate              | Number of babies born per<br>1,000 of population  | Water supply                                   |                                 | Derelict  |                       | se-knit   | 8. L   |   |   | Basic housing  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Death Rate              | Number of deaths per 1,000 of   | Defendable site                                |                                 | buildings   |                       | nmunities   |  |   |   | High cost housing  |            |                            |        |                                       |             |                                      |                   |                                   |  |
|                         | population  | Fertile soil                                   |                                 | Lack of green   | Entertainment         |   | 1  |   | 8. LIC/NEE Urban Land-Use Model   |  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| 2. Settlement a         | and Urbanisation key words  | Shelter  |                                 | space<br>Crime  | and<br>Ret            | l leisure<br>ail  | -  |   | Shanty<br>towns   | Self-built housing on the edge   | of cities  |                            |        |                                       |             |                                      |                   |                                   |  |
| Site                    | The place the settlement is located   | 4. Settlement<br>Hierarchy                     | primate<br>city or              |   |                       | 7. Urban Tran   | nsport Sy  | ystems  | Basic<br>housing  | Formally constructed housing services such as water and electronic services such as water and electronic services such as water and services such as water and services such as water and services servic |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Situation               | Where the settlement is in<br>relation to other settlements<br>and surrounding features | Increase in the                                | large cities or<br>conurbations | increasing  |                       | Integrated<br>Public<br>Transport                                   | of tra   | ining modes<br>nsport for ease<br>fficiency of use                        | High-cost<br>housing  | Similar in structure and style to found in HICs  | o those    |                            |        |                                       |             |                                      |                   |                                   |  |
| Cattlement              | -   | size of settlement,                            | cities                          | number of<br>settlements  |                       |   |  |   | 9. Causes of u  | rbanisation in LIC/NEE Cities  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Settlement<br>hierarchy | Order of settlements in a region<br>or country by population OR<br>services             | services                                       | large towns                     | large towns small towns   |                       | Congestion<br>Charge  |  | ing polluting<br>or entering an<br>area                                   | Natural Increase Birth rate is higher than deat                           |  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Land-use                | The function of the land – what   |  | small towns                     |   |                       | Park and  |  | are parked on   | Rural-urbanThe movement of people frommigrationcountryside to cities      |  | from the   |                            |        |                                       |             |                                      |                   |                                   |  |
|                         | it is used for.   |  | villages<br>hamlets             |   |                       | Ride  |  |   | Push factor A reason a person has for le                                  |  | leaving a  |                            |        |                                       |             |                                      |                   |                                   |  |
| Terraced<br>Housing     | Row of similar houses joined together by their side walls                               |  |                                 |   | hamlets               |   | hamlets  |   | hamlets   |  |            |                            | driver | drivers take public<br>transport from | Pull factor | A reason a person has for            | r moving to a     |                                   |  |
| Traffic                 | Slow speeds, longer travel times  |  | isolated house or fai           | rms   |                       | there to the CBI  |  |   |   | place  | , j        |                            |        |                                       |             |                                      |                   |                                   |  |
| congestion              | and queues when traveling in a vehicle.   |  | 5. HIC Urbar                    | 1 Land-Use Model  |                       | 10. Challenges in LIC/NEE Urban Areas                               |  |   |   |  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Derelict<br>building    | Empty building which is no longer used and in a poor state                              |  | CBD                             | Central Business District.<br>The commercial centre o   |                       | Central Business District.<br>The commercial centre of              |  |   |   |  |            | The commercial centre of   |        | Healthca                              | are         | Lack of access to<br>midwives        | o healthcare faci | ities and trained doctors, nurses | s and  |
|                         | of repair.  |  |                                 | an urban area.  | an urban area.        |   | on   | Not enough schools and a shortage of teachers. Wages are low for teachers |   |  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Retail                  | The selling of goods  |  | Inner<br>City                   | Mainly terraced housing<br>in grid patterns, originally<br>built near to factories to<br>house workers. |                       | in grid patterns, originally<br>built near to factories to Energy s |  | upply   | pply Not all the population have access to running water in an urban area |  |            | area                       |        |                                       |             |                                      |                   |                                   |  |
| Regeneration            | Improving the buildings and landscape to provide benefits                               |  | City                            |   |                       |   |  | built near to factories t   |   | built near to factories t  |            | built near to factories to |        | built near to factories to            |             | built near to factories to Energy su |                   | supply                            | Shortages of supply because homes are not properly connected to the energy grid. |
|                         | for an area   |  | Suburbs                         | Residential area mainly<br>made up of private, ser<br>detached housing.                                 |                       | Crime   | Crime Lack of education and jobs mean some turn to crime for income. |   |   |  |            |                            |        |                                       |             |                                      |                   |                                   |  |
| Urbanisation            | The increasing percentage of a population living in urban areas                         |  |                                 |   |                       | Informal  |  | Poorly paid jobs<br>these jobs  | s with no benefit   | s and no tax is paid to the gover  | nment from |                            |        |                                       |             |                                      |                   |                                   |  |
| Megacity                | A city with a population of over<br>10 million people                                   |  | Rural-<br>Urban<br>Fringe       | The edge of a city wh<br>it meets the countrys  |                       | Air pollu   |  | -   | on and pollutant  | s from factories in the air create   | smog and   |                            |        |                                       |             |                                      |                   |                                   |  |



#### History - Who Held Power In The Middle Ages?

| 1. Key people            |   |   | 3. Medieval Church  |  |  |
|--------------------------|---|---|---|--|--|
| Monarch                  |   | A King or a queen   | Churches were important as meeting places – most people went to Church at least   |  |  |
| Henry II<br>(1154-1189)  |   | King of England from 1154 until his death in 1189. He believed the Church had too much power, so challenged   | once a week.  |  |  |
| (1154 1165)              |   | this. Responsible for the death of Thomas Becket.   | In 1066, there were around 1000 monks. By 1300, there were over 12,000 monks in England.  |  |  |
| King John<br>(1199-1216) |   | John was very unpopular. In 1215, John was made to<br>sign the Magna Carta by his barons – which limited his<br>power.                                      | Hospitals were run by priests not doctors – people used prayer to cure illness not medicine   |  |  |
| Henry III<br>(1216–1272) |   | He tried to break the terms of Magna Carta, which led to<br>a rebellion. He was forced to agree to the setting up of a<br>Parliament.                       | Ideas about Heaven/Hell were very important to people. People lived their lives following the Church's rules so they'd go to heaven when they died.                 |  |  |
| Thomas Becket            |   | Became Archbishop of Canterbury in 1162.  | 4. Magna Carta  |  |  |
| Simon de Montfort        |   | Known also as 'The Father of Parliament'. One of the<br>leading barons in England. Captured Henry III at Battle of<br>Lewes and called a Parliament in 1265 | King John was very unpopular in England. He charged high taxes, offended his barons and tried to interfere in religious matters.                                    |  |  |
| Richard II               |   | Becomes king of England aged 12.<br>Helped defeat the Peasant's Revolt and kept the Feudal<br>System.   | John was excommunicated by the Pope which stopped all religious services in England<br>for 7 years  |  |  |
| 2. Keywords              |   |   | His Baron's made John sign Magna Carta (the Great Charter) setting out the rights th they had.  |  |  |
| Magna Carta              | The do  | ocument that King John was forced to sign by the barons in  |   |  |  |
|                          |   | hat limited some of his power.  | 5. Henry III, Simon de Montfort and Parliament  |  |  |
| Black Death              |   | sease that affected England from 1348 onwards. It is<br>ated that it killed 40% of the population.  | John's son; Henry III, also had arguments with his baron's. Henry tried to raise taxes to fight in the Pope's Holy Wars, often without asking his barons            |  |  |
| Epidemic                 | <b>pidemic</b> A widespread occurrence of an infectious disease in a community at one time. |   | One of his barons, Simon de Montfort, forced Henry to sign the Provisions of Oxford.  |  |  |
| Parliament               | ParliamentMade up of Members of Parliament (MPs) who advise the<br>monarch and pass laws    |   | When Henry broke the Provisions of Oxford, de Montfort led a rebellion against the king. Henry was captured and Simon de Montfort called England's first parliament |  |  |
| Martyr                   |   | one who dies standing up for their religion. They're<br>ated by their religion.   | consisting of 2 commoners from each region. This became known as the House of Commons.  |  |  |
| Excommunicate            |   | ope officially exclude (someone) from participation in the<br>nents and services of the Christian Church  |   |  |  |

#### History - Who Held Power In The Middle Ages?

| 5. Henry III, Sim  | non de Montfort and Parliament  |  | 6. Impact of Black Death |   |  |  |
|--|---|--|--------------------------|---|--|--|
|  | ry III, also had arguments with his baron's. Henry tried to raise   | Social Impact  |                          | Political Impact  |  |  |
|  | the Pope's Holy Wars, often without asking his barons   | Whole villages were  | wiped out.               | Demands for higher wages contributed to the<br>Peasants Revolt (1381) and the weakening of the<br>feudal system.  |  |  |
| When Henry bro   | oke the Provisions of Oxford, de Montfort led a rebellion against   | Religious Impact   |                          | Economic impact (money)   |  |  |
| the king. Henry of<br>parliament cons<br>the House of Co | was captured and Simon de Montfort called England's first<br>isting of 2 commoners from each region. This became known as | Damage to Catholic Church<br>because experienced priests died;<br>others had run away. |                          | Plague created food shortages: so the price of food<br>went up, creating more hardship for the poor.<br>Landowners switched to sheep farming as this needed<br>fewer workers. Farm workers demanded higher<br>wages and were less willing to be tied to the land and<br>work for the feudal landlord. |  |  |
| 3. Black Death   |   |  |                          |   |  |  |
| Plague   | A disease which spreads quickly often causing the formation of buboes   | 5. Peasants' Revolt  | 1                        |   |  |  |
| Miasma   | What medieval people called 'bad air' which they believed   | Revolt   | A break away             | or rise against authority/ people in charge   |  |  |
|  | would make you ill.   |  |                          | tions, Black Death, inequality between rich and poor,   |  |  |
| Beliefs  | 4 humors, God, planets, cats and dogs   |  | taxes                    |   |  |  |
| Treatments   | Lancing buboes, drain pus, rebalance the humors   | Consequences   | 2000 people              | executed, rebellion crushed   |  |  |
| Preventions  | Prayer, moved house, used smoke and herbs   | 7. Timeline  |                          |   |  |  |
|  |   | 1154   |                          | Henry II Becomes King   |  |  |
| 3. Mansa Musa  |   | 1170   |                          | Murder of Thomas Becket   |  |  |
| Mansa Musa rul   | ed of Mali, a kingdom in West Africa, from 1312-1337  | 1198   |                          | John becomes King   |  |  |
| He is considered   | the richest man that ever lived   | 15 <sup>th</sup> June 1215   |                          | Magna Carta is signed   |  |  |
|  | Ith came from gold and salt. He was a devout Muslim and went  | 1216   |                          | John dies and his son Henry III becomes king  |  |  |
| to Mecca in 132  |   | 1258   |                          | Henry III tries to break Magna Carta  |  |  |
| Africa)  | n 60,000 people, 21,000 kilograms of gold and 80 camels. (West  | 1264   |                          | First Parliament is called  |  |  |
| During his pilgrir                                       | mage to Mecca, Mansa Musa gave away so much gold, the value   | 1348   |                          | Black Death arrives in England  |  |  |
| of gold fell   |   | 1381   |                          | Peasants Revolt   |  |  |



| 1. Key words |  |
|--------------|--|
| Trade        | the action of buying and selling goods and services              |
| Merchant     | a person who trades in items produced by other people            |
| Religion     | a system of belief, faith and worship                            |
| Caliphate    | a state under the leadership of an Islamic ruler                 |
| Excavation   | the exposure, processing and recording of archaeological remains |

#### 2. What were the silk roads

The Silk roads were a network of routes that links people, trade, knowledge and religions.

They stretched from Europe in the West to China in the East.

They included some of the most important cities in the world such as Samarkand, Baghdad, Constantinople and Xian.

#### 3. How did they begin?

Persia was situation in the heart of the Silk Roads and first began expanding their network outwards.

Alexander the Great continued expansion further, building roads and sharing ideas as he went!

Zhang Qian, a Chinese diplomat, headed West and began the trade of horses, significant for Silk Road expansion.

#### 4. What religious ideas spread?

Buddhism, Islam, Zoroastrianism, Christianity were all spread along the Silk Roads.

#### 5. What was traded on the silk roads?

Horses, silk, rhubarb, wool, spices, musk, gunpowder, paper, furs linen and silver were all traded on the Silk Roads.

The Sogdians were the greatest merchants of the Silk Roads period, situating themselves along the Silk Roads and acting as translators. Their home was the ancient city of Samarkand.

Items were transported on camels.

#### 6. Baghdad – the jewel of the Silk Roads

Baghdad was the capital city of the Abbasid Muslim Empire. The town was built from scratch in 762AD.

It was built in the shape of a circle with an outer wall and two inner walls and a moat for defence.

It had a population of nearly 1 million.

It was a cosmopolitan city. People from Turkey, Persia, India and north Africa came to trade and live!

#### 7. Misconceptions

Western Europe is the centre of the world.

Rome was the capital of the Roman empire.

Women treated as second class citizens in the Ancient World.

Christianity is European.

Europeans successfully resisted the Mongols.

Europe was superior academically and intellectually to the East.

Islam, Christianity and Judaism have always been rivals.

Globalization is a modern development.



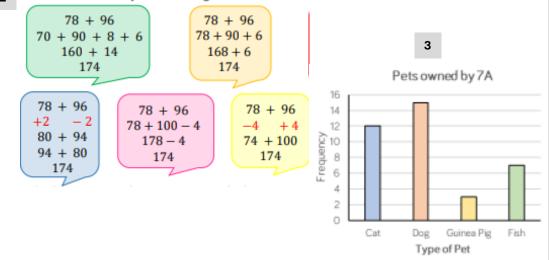
| 1   | Concept               |                            | Descri   | iption        |   |                |   | 2 Component |   |                  | What it does                                       |  |
|---|-----------------------|----------------------------|--|---------------|---|----------------|---|-------------|---|------------------|--|--|
|   | Input                 |                            | A device that takes in user information            |               |   |                | СРИ   |             | 'Brain' of the computer, carries out calculations and processes |                  |  |  |
|   | Process               |                            | A mathematical or logical calculation              |               |   |                | Motherboard   |             | Connects h  | ardware together |  |  |
|   | Output                |                            | A device that displays information provided by the |               |   |                |   | Hard disk   |   | Stores data      | permanently such as files                          |  |
|   |                       |                            | computer   |               |   |                |   |             | Random Access Memory  |                  | Stores temporary information about programs in use |  |
|   | ١                     | Power Supply               |  |               |   | Power Supply   |   | Provides po | ower to device  |                  |  |  |
| 3   | Binar                 | nary to decimal conversion |  |               |   |                |   |             | _   |                  |  |  |
| 1   | 28                    | 64                         |  | 32            | 16  | 8              | 4   | 2           | 1   | 4                | Commor   | n Health & Safety issues                   |
|   | 0                     | 0                          |  | 0             | 1   | 0              | 1   | 1           | 0   |                  |  | Usually due to poor posture or sitting in  |
|   | Draw a number line ab |                            |  | ve the binary | number, wh  | ere there is a | 1 add the nu  | umbers 1    | ogether. E.g.   | Back             | problems   | an awkward position when using a computer. |
| necessary. E.g. 51 = 00110011 caused by repeated movements over |                       |                            |  |               | Usually damage to the fingers and wrists<br>caused by repeated movements over a<br>long period of time. |                |   |             |   |                  |  |  |
| 1   | 28                    | 64                         |  | 32            | 16  | 8              | 4   | 2           | 1   |                  |  |  |
|   | 0                     | 0                          |  | 1             | 1   | 0              | 0   | 1           | 1   |                  |  | Usually caused by staring at a computer    |
| 32 + 16 + 2 + 1 = 51  |                       |                            |  |               | Eye s   | train          | screen for a long time. Particularly in poor light, in glare or with a flickering screen. |             |   |                  |  |  |

#### **Addition and Subtraction**

#### Sparx Codes M928 M347 M635

|               | 1. Key words  |
|---------------|---|
| Key Word      | Definition  |
| Integer       | A whole number  |
| Decimal       | A value that consists of a whole and fractional part              |
| Perimeter     | Total length around the outside of a shape                        |
| Standard Form | Writing very small or very large numbers in terms of powers of 10 |
| Sum / Total   | Amount resulting from adding two or more values                   |
| Difference    | The result of subtracting one value from another                  |
| Credit        | A value going into a bank account                                 |
| Debit         | A value taken out of a bank account                               |
| Frequency     | The amount or number of times something happens<br>(how many)     |

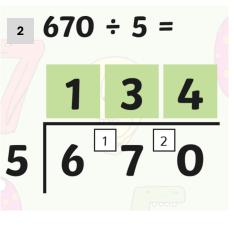
2 Here are some ways of working out 78 + 96

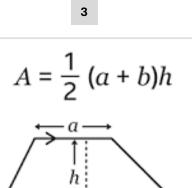


#### Multiplication and Division

#### Sparx Codes M187 M354 M705

|          | 1. Key words  |  |  |  |  |
|----------|---|--|--|--|--|
| Key Word | Definition  |  |  |  |  |
| Product  | The result of multiplying two or more values together                       |  |  |  |  |
| Quotient | The result of dividing one number by another                                |  |  |  |  |
| Multiple | A number in a given times table   |  |  |  |  |
| Factor   | A number that divides into another with no remainder                        |  |  |  |  |
| Mili-    | A metric prefix used to denote one thousandth of a value                    |  |  |  |  |
| Centi-   | A metric prefix used to denote one hundredth of a value                     |  |  |  |  |
| Kilo-    | A metric prefix denoting multiplication by one thousand.                    |  |  |  |  |
| Estimate | Obtaining an approximate answer to a calculation by simplifying or rounding |  |  |  |  |
| Area     | The amount of space taken up by a 2D shape                                  |  |  |  |  |

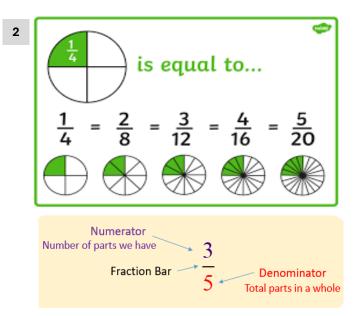






#### Fractions and Percentages of Amounts Sparx Codes M695 M684 M437 M905

|             | 1. Key words  |
|-------------|---|
| Key Word    | Definition  |
| Fraction    | A numerical value that is part of a whole                                     |
| Equivalent  | Fractions that have the same value once simplified                            |
| Numerator   | The top number in a fraction. Indicates how many parts of the whole we have   |
| Denominator | The bottom number in a fraction. Indicates how many equal parts there are     |
| Percent     | Per one hundred. A number or ratio that can be expressed as a fraction of 100 |



3

 $\frac{3}{4}$  of 36

Divide by the denominator then multiply by the numerator

$$36 \div 4 = 9 \times 3 = 27$$

$$\left(\frac{3}{4} \text{ of } 36 = 27\right)$$

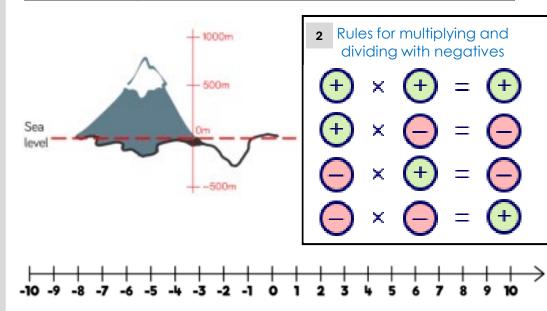
#### <sup>4</sup> 73% of 680 = 73 ÷ 100 × 680

### 73÷100×680=

#### **Directed Numbers**

#### Sparx Codes M527 M106 M288

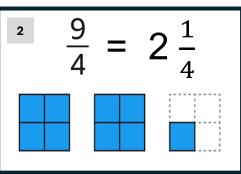
| 1. Key words |  |  |  |  |
|--------------|--|--|--|--|
| Key Word     | Definition   |  |  |  |
| Positive     | Any value greater than zero  |  |  |  |
| Negative     | Any value less than zero   |  |  |  |
| Ascending    | Increasing in value or size  |  |  |  |
| Descending   | Decreasing in value or size  |  |  |  |
| Commutatitve | Numbers can be added or multiplied in any order to get the same sum or product |  |  |  |
| Inverse      | Performing the opposite process or to undo an operation                        |  |  |  |



#### Adding and Subtracting Fractions

#### Sparx Codes M601 M835

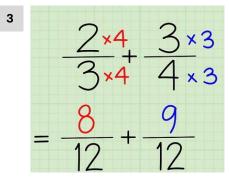
| 1. Key words              |   |  |
|---------------------------|---|--|
| Key Word                  | Definition  |  |
| Mixed Number              | A number consisting of an integer and fraction  |  |
| Improper Fraction         | A fraction where the numerator is greater than the denominator                              |  |
| Lowest Common<br>Multiple | The smallest value that is a multiple of two or more numbers. E.g. 12 is the LCM of 3 and 4 |  |
| Common<br>Denominator     | A common multiple of the denominators of two fractions                                      |  |



mproper fractions

2

Convert to



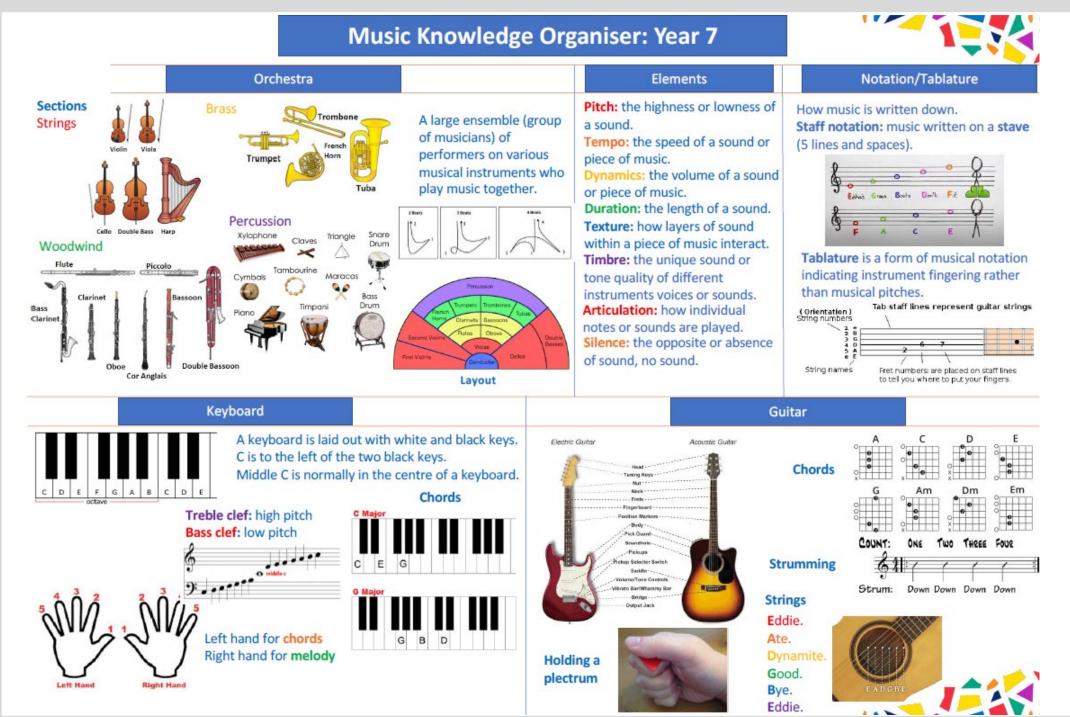
 $3\frac{1}{4} - 1\frac{3}{5} = \frac{13}{4} - \frac{8}{5}$ 

2. Find the LCM and subtract 65 32 33 3. Convert back to a mixed number





#### Music





|           | Injuries in Sport                                       |
|-----------|---|
|           | 1. Types of Injury                                      |
| Injury    | Description   |
| Sprain    | Damage to a ligament that crosses a joint.              |
| Fractures | Broken bones caused by impact, twisting or repetitive s |

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

|  | 2. How to Treat an Injury (RICE method) |   |  |  |  |  |
|--|---|---|--|--|--|--|
| R  | R Rest Immobilise the injured part      |   |  |  |  |  |
| I  | lce                                     | Apply an ice pack or other cold object to the affected area                 |  |  |  |  |
| с  | Compression                             | Ensure the ice pack or compress is firmly pressed against the affected area |  |  |  |  |
| E Elevation Raise the injured limb above the level of the heart  |   |   |  |  |  |  |
| The <b>RICE</b> method helps to reduce swelling and pain! Used most commonly for soft tissue injuries or injuries where swelling is likely to occur. |   |   |  |  |  |  |

| 3. Prevention of Injury   |
|---|
| Follow rules and apply them fairly  |
| Always use protective equipment. Ensure all protective equipment is in good condition |
|   |

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



|                             | Types of Feedback in Sport   | Lifestyle   | e Choices   |
|-----------------------------|--|---|---|
| There are two               | types of feedback  | -   | s you make that can affect your<br>nd fitness.  |
| 1. Intrinsic<br>Feedback    | <ul> <li>This is the physical feel of the movement as it is performed</li> <li>It helps the performer to solve problems themselves</li> </ul>    | 1.Eating a healthy diet:  | 2. Eating an unhealthy diet:  |
|                             | · It helps them to develop skills independently  | Boosts your energy levels, so you are better able to enjoy life.  | Leads to deficiencies in essential nutrients and causes<br>health conditions such as osteoporosis and rickets as<br>well as fatigue and muscle weakness |
| 2. Extrinsic<br>Feedback    | <ul> <li>This is provided by external sources during or after a performance</li> <li>It can come from teachers, coaches or teammates.</li> </ul> | Will supply your body with the central nutrients it<br>needs for a healthy immune system helping you fight<br>off illnesses | Leads to an increase in weight and body fat which puts<br>you at risk of developing health conditions such as   |
|                             |  | Reduces the risk of developing serious health conditions such as heart disease type 2 diabetes high                         | heart disease type 2 diabetes high blood pressure high cholesterol and stroke   |
| Feedback car                | • This is experienced by the performer whilst completing the action  | blood pressure high cholesterol or stroke<br>Communication stress levels and improve your sleep                             | Can affect your concentration levels and make you feel<br>lethargic making it more difficult to find the energy to<br>exercise                          |
| Feedback                    | E.g. A gymnast will experience feelings of being in a balanced position whilst   | patterns<br>Will help you lose weight if you are currently  | Can affect your quality of sleep  |
|                             | they successfully complete a handstand<br>· It is often the case that concurrent feedback is also intrinsic feedback                             | overweight or maintain a healthy weight   | Can cause you to feel guilty and depressed especially if you overheat   |
|                             |  | <u>3. Living an active life:</u>  | <u>4. Living an inactive life:</u>  |
| 4. Terminal                 | · This is experienced by the performer once the movement has been  | Lowers your risk of disease   | Increases your risk of disease  |
| Feedback                    | completed<br>• For example, a cricketer receives terminal feedback about the quality of their  | Lowers your risk of developing mental health<br>conditions such as depression or dementia                                   | Increases your risk of low self esteem anxiety and depression   |
|                             | shot once the ball reaches the boundary  | Please yourself esteem the quality of your sleep and  | Decreases your muscle mass overall strength and   |
|                             | · It is often the case that terminal feedback is also extrinsic feedback   | your energy levels<br>Reduces stress and anxiety  | energy levels making daily tasks such as carrying shopping bags more difficult  |
|                             | 5. Interpretation and Analysis of Feedback Data  | Improve your fitness levels   |   |
|                             |  | 5. A good work/rest/sleep balance:  | 6. A poor work/ rest/ sleep balance can:  |
|                             | nered and shared before, during and after a performance.   | Improve your physical emotional and social health   | Increase your risk of depression  |
| Quantitative dat<br>ootball | a— where you measure amounts. E.g. number of successful passes made in   | Makes you feel more in control of your life helping to reduce stress  | Lead to weight gain   |
| Oualitative data            | -how somebody feels about something. E.g. gathering opinions on their most   | You are better at making good decisions   | Increase your risk of illness and disease   |
| recent performa             |  | The are setter at maxing Bood accisions   | Increase stress and anxiety   |
|                             |  |   | Results in poor quality sleep   |

PE



|   |                | Key Quotes  |   | Key Facts  |
|---|----------------|---|---|--|
| 1 | begotten of th | one Lord, Jesus Christ, the only Son of God, eternally<br>ne Father, God from God, Light from Light, true God<br>I, begotten, not made, of one being with the Father. | 1 | The <b>incarnation</b> means that God became a human being in the form of Jesus to offer humans the chance of salvation.   |
| 2 |                | (Nicene Creed)<br>rom heaven said, "This is my Son, whom I love; with<br>him I am well pleased." (Matthew 3:17)   | 2 | The doctrine of the <b>Trinity</b> teaches that there is one God who is three persons: the Father, the Son (Jesus) and the Holy Spirit. The Trinity is reflected in prayer – for example, the Sign of the Cross.                                   |
|   |                | Key Words   | 3 | The Nicene Creed is a statement of faith about the core beliefs held by Catholics, such as belief in the <b>incarnation</b> . It is said in Mass during the Liturgy of the Word and is structured around the three persons of the <b>Trinity</b> . |
| 1 | Incarnation    | Christians believe that God became man in the person of Jesus, truly human and truly divine.  |   | There are prophecies in the Old Testament which say that the Messiah will be God's Son and in the New Testament God the Father calls Jesus his 'beloved Son' during the baptism of Jesus. It   |
| 2 | Trinity        | God as three in one – Father, Son and Holy Spirit.  |   | shows that Jesus is truly God.   |
| 3 | Son of Man     | A title for Jesus which suggests that he is both<br>divine and human; it connects to the idea of him<br>as a Messiah.   | 5 | Jesus has the title of <b>Son of Man</b> to show that he is a human being who wants to serve others.<br>The title is also used to show Jesus' divine power and authority.  |
| 4 | Son of God     | A title of Jesus as the second person of the Trinity, reflecting his equal status to God the Father.  | 6 | Jesus also has the titles of ' <b>Christ</b> ', 'son of David' and ' <b>Lord</b> '. There are prophecies in the Old Testament about the Messiah including that the Messiah will be a descendent of King David.                                     |
| 5 | Christ         | A title for Jesus, which means he was chosen by God.  |   | Christians believe that Jesus showed agape (a selfless love) when he sacrificed himself on the   |
| 6 | Lord           | A person who has power and authority; a title for<br>God in the Old Testament, also used for Jesus in<br>the New Testament.   |   | cross. Catholic Social Teaching encourages Catholics to follow Jesus' example.   |
| 7 | Heresy         | An opinion or belief that goes against Church teaching, or the denial of a revealed truth.  |   | Holy Holy (1 Believe   |
| 8 | Arianism       | The belief that was put forward by Arius in the 4 <sup>th</sup> century that Jesus was not divine.  |   | Father Almighty)   |
| 9 | Service        | Supporting the needs of others and putting them before our own; this might include physical and spiritual needs for example.  |   | I GREED J  |



|   |                        | Key Quotes  |   | Key Facts   |
|---|------------------------|---|---|---|
| 1 | The Euch               | narist is the 'source and summit of Christian life.'<br>(CCC 1324)  | 1 | <b>Sacraments</b> are visible signs of God's grace. Catholics must receive the three sacraments of Initiation to become a full member of the Catholic Church: Baptism, Confirmation & Eucharist.  |
| 2 |                        | ere eating, Jesus took bread, gave thanks and broke it,<br>o his disciples, saying, "Take and eat; this is my body."<br>(Luke 22:26)                        | 2 | There are two other types of sacrament. <b>Sacraments</b> of Healing include the Anointing of the Sick & Reconciliation. <b>Sacraments</b> of Service are Holy Orders & Matrimony.  |
| 3 | A sacrament            | is an 'outward and visible sign of an inward, invisible grace.' (St Augustine)  | 3 | The <b>Sacrament</b> of the <b>Eucharist</b> is the most important sacrament. It is where the bread and wine becomes the body and blood of Jesus.   |
|   |                        | Key Words   | 4 | The <b>Eucharist</b> is important as it can bring a person closer to God, strengthen faith and provide forgiveness and protection from sin.   |
| 1 | Paschal<br>Mystery     | The belief that Jesus' death and resurrection bring salvation to every human being.   |   | The <b>Eucharist</b> is the ' <b>source and the summit</b> ' that unites us with Christ, physically and   |
| 2 | Sacrament              | Visible signs of God's grace that makes real what<br>they symbolise; also the name given to the<br>ceremonies that contain these signs.                     | 5 | spiritually through <b>transubstantiation</b> . We become the spiritual bread for others through our words and actions.   |
| 3 | Passover               | A Jewish festival that celebrates God saving the Jewish people from slavery in Egypt.   | 6 | The Last Supper was a meal that Jesus shared with his disciples to celebrate Jewish <b>Passover</b> .<br>During this meal, Jesus instituted the Sacrament of the Eucharist.   |
| 4 | Eucharist              | The sacrament in which Catholics receive the body<br>and blood of Christ; also called Holy Communion,<br>the Lord's Supper, the Breaking of Bread and Mass. | 7 | Most Christians around the world agree that Jesus is present in the Eucharist but they have different views on how this happens. For example Catholics believe that Jesus is physically present in the Eucharist whereas Anglicans believe that Jesus is spiritually present. |
| 5 | Sacrifice of the Mass  | The belief that Jesus' sacrifice is really made present to Catholics during the Eucharist.  | 8 | Jesus is present in the Mass in four ways: in the assembly of the faithful, in the reading of scripture, in the person of the priest and in the <b>Blessed Sacrament</b> .  |
| 6 | Transubstan<br>tiation | The process by which the bread and wine actually become the body and blood of Jesus at the moment of consecration.  |   |   |
| 7 | Holy<br>Communion      | Another name for the Sacrament of the Eucharist.  |   |   |
| 8 | Lord's<br>Supper       | Another name for the Sacrament of the Eucharist.  |   |   |
| 9 | Blessed<br>Sacrament   | A term which refers to the body and blood of Jesus in the Eucharist.  |   |   |



#### **Science - Ecosystems**

| Keyword         | Definition  |
|-----------------|---|
| Anther          | The part of a plant that produces pollen          |
| Bioaccumulation | The process by which chemicals build up in a      |
|                 | food chain  |
| Carpel          | The female reproductive parts of a plant          |
| Community       | All the areas of an ecosystem                     |
| Competition     | Where resources are limited, and one species      |
|                 | has more of that resource than another            |
| Ecosystem       | All the organisms which are found in a location   |
|                 | and the area in which they live                   |
| Fertilisation   | When a female sex cell joins with a male sex cell |
| Food chain      | The direction in which energy flows as one        |
|                 | organism eats another                             |
| Food web        | A diagram showing how different food chains       |
|                 | are connected                                     |
| Germination     | The process in which the seed begins to grow      |
| Interdependence | The way living organisms rely on each other to    |
|                 | survive   |
| Niche           | The specific role an organism has in an           |
|                 | ecosystem   |
| Ovary           | Contains the ovule                                |
| Ovule           | The part of plant containing the ovum or egg      |
|                 | cells   |
| Petal           | The brightly coloured part of a flower            |
| Predator        | An animal that eats another animal                |
| Prey            | The animal eaten by the predator                  |
| Producer        | Organisms at the start of a food chain, they      |
|                 | convert energy from the Sun                       |
| Pollen          | The male sex cell of a plant                      |
| Pollination     | The fertilisation of the ovule                    |
| Population      | All the organisms that live in one area           |
| Seed            | An embryonic plant in a protective outer          |
|                 | covering  |
| Sepal           | The outer casing of a flower                      |
| Stamen          | The male reproductive part of a plant             |
| Stigma          | The part of a plant that catches the pollen       |
| Style           | The part of the plant that holds up the stigma    |

#### 1. 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 erbivore – type of consume apex predator – last that eats the producer link in a food chain cactus producer – green carnivore - type o plant/algae that consumer that eats akes its own food 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

#### 3. 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 organisms live in is known as the habitat

• A niche is the specific role in which 99% bamboo

Male part of the flower

• The anther produces

Stamen

pollen

the anther

- an ecosystem, the area in which the
- an organism has within an ecosystem, for example a panda's diet consists of

#### process by which chemicals such as pesticides and insecticides build up along a food chain

#### 4. 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 prev will increase as less are being eaten
- The relationship between the predator and the prey is known as a predatorprey relationship

#### 140000 Key 120000 snowshoe hare - Canadian lynx 100000 80000 60000 40000 20000

2.Disruption to food

chains

· Interdependence is the way in which living organisms rely on each

· A food chain will be disrupted if

one of the organisms die out

the food chain will also die out unless they have a different food

If the consumer population die out the number of organisms

they are eaten by another

**Bioaccumulation** is the

which they eat will increase unless

If the producer dies out the rest of

other to survive

source

organism

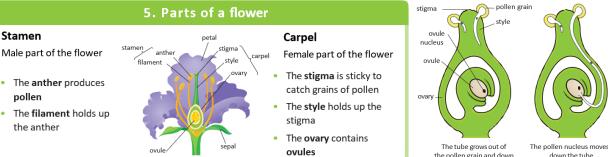
#### 6. Pollination and fertilisation

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

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

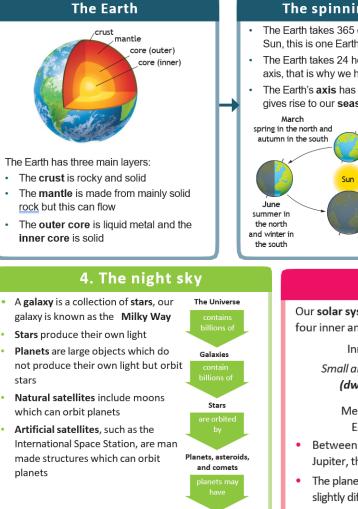
- Water to allow the seed to swell and grow and for the embryo tostart growing
- Oxygen for that the cell can start respiring to release energy forgermination
- Warmth to allow the chemical reactions to start to occur within the seed



down the tube through the style.

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

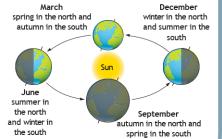
| Key word             | Definition   |
|----------------------|--|
| Asteroid<br>belt     | A region of space between the orbits of<br>Mars and Jupiter where most of the<br>asteroids in our Solar System are found |
| Artificial satellite | orbiting the Sun<br>Man-made structures which can orbit planets  |
| Axis                 | A tilt of the Earth of 23.4° which gives rise to our seasons   |
| Crust                | The rocky solid outer layer of the Earth   |
| Durable              | Able to withstand wear, pressure, or damage;<br>hard-wearing   |
| Dwarf<br>planet      | A small rocky planet which orbits the Sun  |
| Galaxy               | A collection of stars  |
| Gas giants           | A large planet consisting of mainly hydrogen and helium  |
| Inner core           | The innermost centre of the Earth  |
| Magma                | Hot fluid within the Earth's crust which lava and other igneous rock is formed when cooled                               |
| Mantle               | The second layer of the Earth beneath the<br>Earth's crust   |
| Milky way            | The name of our galaxy   |
| Natural<br>satellite | Natural objects which orbit a planet e.g. moons  |
| Outer core           | A fluid layer of the Earth composed of mostly iron and nickel  |
| Orbit                | The curved path of an object around the Sun  |
| Planet               | A celestial body moving in an orbit around a star  |
| Solar<br>system      | Our star, the Sun, and everything bound to it by gravity   |
| Star                 | A luminous ball of gas, mostly hydrogen and helium, held together by its own gravity.                                    |
| Sun                  | The Earths star  |
| Universe             | All of space and time and their contents, including planets, stars, galaxies,  |
| Year                 | The orbital period of a planetary body   |



Moons

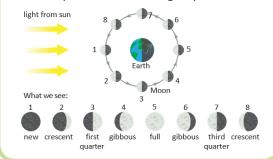
#### The spinning Earth

- 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



#### 3. 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



#### 5. The Solar system

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

| Inner planets                              | Outer planets          |
|--|------------------------|
| Small and rocky planets                    | Gas giants             |
| (dwarf planets)                            |                        |
| Mercury, Venus,                            | Jupiter, Saturn,       |
| Earth, Mars                                | Uranus, Neptune        |
| Between the inner and outer plan           | nets, between Mars and |
| Jupiter, there is the <b>asteroid belt</b> |                        |
|  |                        |

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



A downward force caused

by gravity

Weight

| Key word                       | Definition  |   |   |  |
|--------------------------------|---|---|---|--|
| Accelerati<br>on               | Speeding up   |   |   |  |
| Air<br>resistance              | A non-contact force exerted by air particles on an object |   |   |  |
| Balanced                       | Forces acting on an object are the same                   | <ul> <li>1. What is a force?</li> <li>A force can be a push or a pull</li> </ul>  | 2. Types of forces  | 3. Gravity   |
| Contact<br>Force<br>Decelerati | When 2 objects are<br>physically touching                 | <ul> <li>A force can be a pain of a pain</li> <li>A force is measured in Newtons (N)</li> <li>We measure forces with a newton meter</li> </ul>      | Contact forces act when two objects<br>are physically touching  | <ul> <li>Gravity is a non-contact force that acts between two of</li> <li>Gravitational force pulls you back to Earth when you ju</li> <li>The size of the gravitational force depends on the mass of</li> </ul> |
| on                             | Slowing down  | Forces explain why objects will move, change direction and  | Air resistance and friction are examples     of contact forces  | objects and how far apart they are   |
| Distance –<br>time graph       | A graph that shows the story of a journey                 | <ul> <li>Forces always act in pairs, we call these interaction pairs</li> </ul>   | <ul> <li>Non-contact forces act when<br/>two objects are physically</li> </ul>  | <ul> <li>Weight is the downward force caused by gravity acting<br/>mass of an object, it is measured in Newtons (N)</li> </ul>   |
| ield                           | The region where an object experiences a force            | e.g. the tennis ball exerts a downward force of <b>weight</b> onto the table, the table exerts an equal and opposite reaction force onto the        | <ul> <li>separated (not touching)</li> <li>Examples of non-contact forces include</li> </ul>  | • Mass is the amount of matter within an object, whereas the downward force of the object, we measure mass in  |
| Force                          | A push or a pull  | ball force exerted  | gravitational force and magnetic forces   | We calculate weight with the equation:     gravitational   |
| Motion                         | Movement  | by the table<br>on the ball   | • We call the region where an object  | weight (N) = mass (kg) $\times \begin{array}{c} \text{gravitational} \\ \text{field strength} \end{array}$   |
| Gravity                        | A non-contact force that acts between 2 objects           | force exerted by<br>the Earth on the  | experiences a non-contact force a <b>field</b> , examples of these include  | <ul> <li>The value of the gravitational field strength can vary, so a<br/>person's mass would be the same on different planets, t</li> </ul>   |
| Gravitatio<br>nal force        | The force that brings you down to Earth when you          | ball (due to gravity)   | gravitational fields and magnetic fields  | weight would not be  |
| Interactio                     | jump<br>Equal forces acting in                            | 4. Palanced and unbalanced ferrors  | The second  | 6. Distance-time graph   |
| n pair                         | opposite directions                                       | 4. Balanced and unbalanced forces   | 5. Speed  | Distance-time graphs tell the story of a journey, they sl  |
| Cilograms                      | The unit of measurement for mass                          | <ul> <li>When forces acting on an object are the same size, but acting in<br/>different directions, we say that they are <b>balanced</b></li> </ul> | • <b>Speed</b> is a measure of how quickly or slowly that something is moving   | much distance has been covered in a certain <u>period of t</u>   |
| Mass                           | The matter which makes up<br>an object                    | <ul> <li>When forces are balanced, the object is either not<br/>moving (stationary) or moving at a constant speed</li> </ul>                        | • We measure speed in meters per second   | slowing /fast, /getting  |
| lewton                         | The unit of measurement for force                         | <ul> <li>When the two forces acting on an object are not the same size, we</li> </ul>   | (m/s), this means that distance must be in meters and time must be in seconds   | speed / faster   |
| Non-<br>contact                | When 2 objects are not touching                           | say that the forces are <b>unbalanced</b>   | <ul> <li>We calculate speed with the following<br/>formula:</li> </ul>  | steady stationary speed  |
| Pull                           | A force   | <ul> <li>When forces are unbalanced, the object will either be in<br/>acceleration or deceleration</li> </ul>                                       | speed (m/s) = $\frac{\text{distance travelled (m)}}{\text{distance travelled (m)}}$   | returning<br>"zero poir  |
| Push                           | A force   | <ul> <li>The resultant force is the difference between the two unbalanced forces</li> </ul>   | time taken (s)  |  |
| Relative<br>notion             | How quickly an object is<br>moving compared to<br>another |   | Relative motion compares how     quickly one object is moving   | 0 Time<br>• To find the average speed, the total distance must be di   |
| Resultant<br>force             | The difference between 2<br>unbalanced forces             | resultant = zero resultant = 2N<br>stationary or accelerating   | compared to another   | the total time   |
| Speed                          | A measure of how quickly or slowly something is moving    | constant velocity to the right  | <ul> <li>If both objects are moving at the same<br/>speed, they are not changing position in<br/>comparison to one another, meaning that</li> </ul> |  |
| Unbalance                      | When forces acting on an object are different             |   | their relative speed is zero  |  |



#### **Science - Reactions**

| Keyword             | Definition   | 1. Chemical reactions   | 2. Acids and alkalis  |
|---------------------|--|---|---|
| Acid                | A solution with a pH value less than 7   |   |   |
| Acidic              | A solution with a pH between pH1 and pH6   | <ul> <li>A chemical reaction is a change in which atoms are<br/>rearranged to make new substances</li> </ul>    | Acids and alkalis are the chemical opposites of one another   |
| Alkali              | A soluble base   | • A reversible reaction is one where the products can rea   | <ul> <li>Both acids and alkalis can be corrosive and irritants</li> <li>To see whether a substance is an acid or an alkali, we can use an indicator. Indicators show how acidic</li> </ul>  |
| Alkaline            | A solution with a pH between pH8 and pH14  | to get back the substances which you started with, mos<br>chemical reactions are not reversible                 | or how alkaline a solution is by showing its position on the <b>pH scale</b> , one example of this is <b>universal</b><br>indicator   |
| Base                | Any substance which neutralises an acid  | • You can look for signs that a chemical reaction has taken   | <ul> <li>If the solution has a pH value of 1–6 it is acidic</li> </ul>  |
| Chemical            | A substance obtained by a chemical process   | place such as flames, smells, heat change, a loud bang o gentle fizz  | <ul> <li>If the solution has a pH value of 8–14 it is <b>alkaline</b></li> </ul>  |
| Chemical reaction   | A change in which atoms are rearranged to create<br>new substances                           |   | If the solution has a pH value of 7 it is known as <b>neutral</b>   |
| Concentration       | The amount of substance dissolved in 1 litre of water  | 3. Acid strength • The strength of an acid depends on how much of the   | 4. Neutralisation<br>eutralisation reactions are any reaction<br>which acids react with a base to cancel  |
| Concentrated        | A solution with many solute particles per litre  | acid has broken apart when it has dissolved in water<br>• Hydrogen chloride dissolves in water to form          | It the effect of the acid   |
| Corrosive           | A substance that can burn  | in a second s | nese reactions form a neutral solution it is a provide the second s  |
| Displacement        | When a more reactive metal reacts with a<br>compound containing a less reactive metal        | A weak acid will have particles that do not all split up  | base is any substance which eutralises an acid     0     1     2     3     4     5     6     7     8     8     10     10     12     14  |
| Hydroxide           | An ion containing hydrogen and oxygen  |   | n alkali is a base which has been Acidic Neutral Alkaline   |
| Indicator           | A chemical used to identify substances as either acid or alkaline                            |   | Alkalis Bases 5. Metal reactions  |
| Irritant            | A chemical that makes the skin or eyes itch  | strong acid     weak acid     The concentration of the acid is the amount of acid                               | sodium<br>hydroxide         copper<br>oxide         When a metal reacts with an acid it will produce a salt and hydrogen gas, the fizzing<br>that you see is the hydrogen gas being given off   |
| Neutral             | A solution of pH 7   | which has dissolved in 1 litre of water   | calcium<br>xide magnosium + hydrochlaric acid → salt + hydrogen   |
| Neutralisation      | Reactions in which an acid reacts with a base to reach pH 7                                  | The more concentrated the acid, the lower the pH  | magnesium + hydrocinone actu - + magnesium enione + hydrogen  |
| Oxide               | A substance which contains oxygen  | 6. The reactivity se  | ries When a metal reacts with oxygen a metal oxide is formed, this process is known as oxidation  |
| Oxidation           | A chemical reaction in which a substance<br>combines with oxygen                             | <ul> <li>The reactivity series describes how reactive different<br/>another</li> </ul>                          |   |
| pH scale            | A measurement of a substance being acid, alkaline or neutral                                 | The higher the metal is in  | least reactive  |
| Reversible          | A change in which it is possible to get back to the original substances                      | the reactivity series the more reactive it will be this means that it will                                      | 0       0 |
| Reactivity          | The likelihood of a substance undergoing a<br>chemical reaction                              | this means that it will 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이   | be E metal + water → metal hydroxide + hydrogen<br>sodium + water → sodium hydroxide + hydrogen   |
| Reactivity series   | A list of metals showing how different metals are compared to one another                    | vigorously  | When a more reactive metal reacts with a compound containing a less reactive metal, it can take its place, this is known as a <b>displacement</b> reaction  |
| Salt                | A salt is a compound in which the hydrogen atoms of an acid are replaced by atoms of a metal | 7. Salts  | copper + silver nitrate → silver + copper nitrate   |
| Strong acid         | An acid in which all the acid particles split up when it dissolves in water                  | when an acid reacts with a metal or metal chlor   |   |
| Universal indicator | A chemical which reacts with acids and alkalis to give a colour change                       | Different acids form different types of salts   | uric acids form sulphates<br>acids form nitrates  |
| Weak acid           | An acid in which only some of the acid particles split up when it dissolves in water         |   |   |

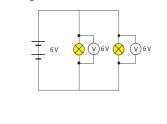


#### **Science - Electricity**

| Key word                | Definition   |   |   |  |
|-------------------------|--|---|---|--|
| Ammeter                 | A device to measure current  | 1. Curr   | ent   | 3. Series circuits   |
| Atom                    | The particles all objects are made from  | <ul> <li>Current is the amount of charge flowing per</li> <li>The charges that flow in a circuit are electron</li> </ul>  |   | Series circuits only have one loop   |
| Attract                 | Opposite charges moving towards each other                                     | <ul> <li>charged</li> <li>Electrons leave the negative end of the cell ar<br/>around the circuit to the positive end of the c</li> </ul>  | nd travel   | <ul> <li>If one component breaks, the whole<br/>circuit stops working</li> <li>Current is the same everywhere in a seri</li> </ul>   |
| Battery                 | A device that stores chemical energy and converts it to electrical energy      | Current has the unit of Amps (A) and is measu     ammeter (which is placed in series or in the results)   | ired with an $\left[\begin{array}{c} & & \\ & $ | circuit The total potential difference from the battery is shared between the componential difference from the componential differen |
| Cell                    | A single electrical energy source  | 2. Potential  | difference  | in a series circuit <ul> <li>Adding more bulbs decreases the bright</li> </ul>   |
| Conductors              | A material with a low electrical resistance                                    | <ul> <li>Potential difference is the amount of<br/>energy transferred by the cell or battery<br/>to the charges</li> <li>The value of potential difference tells us<br/>about the force applied to each charge</li> </ul> |   | of the bulbsA  |
| Current                 | The amount of electric charge flowing through the circuit per second           | about the force applied to each charge<br>and then the energy transferred by each<br>charge to the component which it   | $\gamma$ $\gamma$ $\gamma$ $\gamma$   |  |
| Electrons               | Negatively charged particles   | <ul> <li>passes through</li> <li>Potential difference has the unit of volts</li> </ul>  |   | ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  |
| Electric charge         | The force experienced when an object is placed in an electromagnetic field     | (V) and is measured with a <b>voltmeter</b><br>(which is placed in parallel to the circuit)   |   |  |
| Insulator               | A material with a high electrical resistance                                   | 6. The atom   |   | electricity  |
| Neutral                 | No charge  | <ul> <li>The atom consists of a central<br/>nucleus with electrons orbiting<br/>around the outside in shells</li> </ul>   | <ul> <li>Static electricity is the caused by of two insulators</li> <li>This causes electrons to be transf</li> </ul>   |  |
| Neutrons                | Particles with no charge   | <ul> <li>Electrons have a negative<br/>charged</li> </ul>   | a positive charge, and one object   | t with a negative charge   |
| Parallel                | Electric circuits with more than loop  | Protons are inside the nucleus and<br>have a positive charge  |   |  |
| Potential<br>difference | The amount of energy transferred by cell / battery to the charges              | Neutrons are inside the nucleus     and have a neutral charge   |   |  |
| Protons                 | Positively charged particles   | proton<br>electron  | Like charges will <b>repel</b> , opposite   | charges will <b>attract</b>  |
| Repel                   | Similar charges moving away from each other                                    | neutron   | $\begin{array}{c} \bullet \bullet$  |  |
| Resistance              | A measure of how easy or difficult it is for charges to pass through a circuit |   |   |  |
| Series                  | Electric circuits with only one loop   |   |   | L L  |
| Voltmeter               | A device to measure potential difference                                       |   |   |  |

#### 4. Parallel circuits

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



#### 5. Resistance

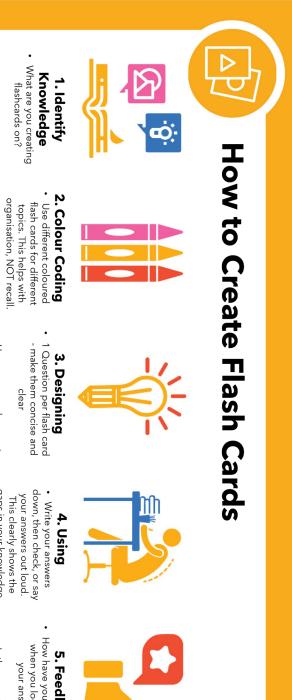
- Resistance is a measure of how easy or how hard it is for charges to pass through a component in a circuit
- Resistance has the unit of ohms (Ω)
- Resistance is calculate by measuring potential difference and current and using the following equation:

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

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



# THE CORE FOUR



- knowledge organiser? Do you have your
- ٠ Use your book to look at previous misconceptions from whole class feedback.
- Use a one-word prompt, so that you can recall as

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- No extended answer much as you can
- Number your cards for self-quizzing. questions
- down, then check, or say your answers out loud. This clearly shows the gaps in your knowledge.
- Do not just copy and re-read.

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Shuffle the cards each time you use them.

Use the Leitner system to

use flash cards every day.

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## 5. Feedback

How have you performed when you look back at your answers?

- Is there anything you need to revisit in more detail?
- Is your knowledge secure? If so, move on to applying knowledge in that area in specific extended exam questions.

# THE CORE FOUR REVISION TECHNIQUES



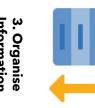


### write down everything you can remember about that topic (with no 2. Write it Down Take a blank piece of paper/white board and

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cover.

Give yourself a timed limit (e.g 10 minutes) prompts)



- Once complete and you cannot remember any more, use different colours to highlight / Information underline words in groups.
- This categorises / links information

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#### Understanding dump to your 4. Check

- Knowledge Organiser or book and check your Compare your brain understanding.
- Add any key information you have missed (key words) in a different

colour.

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#### ы Compare Store and

- Keep your brain dump safe and revisit it.
- Next time you attempt
- the same topic, try and complete the same amount of information in a shorter period of time or add more information.



# THE CORE FOUR



#### Knowledge 1. Identify

notes, knowledge organiser or revision books ready. Select a topic you wish to revise. Have your class



#### You can make your Ņ Designing . own

revision clock by drawing a clock in the centre of a page and dividing it into 12 chunks. You can also use an existing template from your teacher, or one you can find online.



### 3. Manageable Chunks

Organise your revision notes into 12 sub-topics and make brief notes for each sub-topic into one of creating manageable chunks of information. Combine text with images to help retain the the segments on the page, information.



## 4. Using Revision

Revise each segment for 5 minutes. Turn the clock over and recite the sections out loud or ask someone to quiz you. n locks

headings, recall as much information as you can in the segments. Alternatively, you can revise minutes and use a blank revision clock with certain sections for 5



### Understanding 5. Check

written? Is your knowledge How have you performed when you compare you answers to what you have secure?

Remember to repeat the process regularly, using different techniques to answer the questions.

Put it somewhere visible for you to use again.

# THE CORE FOUR REVISION TECHNIQUES





### Knowledge Identify knowledge / content you wish to 1. Identify



## cover

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#### organisers / class notes / Spend around 5 - 10 minutes reviewing content (knowledge textbook.)

 Create 10 questions on the content (if your teacher has not provided you with questions already)



#### Cover up your knowledge and answer the questions from ω **Cover and** Answer memory.

- Take your time and where possible answer in full sentences.
- ٠ Go back to the content and self-mark your answers in green pen. Reflect











Revisit the areas where 5. Next Time

there were gaps in knowledge and include these same questions next time.

THE CORE FOUR REVISION TECHNIQUES

| NOTES | NO       |
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