



Knowledge Organisers

Year 7

Spring Half Term 1

'Practice of what is taught'

Name:

Tutor:

House:

Computing Knowledge Organiser



The Castle School
ACHIEVE | BELONG | PARTICIPATE

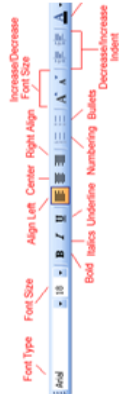
Topic: Using Media



Rationale: Understanding of information technology and digital literacy by using skills to create a blog post about a real-world cause

Word Processing

Formatting Tools



Copyright

Copyright law gives rights to authors of creative works such as books, plays, artwork, and music so that they can decide how they would like their work to be used.



By default, copyright law protects work from being used without permission

Credibility

Check the **author** and the **source**

Why do you think the article was written?

Check **when** the article was written

Check the **facts**

Blog

A regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.



Creating

Reference your sources appropriately

Credit the authors of the images

Use the formatting tools to make your blog suitable for your audience

Use your success criteria and assessment criteria to make sure that you are including everything that you need

Sway

Create Blogs

Create and name Sway

Add a title and additional content

Insert images

Use formatting techniques

Select Design and Style to preview the Sway and change colour schemes and layout



Key Words

| | |
|-----------------------|---|
| Software | Programs on the computer such as Word and Sway |
| Word Processor | A program which allows the input, editing and output of text. |
| Formatting | The way in which text and images are displayed. Bold, Underline, Numbering |
| Icons | A graphic symbol (usually a simple picture) that denotes a program or a command |
| Audience | The group of people encountering the work. |

DT

What is an Insect?



Insects have segmented bodies, jointed legs, and external skeletons (exoskeletons).

Insects are distinguished from other arthropods by their body, which is divided into three major regions:

- The head, which bears the mouthparts, eyes, and a pair of antennae
- The three-segmented thorax, which usually has three pairs of legs (which is where the term Hexapoda comes from)
- The many-segmented abdomen, which contains the digestive, excretory, and reproductive organs



Every insect plays a role in the ecosystem in which it is found. The act of pollination is mostly carried out by bees and butterflies; however, some ants, flies, beetles and even wasps contribute.

When an insect lands on a flower, some pollen is transferred onto its body from the stamen (the male part of the flower). This pollen is rubbed off onto a different flower of the same species, where it can fertilise the stigma (the female part) to produce seeds. Some plants are capable of self-pollinating or being pollinated by seeds in the wind, however, a majority cross-pollinate as described.

The continuation of most plant species is dependent on insects. Not only is this important for wildlife habitats, but also for humans, who rely on effective pollination for food.

It is therefore important for humans to aim to reduce the damage - one way of doing this is by providing areas where they can lay their eggs.

Key Words

Ecosystem -Where plants, animals, and other organisms, as well as weather and landscape, work together to form a bubble of life.

Habitat-the natural home or environment of an animal, plant, or other organism.

Pollination -the process in which pollen is taken from one plant or part of a plant to another so that new plant seeds can be produced

Species - a group of living organisms

Arthropods - having a segmented body, jointed limbs, and a mineralized shell covering

What is a Hexapoda?

A class of six-legged arthropods. The name is used as another term for Insects.



English – Sparx Reader

On a Tuesday and Friday, you should log on to Sparx reader and spend 30 minutes reading.

Reading Articles

You will have a reading article each week linking to the whole school theme for that week:

Week 1: Values

Week 2: Goals

Week 3: Holocaust Memorial Day

Week 4: Equality and Diversity

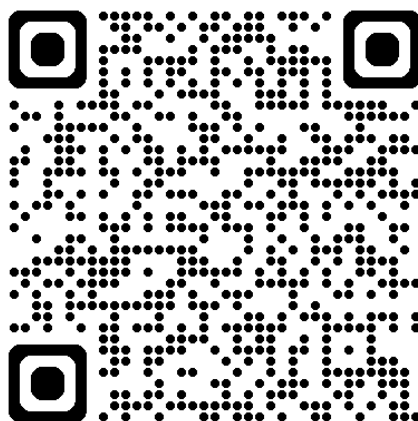
Week 5: Online Safety

Week 6: Mental Health and Wellbeing

Read the article and highlight three words of which you were not sure. Then write the definition and draw an image which will help you remember.

As you read the articles, you will identify that the articles are not in UK English. However, the articles offer some great messages.

Use this QR code to access the reading articles read by a teacher:



Food



History of Bread

The Egyptians first made bread more than 10,000 years ago.

The first bread was unleavened, which means it was flat, similar to a Mexican tortilla. Around 5,000 years ago the Egyptians started producing fermented bread which made the dough spongy and the bread had more volume. Bread consumed in the UK is made from fermented dough. Until the mid-18th century white bread was only consumed by the wealthiest people, as it was more expensive. Today, white bread and wholemeal bread are equally affordable, and both are a popular staple of the UK diet.

Ingredients Used To Make Bread

Wheat - Wheat is the most commonly used grain for bread making in the UK. Flour made from wheat that is high in protein/gluten is called 'strong' flour.



Yeast - Yeast is a living microscopic organism that converts sugar or starch into alcohol and carbon dioxide; It needs moisture, warmth, food and time to multiple. It is needed for the dough to rise through fermentation; High temperatures during the baking process kill any live yeast cells.

Salt - Although it is usually used in small amounts, salt is an essential ingredient in bread.

It helps to strengthen the gluten and helps the yeast during fermentation and is therefore important for good volume and texture. **Water** - Water is needed to form the dough.



All bread making processes rely on **four key steps**. These have been used for hundreds of years.

1. **Mixing/kneading** - The ingredients are mixed together and kneaded. Kneading is required for the development of the gluten and to incorporate air bubbles. The gluten structure is also required to catch the gas produced during fermentation.
2. **Proving** - This process leads to the production of carbon dioxide which causes the gluten network to expand and therefore makes the dough rise; the produced gas is trapped in pockets. The quality of gluten is important – if it is too weak bubbles can burst causing a lack of volume, if it is too strong the dough won't stretch enough.
3. The dough is **knocked back** to remove the large gas bubbles produced by the yeast. This ensures a more even texture and a better rise. Large bubbles of gas would make large holes in the finished bread.
4. **Baking** - This step is required to produce a solid structure and deactivate the yeast. Bread is cooked at a very high temperature. Holes created by gas bubbles.



Breads around the World



Bread is one of the most popular foods and is eaten frequently in almost all countries throughout the world. Different countries have different types of bread. This makes bread one of the most varied types of food.

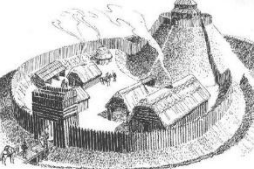


Geography - 'What challenges and opportunities does Africa face?'

| Week 2 - To know what biomes exist in Africa | Week 4 - To know how colonisation has affected Africa |
|--|---|
| <p>A biome is a large region on Earth that has its own special climate, plants, and animals. In Africa, there are four main biomes. Hot deserts are found about 30 degrees north and south of the equator and get very little rain. They can be extremely hot during the day, reaching up to 50°C, but very cold at night. Tropical rainforests are located around the equator, between the Tropic of Cancer and the Tropic of Capricorn, and are hot and wet all year round. Savannas are found between 15 and 30 degrees north and south of the equator and have distinct wet and dry seasons, though they don't get a lot of rain overall. Semi-deserts lie between the deserts and the savannas, where it is always hot but not as hot as the deserts, and they receive some rain for a few months each year.</p> | <p>Colonialism is when a foreign power rules over a geographic area. A colony is a country or area that is under the control of another country. The Portuguese were the first to explore the west coast of Africa in 1420, which encouraged other European countries to do the same. European nations like Britain, France, Germany, and Italy took natural resources such as gold, timber, and rubber from Africa. In 1884, the Berlin Conference led to Africa being divided among European nations to avoid conflicts over these resources. Over time, the colonies rebelled and fought for their independence, with Libya being the first to gain independence from Italy in 1951.</p> |
| Week 6 - To understand the benefits and problems of population change | Week 8 - To understand how developed African countries are |
| <p>Population distribution refers to how people are spread out over a certain area, while population density is the average number of people living in a place per square kilometre. Africa has a total population of about 1.3 billion people, and this number is expected to double to around 2.4 billion by 2050. There are 200 million young Africans aged between 15 and 24 years old, which means Africa has a youthful population that can provide a young and relatively cheap workforce.</p> | <p>Development is the progress a country makes in terms of economic growth, technology use, and the well-being of its people. We can measure development using various indicators, such as life expectancy, literacy rate, Gross National Income (GNI) per capita, death rate, and the number of people per doctor. The literacy rate is the percentage of adults who can read and write. Life expectancy is the average age a person can expect to live. GNI per capita is the value of a country's income divided by its population. The Human Development Index (HDI) is a measure of economic development that combines GNI per capita, life expectancy, and literacy rates to give an average score. For example, Norway has the highest HDI score of 0.957 out of 1.0.</p> |

History - what did the English think when William took control?

| Component | Granular substantive knowledge | Disciplinary literacy (Key words) |
|--|--|---|
| <p>Week 1: Gaining control: Why did William win the Battle of Hastings?</p>  <p>What problems did William face and what impact would this have on the English?</p> | <p>The Romans left England around 400AD/CE. Between 400 AD/CE and 1066, England was ruled by the Saxons. The Vikings also conquered parts of England from 800 AD/CE. <u>This time is known as the Dark Ages.</u></p> <p>In 1066 Saxon King, Edward the Confessor died with no heir. Three key contenders wanted the throne: Harold Godwinson (An English/Saxon Earl), Harald Hardrada (A Norwegian/Viking King) and Duke William of Normandy (A Norman)</p> <p>On the 14th of October 1066, Duke William of Normandy defeated King Harold at the Battle of Hastings. Some argue that William was a better leader. However, many factors contributed to William’s victory: William was better prepared. The English army was severely weakened before Hastings. Harold had just had to fight off an invasion in the North of England by Harald Hardrada and the Vikings (This was the Battle of Stamford Bridge just outside York, 300 miles from Hastings). Harold lost many of his best men and his men were tired. Harold made the mistake of entering the Battle of Hastings before his men had fully recovered. Luck or chance played a part because Harold had been ready for William’s invasion but storms had stopped William from crossing the English Channel to attack. While Harold was North fighting the Vikings, the weather changed and William was able to cross the Channel and land safely in England. During the Battle of Hastings, the Normans pretended to retreat and when the Saxons left Senlac Hill and chased after them, the Normans turned around and slaughtered them. The Normans had another advantage, they had cavalry whereas the Saxons all fought on foot. Harold Godwinson was killed. William and the Normans had won!</p> | <p>Contender: a person or group competing with others to achieve something.</p> <p>Saxons: a group of people from Saxony (Northern Germany) Anglo-Saxons: The Saxons who settled in England...eventually known as the English</p> <p>Vikings: Is the modern name given to sea travelling people from Scandinavia (Northern Europe: present-day Denmark, Norway and Sweden)</p> <p>Normans: Originally Vikings, this group settled in Normandy (Northern France) in 911 A.D</p> <p>Monarch: A King or Queen</p> <p>Baron: A rich, landowning Norman knight</p> <p>Invasion: An unwelcome attack of one country’s army into another country</p> <p>Cavalry: Soldiers who fight on horseback.</p> <p>Conquest: When one country takes over another. To conquer is to achieve conquest</p> <p>Victory: To win a war – to have success</p> <p>Bayeux Tapestry: A long set of pictures sewn on cloth showing the story of the Norman conquest of England. This gives the Norman version of events!</p> |
| <p>Week 3: How did William’s use of terror help him to keep control over the English?</p>  | <p>William had to crush many rebellions. The biggest rebellion was in the north of England between 1068- 1069. He trusted two Saxon Earls, Edwin and Morcar, to look after that part of the country for him. When William tried to raise taxes from their land, they joined forces with some Danish invaders and rose up against the Normans in 1069. William marched an army up North to teach them a lesson that they would never forget. From 1069 to 1070, he ordered villages to be destroyed and people to be killed. Herds of animals and crops were burnt. Most people who survived starved to death (100,000). Not only was the population reduced by 75% but land was salted (poisoned) to prevent people growing crops in the future. This was</p> | <p>To Harry: To trouble a group of people by repeated attacks</p> <p>Harrying of the North: Mass killing of Saxon’s in and around the city of York.</p> <p>Terror and terrorism: using fear to try and control people.</p> <p>Absolute Monarchy: King can do anything he wants.</p> <p>Control: power over people</p> |

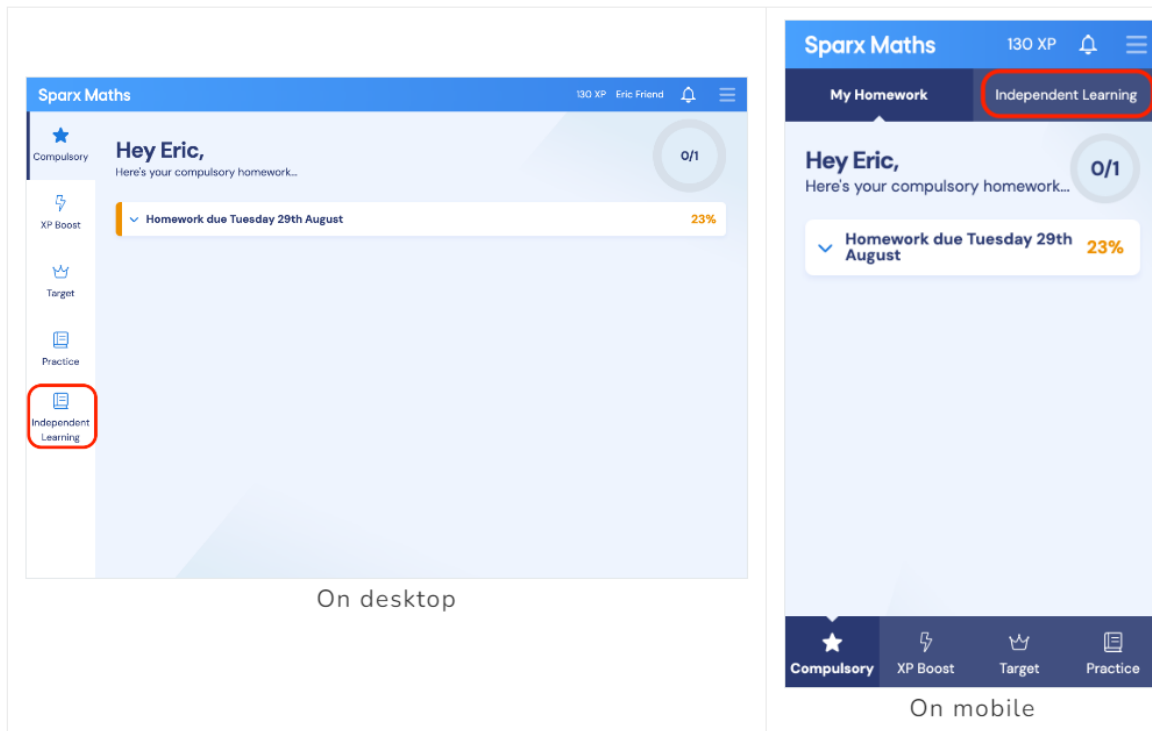
| | | |
|--|--|--|
| | <p>called the Harrying of the North. Following these events there were no more widespread rebellions against William.</p> | <p>Rebel / rebellion: to fight back against those in power Famine: When crops fails and large numbers of people starve Cannibalism: Eating human flesh</p> |
| <p>Week 5: How did William's use of castles help him to keep control over the English?</p>  | <p>Castles were vital to Williams's takeover and control of England. The Normans built Motte and Bailey style castles. These were constructed out of earth and wood. They were built for speed as there were 10,000 Normans facing a population of two million Saxons! Castles would protect Norman soldiers as well as acting as a base to attack and conquer a new area of land. They were built on high ground at river crossings so Normans could control the movement of goods and people.</p> <p>Castles would have helped maintain law and order. They provided jobs for the local community. Saxons were forced to build them without payment, often taxes were raised to pay for the very buildings which would control them. Often Saxons homes were destroyed to make way for the castles e.g. in Lincoln. The Saxons would have felt intimidated and fearful and felt watched over. Alongside the Motte and Bailey Castles some early stone castles were constructed e.g. the Tower of London and Chepstow Castle.</p> | <p>Motte and Bailey Castles: Castles constructed out of soil and wood Motte: Norman word for mound. Bailey: A courtyard enclosed by a curtain wall or palisade. This area had the day to day living areas housed within it. Palisade: a wooden fence of pales or stakes set firmly in the ground, acting as a defensive wall. Keep: A strong tower. The best place to keep safe! This was built at the top of a motte in a Motte and Bailey castle Moat: A ditch filled with water surrounding a castle. Drawbridge: A gate over a ditch or moat that can be raised as defence.</p> |

Maths

On a Monday, your Maths task will be set by your teacher. You should log on to Sparx Maths to complete this task. Your practice book has an area for your workings which you need to use as during the homework, Sparx Maths undertakes a bookwork check.

On a Thursday you practice independently on an area where you have a gap in your knowledge.

When logged in to Sparx students will always be able to see the Independent Learning option on the main menu:



MFL – French

Tu aimes l'histoire? Do you like history?

Quelle est ta matière préférée? What is your favourite subject? (opinions + reasons)

| Opinion phrase | School subject | Conjunction | Verb | Qualifier | Adjective |
|--|--|------------------|------------------------------|--|--|
| Ma matière préférée c'est... <i>(My subject favourite is...)</i> | le français (french) le théâtre (drama) | car (because) | c'est <i>it is</i> | <i>assez (quite)</i> <i>très (very)</i> <i>vraiment (really)</i> | utile (<i>useful</i>) facile (<i>easy</i>) intéressant (<i>interesting</i>) amusant (<i>fun</i>) créatif (<i>creative</i>) |
| J'adore <i>(I love)</i> | la musique (music) la technologie (DT) la géographie (geography) | | | | |
| J'aime <i>(I like)</i> | l'anglais (english) l'informatique (ICT) l'espagnol (spanish) l'EPS (pe) l'histoire (history) | mais (but) | | | difficile (<i>difficult</i>) ennuyeux (<i>boring</i>) nul (<i>rubbish</i>) |
| Je préfère <i>(I prefer)</i> | | | | | |
| Je n'aime pas <i>(I don't like)</i> | | | | le prof est <i>the teacher is</i> | sympa (<i>nice</i>) trop sévère (<i>too strict</i>) |
| Je déteste <i>(I hate)</i> | les arts plastiques (art) les sciences (science) les maths (maths) | | j'ai <i>I have</i> | | trop de devoirs (<i>too much homework</i>) |




Parle-moi d'une journée typique au collège:

Tell me about a typical school day: (present tense verbs)

le / la / les = the au / à la / aux = to the / at the

| Verb (conjugated –er form) | school subject | at | time (hours + minutes) |
|---|--|----|--|
| j'étudie (<i>I study</i>) nous étudions (<i>we study</i>) | le français (french) la technologie (DT) l'informatique (ICT) les maths (maths) | à | [huit] heures ([8] O'clock) [huit] heures dix ([8] hours ten – 8:10) [huit] heures et quart ([8] hours and quarter – 8:15) [huit] heures et demie ([8] hours and half – 8:30) [huit] heures moins cinq ([8] hours minus five – 7:55) [huit] heures moins le quart ([8] hours minus the quarter -7:45) |
| je commence (<i>I begin/start</i>) nous commençons (<i>we begin/start</i>) | les cours (lessons) | | |
| je quitte (<i>I leave</i>) nous quittons (<i>we leave</i>) | la maison (the house) | | |
| j'arrive (<i>I arrive</i>) nous arrivons (<i>we arrive</i>) | au collège (at the school) | | |
| je mange (<i>I eat</i>) nous mangeons (<i>we eat</i>) | à la cantine (at the canteen) un sandwich (a sandwich) | | |
| je retrouve (<i>I meet</i>) nous retrouvons (<i>we meet</i>) | mes amis (<i>my friends</i>) nos amis (<i>our friends</i>) | | |

Qu'est-ce que tu portes normalement? What do you wear normally?

| Time phrase | Verb (present/future) | clothing |
|--|---|--|
| Normalement (normally) Au collège (at school) D'habitude (usually) | je porte (I wear/I am wearing) nous portons (we wear/we are wearing) | un pantalon  |
| | | une chemise  |
| | | une cravate  |
| | | une jupe  |
| | | une veste  |
| | | des gants (some gloves)-m pl |
| | | des baskets – trainers |
| | | des chaussettes  |
| | | des chaussures  |

Qu'est-ce que tu portes au collège?

What do you wear to school? (Present and near future tenses)

| Time phrase | Verb (present/future) | clothing | colour (m/f/m pl / f pl) |
|---|---|--|---|
| Normalement (normally) Au collège (at school) D'habitude (usually) | je porte (I wear/I am wearing) | un polo (a polo shirt) un pantalon (a pair of trousers) | blanc /blanche / blancs / blanches (white) noir / noire / noirs/ noires (black) bleu / bleue/bleus / bleues (blue) vert/verte/verts/vertes (green) chic/chic/chics/chics (stylish) confortable/confortable/ confortables/confortables (comfortable) pratique/pratique/pratiques/pratiques (practical) démodé/démodée/ démodés/ démodées (unfashionable) |
| | nous portons (we wear/we are wearing) | un tee-shirt (a t-shirt) un manteau (a coat) | |
| | | une chemise (a shirt) une cravate (a tie) une jupe (a skirt) une veste (a blazer) | |
| Ce week-end (this weekend) | je vais porter (I am going to wear) | des gants (some gloves)-m pl | |
| Le week-end prochain (the weekend next) | | des baskets (some trainers) f pl des chaussettes (some socks) | |
| Demain (tomorrow) | | des chaussures (some shoes) | |

Don't forget to add an opinion. J'aime le/la/les [clothing] car c'est + adjective
 e.g. j'aime la cravate car c'est pratique

French HT3 Vocabulary:

Week 1:

| | |
|---------------------------------------|-----------------------------------|
| a matière préférée, c'est [l'anglais] | my favourite subject is [English] |
| j'adore | I love |
| je déteste | I hate |
| je préfère | I prefer |
| les maths | maths |
| la géographie | geography |
| le français | french |
| l'informatique | I.T. |
| <i>j'aime</i> | <i>I like</i> |
| <i>je n'aime pas</i> | <i>I don't like</i> |

https://quizlet.com/_auvjlm?x=1qqt&i=1xg9z8

Week 3:

| | |
|-----------------|----------------|
| j'étudie | I study |
| nous étudions | we study |
| je commence | I begin |
| nous commençons | we begin |
| je quitte | I leave |
| nous quittons | we leave |
| je retrouve | I meet |
| nous retrouvons | we meet |
| <i>car</i> | <i>because</i> |
| <i>c'est</i> | <i>it is</i> |

https://quizlet.com/_auvlvx?x=1qqt&i=1xg9z8

Week 5:

| | |
|-----------------------------|------------------------|
| sur la photo | in the photo |
| il y a | there is /are |
| (dix) personnes | (10) people |
| un professeur (un prof) | a teacher |
| un garçon / une fille | a boy/a girl |
| la photo a été prise... | the photo was taken... |
| ...dans un collège | ...in a school |
| ...dans une salle de classe | ...in a classroom |
| <i>il est</i> | <i>he is</i> |
| <i>elle est</i> | <i>she is</i> |

https://quizlet.com/_auvocx?x=1qqt&i=1xg9z8

Week 6:

All of the above !

Week 2:

| | |
|---|--|
| car | because |
| c'est | it is |
| utile | useful |
| facile | easy |
| difficile | difficult |
| ennuyeux | boring |
| le prof est [sévère] | the teacher is [strict] |
| mais | but |
| <i>ma matière préférée, c'est [l'anglais]</i> | <i>my favourite subject is [English]</i> |
| <i>je préfère</i> | <i>I prefer</i> |

https://quizlet.com/_auvkzi?x=1qqt&i=1xg9z8

Week 4:

| | |
|------------------------------|-------------------|
| à | at |
| une heure | 1 O'clock |
| deux heures | 2 O'clock |
| deux heures et quart | quarter past two |
| deux heures et demie | half past two |
| deux heures dix | ten past two |
| deux heures moins le quart | quarter to two |
| <i>deux heures moins dix</i> | <i>ten to two</i> |
| <i>je commence</i> | <i>I begin</i> |
| <i>nous commençons</i> | <i>we begin</i> |

MFL – German

Sentence Builder 1 – Hast du Geschwister? Do you have siblings?

| | | |
|--|--|--|
| Ich habe I have Er hat He has Sie hat She has | einen Bruder <i>a brother</i> einen Stiefbruder <i>a stepbrother</i> einen Halbbruder <i>a half brother</i> einen Zwillingsbruder <i>a twin brother</i> | Es gibt sechs Personen in meiner Familie <i>There are 6 people in my family.</i> |
| | eine Schwester <i>a sister</i> eine Stiefschwester <i>a stepsister</i> eine Halbschwester <i>a half sister.</i> eine Zwillingsschwester <i>a twin sister</i> | Hast du Geschwister? <i>Do you have any brothers or sisters?</i> |
| | zwei Brüder <i>two brothers</i> drei Schwestern <i>three sisters</i> vier Stiefbrüder <i>four stepbrothers</i> zwei Halbschwestern <i>two half sisters</i> keine Geschwister <i>no siblings</i> | |
| Ich bin I am Er ist He is Sie ist She is | Einzelkind <i>an only child</i> | |

Sentence Builder 2 – Beschreibe deine Familie Describe your family.

| noun | Subject and verb |
|---|--|
| Mein Vater <i>my father</i> Mein Bruder <i>my brother</i> Mein Stiefbruder <i>my stepbrother</i> Mein Halbbruder <i>my halfbrother</i> Mein Opa <i>my grandpa</i> Mein Onkel <i>my uncle</i> Mein Cousin <i>my cousin male</i> mein Neffe <i>my nephew</i> | heißt Boris <i>is called Boris</i> ist X Jahre alt <i>is X years old</i> wohnt in Bristol <i>lives in Bristol</i> |
| meine Mutter <i>my mother</i> meine Schwester <i>my sister</i> meine Stiefschwester <i>my stepsister</i> meine Halbschwester <i>my half sister</i> meine Oma <i>my grandma</i> meine Tante <i>my aunt</i> meine Cousine <i>my cousin female</i> meine Nichte <i>my niece</i> | heißt Carrie <i>is called Carrie</i> ist X Jahre alt <i>is X years old</i> wohnt in London <i>lives in London</i> |
| Meine Eltern <i>my parents</i> Meine Großeltern <i>my grandparents</i> meine Cousins <i>my cousins</i> | heißen Elizabeth und Philip <i>are called Elizabeth and Philip</i> sind X Jahre alt <i>are X years old</i> wohnen in Cardiff <i>live in Cardiff</i> |

Sentence Builder 3 – **Wie sehensie aus?** What do they look like?

| | | | |
|--|---|--|------------|
| subject and verb | Adjective and noun | | |
| Ich habe I have Er hat He has Sie hat She has Sie haben They have | kurze short lange long mittellange mid length lockige curly glatte straight wellige wavy | schwarze black braune brown blonde blonde rote red weiße white graue grey | Haare hair |
| | blaue blue braune brown grüne green graue grey hellgrüne light green dunkelblaue dark blue | | Augen eyes |
| Ich trage I wear Er trägt He wears Sie trägt She wears Sie tragen They wear | eine Brille glasses | | |
| Ich bin I am Er ist He is Sie ist She is Sie sind they are | groß tall / big mittelgroß medium schlank slim kräftig strong dick fat klein small | | |

Sentence Builder 4 – **Wie sind sie?** What are they like?

| Relative | Verb | Intensifier | Adjective | Conn. | Adverb of Freq | Adjective |
|---|-------------|--|----------------------------|--|------------------------|-------------------------|
| Mein Vater My father | ist is | total <i>totally</i> sehr <i>very</i> ziemlich <i>quite</i> ein bisschen <i>a bit</i> | intelligent intelligent | aber but | immer always | schüchtern shy |
| Mein Bruder My brother | | | sportlich sporty | | oft often | launisch moody |
| Mein Onkel My uncle | | | musikalisch musical | | häufig frequently | frech cheeky |
| Mein Großvater My grandfather | | | und and | regelmäßig regularly manchmal sometimes ab und zu now & again selten rarely nie never | kreativ creative | gemein mean |
| Mein Cousin My male cousin | | | | | freundlich friendly | streng strict |
| Meine Mutter My mother | | | | | lustig funny | laut loud |
| Meine Schwester My sister | | | | | nett nice | ungeduldig impatient |
| Meine Tante My aunt | | | | | faul lazy | gemein mean |
| Meine Großmutter My grandmother | | | | | unpünktlich late | nervig annoying |
| Meine Kusine My female cousin | jung young | | | | | |
| Meine Eltern My parents | alt old | | | | | |
| Meine Großeltern My grandparents | | | | | | |
| Meine Geschwister My siblings | | | | | | |
| Meine Brüder My brothers | | | | | | |
| Meine Schwestern My sisters | | | | | | |
| | sind are | nicht <i>not</i> | | oder or | | |

| subject and verb | noun | Subject and verb |
|---|--|---|
| Ich habe <i>I have</i> Ich hatte <i>I had</i> Ich möchte <i>I would like</i> | einen Hund <i>a dog</i> einen Goldfisch <i>a goldfish</i> einen Hamster <i>a hamster</i> | Er heißt Bob <i>He/it's called Bob</i> |
| | eine Katze <i>a cat</i> eine Maus <i>a mouse</i> eine Schlange <i>a snake</i> | Sie heißt Mitzi <i>She/it's called Mitzi</i> |
| | ein Kaninchen <i>a rabbit</i> ein Pferd <i>a horse</i> ein Meerschweinchen <i>a guinea pig</i> | Es heißt Nudel <i>It's called Nudel</i> |
| | zwei Hunde <i>two dogs</i> zwei Goldfische <i>two goldfish</i> zwei Hamster <i>two hamsters</i> zwei Katzen <i>two cats</i> zwei Mäuse <i>two mice</i> zwei Schlangen <i>two snakes</i> zwei Kaninchen <i>two rabbits</i> zwei Pferde <i>two horses</i> zwei Meerschweinchen <i>two guinea pigs</i> | Sie heißen... <i>they are called</i> |

| Wie ist er/sie/es? <i>What is he/she/it like?</i> | |
|---|---|
| Er ist <i>He is</i> Sie ist <i>She is</i> Es ist <i>It is</i> Sie sind <i>They are</i> | cool <i>cool</i> gemein <i>mean</i> kräftig <i>strong</i> schlau <i>cunning</i> schnell <i>fast</i> superintelligent <i>highly intelligent</i> superlustig <i>really funny</i> süß <i>cute/sweet</i> |
| Er kann <i>He can</i> Sie kann <i>She can</i> Es kann <i>It can</i> Sie können <i>They can</i> | springen <i>jump</i> Fußballspielen <i>play football</i> fliegen <i>fly</i> Flöte spielen <i>play the flute</i> Xbox spielen <i>play the xbox</i> lesen <i>read</i> Italienisch sprechen <i>speak Italian</i> singen <i>sing</i> Rad fahren <i>cycle</i> schnelllaufen <i>run fast</i> tanzen <i>dance</i> schwimmen <i>swim</i> |

German HT3 Vocabulary:

Week 1:

| | |
|------------------------|----------------------|
| Ich habe | I have |
| einen Bruder | a brother |
| einen Vater | a father |
| einen Onkel | an uncle |
| eine Schwester | a sister |
| eine Mutter | a mum |
| eine Tante | an aunt |
| zwei Brüder/Schwestern | two brothers/sisters |
| Ich heiße | I am called |
| Ich bin (Einzelkind) | I am (an only child) |

Week 2:

| | |
|-----------------|---------------|
| braune Augen | brown eyes |
| blaue Augen | blue eyes |
| graue Augen | grey eyes |
| blonde Haare | blonde hair |
| kurze Haare | short hair |
| lange Haare | long hair |
| glatte Haare | straight hair |
| lockige Haare | curly hair |
| <i>Ich habe</i> | <i>I have</i> |
| <i>Ich bin</i> | <i>I am</i> |

Week 3: size and height + intensifiers

| | |
|------------------|--------------------|
| Ich bin | I am |
| Du bist | You are |
| Er ist | He is |
| Sie ist | She is |
| ganz | quite |
| ziemlich | rather |
| groß | tall |
| klein | short |
| <i>ich habe</i> | <i>I have</i> |
| <i>ich heiße</i> | <i>I am called</i> |

Week 4:

| | |
|-------------------|------------------|
| sehr | very |
| ziemlich | quite |
| nicht | not |
| schüchtern | shy |
| launisch | moody |
| sportlich | sporty |
| musikalisch | musical |
| freundlich | friendly |
| <i>ich bin</i> | <i>I am</i> |
| <i>er/sie ist</i> | <i>he/she is</i> |

Week 5 :

| | |
|---------------------|--------------------|
| ich hatte | I had |
| ich möchte | I would like |
| einen Hund | a dog |
| eine Katze | a cat |
| ein Kaninchen | a rabbit |
| ein Pferd | a horse |
| ein Meerschweinchen | a guinea pig |
| er/sie heißt | he/she is called |
| <i>ich habe</i> | <i>I have</i> |
| <i>ich heiße</i> | <i>I am called</i> |

MFL – Mandarin

我家有五口人：爸爸、妈妈、弟弟、妹妹和我。 My family has 5 people: Dad, Mum, younger brother, younger sister and me.

| Subject | family | to have | number | measure word | person people | family members | and | pronoun |
|--|--------|---------|--|--------------|---------------|--|-----|---------------------------------|
| 我 I 你 You 他 He 她 She 老师 Teacher Lily | 家 | 有 | 一 二 三 四 五 六 七 八 九 十 | 口 | 人 | 爸爸 Dad 妈妈 Mum 哥哥 older brother 弟弟 younger brother 姐姐 older sister 妹妹 younger sister | 和 | 我 me 你 you 他 him 她 her |

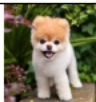





我有一个弟弟和一个妹妹。 I have a younger brother and a younger sister.

| Subject | to have | number | measure word | family members | and | number | measure word | family members |
|--|---------|--|--------------|--|-----|--|--------------|--|
| 我 I 你 You 他 He 她 She 老师 Teacher | 有 | 一 二 三 四 五 六 七 八 九 十 | 个 | 哥哥 older brother 弟弟 younger brother 姐姐 older sister 妹妹 younger sister | 和 | 一 二 三 四 五 六 七 八 九 十 | 个 | 哥哥 older brother 弟弟 younger brother 姐姐 older sister 妹妹 younger sister |

wǒ méi yǒu dì dì
我没有弟弟。 I don't have a younger brother.

| Subject | not have | family members |
|--------------------|------------|------------------------------|
| wǒ 我 I | méi yǒu 没有 | gē gē 哥哥 older brother |
| nǐ 你 You | | dì dì 弟弟 younger brother |
| tā 他 He | | jiě jiě 姐姐 older sister |
| tā 她 She | | mèi mèi 妹妹 younger sister |
| lǎo shī 老师 Teacher | | |
| bà bà 爸爸 Dad | | |
| mā mā 妈妈 Mum | | |
| Lily | | |

wǒ yǒu yī zhī xiǎo gǒu
我有一只小狗。 I have a small dog.

| Subject | verb | number | measure word | adjective | pet | | |
|---------------------------|-------------------|-----------|--------------|-----------|---|---|--|
| wǒ 我 I | yǒu 有 has have | yī 一 1 | zhī 只 | dà 大 big | gǒu 狗  | | |
| bà bà 爸爸 Dad | | liǎng 两 2 | | | | māo 猫  | |
| mā mā 妈妈 Mum | | sān 三 3 | | | | | niǎo 鸟  |
| gē gē 哥哥 older brother | | sì 四 4 | | | | | tù zǐ 兔子  |
| dì dì 弟弟 younger brother | | wǔ 五 5 | | | | xiǎo 小 small | |
| jiě jiě 姐姐 older sister | | liù 六 6 | | | | | |
| mèi mèi 妹妹 younger sister | | qī 七 7 | | | | | |
| péng yǒu 朋友 friend | | bā 八 8 | | | | | |
| | | jiǔ 九 9 | | | | yú 鱼  | |
| | | shí 十 10 | | tiáo 条 | | shé 蛇  | |

My birthday is December 25th. 我的生日是十二月二十五日。

| who | 的 de | birthday shēng rì | is shì | number | month yuè | number | day rì |
|---------------------------------|----------------------------|----------------------|-----------|-----------------|--------------|----------------------|-----------|
| 我 wǒ I | 的 de Possessive form | 生日 shēng rì | 是 shì | 一 1 yī | 月 yuè | 十三 13 shí sān | 日 rì |
| 爸爸 bà ba Dad | | | | 二 2 èr | | 十四 14 shí sì | |
| 妈妈 mā ma Mum | | | | 三 3 sān | | 十五 15 shí wǔ | |
| 哥哥 gē ge older brother | | | | 四 4 sì | | 十六 16 shí liù | |
| 弟弟 dì di younger brother | | | | 五 5 wǔ | | 十七 17 shí qī | |
| 姐姐 jiě jie older sister | | | | 六 6 liù | | 十八 18 shí bā | |
| 妹妹 mèi mei younger sister | | | | 七 7 qī | | 十九 19 shí jiǔ | |
| 老师 lǎo shī teacher | | | | 八 8 bā | | 二十 20 èr shí | |
| | | | | 九 9 jiǔ | | 二十一 21 èr shí yī | |
| | | | | 十 10 shí | | 二十九 22 èr shí jiǔ | |
| | | | | 十一 11 shí yī | | 三十 30 sān shí | |
| | | | | 十二 12 shí èr | | 三十一 31 sān shí yī | |

Week 2

| | |
|----|-----------------|
| 爸爸 | Father |
| 哥哥 | Older brother |
| 弟弟 | Younger brother |
| 妈妈 | Mother |
| 姐姐 | Older sister |
| 妹妹 | Younger sister |
| 家 | Home; family |
| 有 | To have |
| 口 | Measure word |
| 和 | and |

Week 3

| | |
|----|-------------------------|
| 狗 | Dog |
| 猫 | Cat |
| 鸟 | Bird |
| 兔子 | Rabbit |
| 鱼 | Fish |
| 蛇 | Snake |
| 没有 | Don't have |
| 只 | Measure word for animal |
| 条 | Measure word for animal |
| 小 | small |

Week 4

| | |
|----|-----------------|
| 喜欢 | To like |
| 因为 | because |
| 可爱 | lovely |
| 很好 | Very good |
| 不好 | Not good |
| 大 | Big |
| 的 | Possessive form |
| 吗 | Question word |
| 几 | How many |
| 什么 | What |

Week 5

| | |
|----|-----------------|
| 的 | Possessive form |
| 生日 | Birthday |
| 是 | To be |
| 月 | Month |
| 日 | Day |
| 今天 | Today |
| 爷爷 | Father's father |
| 奶奶 | Father's mother |
| 豸 | Animal radical |
| 岁 | ...years old |

Week 6

| | |
|---|-----------------|
| 石 | Stone |
| 火 | Fire |
| 舌 | Tongue |
| 讠 | Speech radical |
| 车 | Vehicle |
| 饣 | Food radical |
| 豸 | Animal radical |
| 的 | Possessive form |
| 吗 | Question word |
| 大 | big |

MFL – Spanish

| INTRODUCING | NOUN | VERB | NOUN | CONNEX | VERB | 1- un | NOUN |
|---|---|---|--------------------------------|--------------------------|------------------------------------|--|-----------------------------------|
| En mi familia tengo a <i>(In my family I have...)</i> Me llevo bien con... <i>(I get along well with)</i> Me llevo mal con... <i>(I get along badly with)</i> | mi abuelo <i>(my grandfather)</i> mi padre <i>(my father)</i> mi padrastro <i>(my step-father)</i> mi tío <i>(my uncle)</i> mi hermano mayor <i>(my older brother)</i> mi hermano menor <i>(my younger brother)</i> mi hermanastro <i>(my step-brother)</i> mi primo <i>(my male cousin)</i> | que se llama _ <i>(who is called _)</i> | Paloma Ismael | y <i>(and)</i> | tiene <i>(he/she is)</i> | 1- un | año <i>(year old)</i> |
| | mi abuela <i>(my grandmother)</i> mi madre <i>(my mother)</i> mi madrastra <i>(my step-mother)</i> mi tía <i>(my aunt)</i> mi hermana mayor <i>(my older sister)</i> mi hermana menor <i>(my younger sister)</i> mi hermanastra <i>(my step-sister)</i> mi prima <i>(my female cousin)</i> | | | | | 2- dos 3- tres 4- cuatro 5- cinco 6- seis 7- siete 8- ocho 9- nueve 10- diez 15- quince 20- veinte 21- veintiuno 30- treinta 40- cuarenta 50- cincuenta 60- sesenta 70- setenta 80- ochenta 90- noventa 100- cien | años <i>(years old)</i> |
| | En mi familia hay "cuatro" personas =In my family There are "4" people | | | | | | |

| OPINION P' | NOUN- family | VERB | QUANTIFIER | ADJECTIVE | CONNECTIVE |
|--|--|--|---|--|---|
| Pienso que <i>(I think that)</i> Creo que <i>(I believe that)</i> | Yo <i>(I)</i> | soy <i>(...am)</i> es <i>(is)</i> | demasiado <i>(too)</i> muy <i>(very)</i> | alto/a <i>(tall)</i> bajo /a <i>(short)</i> delgado/a <i>(slim)</i> gordo /a <i>(fat)</i> guapo/a <i>(handsome)</i> feo /a <i>(ugly)</i> musculoso/a <i>(muscular)</i> | pero <i>(but)</i> sin embargo <i>(however)</i> |
| | En mi opinión <i>(In my opinion)</i> | | | mi abuelo mi padre mi padrastro mi tío mi hermano mayor mi hermano menor mi hermanastro mi primo mi abuela mi madre mi madrastra mi tía mi hermana mayor mi hermana menor mi hermanastra mi prima | |

| VERB | NOUN | ADJECTIVE | ADJECTIVE | CONN' | ADJECTIVE |
|---|------------------------------------|---|--|--------------------------|---|
| Tengo <i>(I have)</i> | el pelo <i>(hair)</i> | castaño <i>(brown)</i> moreno <i>(dark brown)</i> negro <i>(black)</i> pelirrojo <i>(ginger)</i> rubio <i>(blonde)</i> | en punta <i>(spiky)</i> liso <i>(straight)</i> rizado <i>(curly)</i> ondulado <i>(wavy)</i> | y <i>(and)</i> | largo <i>(long)</i> a media melena <i>(medium length)</i> corto <i>(short)</i> rapado <i>(very short / shaved)</i> |
| Tiene <i>(He/She has)</i> | los ojos <i>(eyes)</i> | azules <i>(blue)</i> marrones <i>(brown)</i> verdes <i>(green)</i> negros <i>(black)</i> | | | |
| [No] llevo <i>I [don't] wear</i> | gafas <i>(glasses)</i> | | | | |
| [No] lleva <i>He/She [doesn't] wear</i> | bigote <i>(a moustache)</i> | | | | |
| | barba <i>(a beard)</i> | | | | |

| OPINION PHRASES | NOUN- family | CONN' | VERB | QUANTIFIER | ADJECTIVE | | | |
|---|---|-----------------------------------|---------------------------------|---|---|--------------------------------|-------------------------------|--|
| Prefiero - <i>I prefer</i> | mi abuelo mi padre mi padrastro mi tío mi hermano mayor mi hermano menor mi hermanastro mi primo | Porque <i>(because)</i> | es <i>(she/he is)</i> | demasiado <i>(too)</i> | alto/a <i>(tall)</i> bajo /a <i>(short)</i> delgado/a <i>(slim)</i> gordo /a <i>(fat)</i> guapo/a <i>(handsome)</i> feo /a <i>(ugly)</i> musculoso/a <i>(muscular)</i> | | | |
| Me encanta - <i>I love</i> | | | | | muy <i>(very)</i> | bastante <i>(quite)</i> | un poco <i>(a bit)</i> | divertido/a <i>(fun)</i> aburrido /a <i>(boring)</i> simpático/a <i>(nice)</i> antipático /a <i>(mean)</i> generoso/a <i>(generous)</i> trabajador/a <i>(hard-working)</i> perezoso /a <i>(lazy)</i> terco /a <i>(stubborn)</i> tonto /a <i>(silly)</i> |
| Me flipa - <i>I'm crazy about</i> | | | | | | | | amable <i>(kind)</i> fuerte <i>(strong)</i> inteligente <i>(intelligent)</i> paciente <i>(patient)</i> |
| Me gusta mucho - <i>I really like</i> | | | | | | | | |
| Me gusta - <i>I like</i> | | | | | | | | |
| No me gusta - <i>I don't like</i> | | | | | | | | |
| Odio - <i>I hate</i> | | | | | | | | |
| Me llevo bien con... <i>(I get along well with)</i> | | | | mi abuela mi madre mi madrastra mi tía mi hermana mayor mi hermana menor mi hermanastra mi prima | | | | |
| Me llevo mal con... <i>(I get along badly with)</i> | | | | | | | | |

Spanish HT3 Vocabulary:

Week 1:

| | |
|--------------------------------------|---|
| En mi familia hay | In my family there are |
| En mi familia tengo | In my family I have |
| Mi abuelo | My grandad |
| Mi padre | My dad |
| Mi tío | My uncle |
| Mi hermano mayor | My older brother |
| Mi hermano menor | My younger brother |
| Mi hermanastro | My step brother |
| Mi primo | My male cousin |
| ¿Cuántas personas hay en tu familia? | How many people are there in your family? |

Week 2:

| | |
|--------------------------------------|---|
| En mi familia hay | In my family there are |
| En mi familia tengo | In my family I have |
| Mi abuela | My grandmother |
| Mi madre | My mum |
| Mi tía | My aunt |
| Mi hermana mayor | My older sister |
| Mi hermana menor | My younger sister |
| Mi hermanastra | My step sister |
| Mi prima | My female cousin |
| ¿Cuántas personas hay en tu familia? | How many people are there in your family? |

Week 3:

| | |
|----------------|----------------|
| Pienso que | I think that |
| Creo que | I believe that |
| En mi opinión | In my opinion |
| Demasiado | Too |
| Muy | Very |
| Bastante | Quite |
| Poco | A bit |
| Ella es/ él es | She is / He is |
| Sin embargo | However |
| También | Also |

Week 4:

| | |
|-----------|----------|
| Alto | Tall |
| Bajo | Short |
| Delgado | Slim |
| Gordo | Fat |
| Guapo | Handsome |
| Feo | Ugly |
| Musculoso | Muscular |
| Divertido | Fun |
| Aburrido | Boring |
| Simpático | Nice |

Week 5:

| | |
|-------------|-------------|
| Antipático | Mean |
| Generoso | Generous |
| Trabajador | Hardworking |
| Perezoso | Lazy |
| Terco | Stubborn |
| Tonto | Silly |
| Amable | kind |
| Fuerte | Strong |
| Inteligente | Intelligent |
| Paciente | Patient |

Week 6:

| | |
|-----------|-------------|
| yo tengo | I have |
| El pelo | Hair |
| Castaño | Light brown |
| Moreno | Dark brown |
| Rubio | Blonde |
| Pelirrojo | Ginger |
| Negro | Black |
| En punta | Spiky |
| Liso | Straight |
| Rizado | Curly |

Music

A Journey Through Space Knowledge Organiser

Written between 1914-1916 by British composer Gustav Holst, 'The Planets' represents all the known planets of the Solar System seen from Earth at the time, and their astrological character, including Mars the Bringer of War and Venus the Bringer of Peace



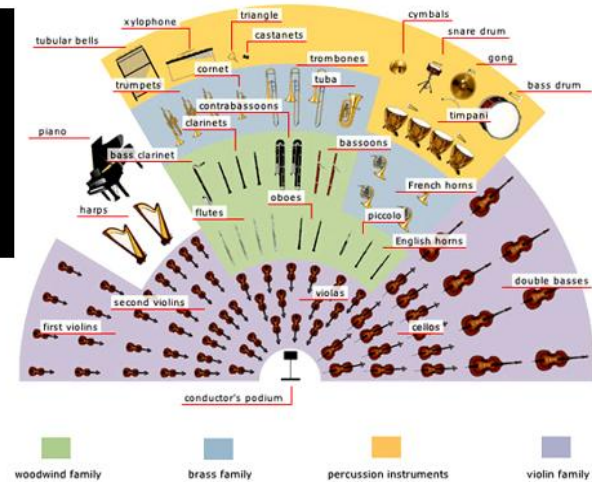
Melody – Pentatonic Scale

C D E G A C

C major pentatonic scale

Harmony

Task: Compose an 8-bar melody using the C major pentatonic scale. Balance is important: your melody should usually be 8 bars long, so you should break it down into two parts or "phrases", (this is called *binary form*). The first phrase will be bars 1-4, and the second phrase will be bars 5-8. If you like, you can then divide each phrase into 2, giving you four short 2-bar phrases. We can call these four phrases 1a, 1b, 2a and 2b.



Scan to Listen

VENUS

Venus, The Bringer of Peace

URANUS

Uranus, The Magician

MERCURY

Mercury, The Winged Messenger

MARS

Mars, The Bringer of War

JUPITER

Jupiter, The Bringer of Jollity

NEPTUNE

Neptune, The Mystic

SATURN

Saturn, The Bringer of Old Age

Essential Key Words:

- Ostinato – Repeated Pattern
- Drone – Long continuous note
- Time Signature, Metre, - How many beats in the bar and what type of beat
- 5/4 – 5 crotchet beats in every bar
- Composer – Person that writes a piece of music
- crescendo – Dynamics, gradually getting louder
- triplet – 3 notes squashed in to the time it usually takes to play 2
- crotchet – note with a duration of 1 beat
- quaver – note with a duration of 1/2 a beat
- Dynamics – gradually getting louder
- Volume Automation – programming instruments volume in music software
- Texture – layers of music
- Synthesizer – electric usually keyboard instruments
- Chords – playing more than 1 note at the same time
- Suite – A collection of pieces of music intended on being played one after the other.

Danse Macabre – Knowledge Organiser

Programme Music – What is it? Scan here to find out and listen to more examples



"Danse Macabre" by Saint-Saëns, composed in 1874 and premiered in 1875, features a solo violin, xylophone, and full orchestra. **Inspired by a poem**, it depicts Death summoning skeletons to dance at midnight. The piece opens with twelve harp notes, symbolizing the twelve strokes of midnight



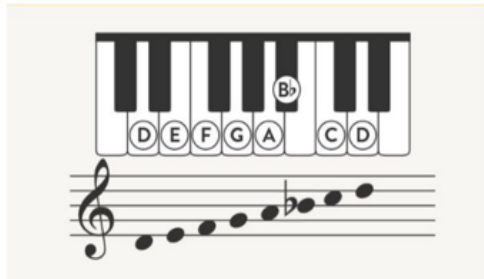
Activities

Listening Exercise: Identify the different sections of the piece and the instruments used.

Creative Task: Compose an 8-bar melody using the D minor scale. Balance is important: your melody should usually be 8 bars long, so you should break it down into two parts or "phrases", (this is called binary form). The first phrase will be bars 1-4, and the second phrase will be bars 5-8. If you like, you can then divide each phrase into 2, giving you four short 2-bar phrases. We can call these four phrases 1a, 1b, 2a and 2b.

Discussion: Explore how Saint-Saëns uses musical elements to create a spooky atmosphere.

Melody: D minor scale



•Key Words

- Chromatic scales (going up or down in semitones)
- Dissonance – notes that 'clash' when played together
- Tritone – a dissonant sound of 2 notes that are 3 tones apart
- Drones (held notes/rhythms on one pitch)
- Ostinato (repeated pattern)
- Tremolo (alternating on same note/octaves)
- D minor: see melody image for notes
- Metre - 3/4 Time signature – 3 crotchets in a bar
- Waltz – dance with 3 beats in a bar
- Timbre – The sonic quality of the sound that makes it different from other sounds e.g. the big gong cymbal sounds dark and warm. The small cymbal sounds bright and splashy
- Tone poem, also known as a symphonic poem - A piece of orchestral music that illustrates or evokes a non-musical source, such as a poem, painting, or landscape

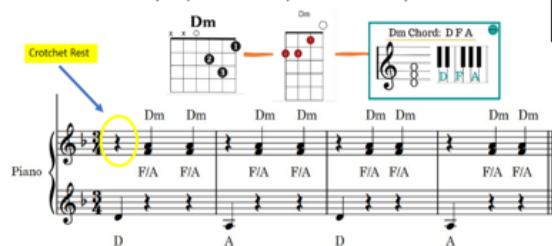


Danse Macabre – scan and click to listen

Listening Guide

- Introduction:** Harp strikes twelve times, representing the clock striking midnight.
- Death's Call:** Solo violin enters with the eerie tritone.
- Dance Begins:** The orchestra joins in, creating a lively and macabre dance
- Climax:** The music becomes more intense, with the full orchestra playing energetically
- Coda (ending):** The piece ends quietly as the cock crows, signalling dawn and the return of the skeletons to their graves.

Harmony (Chords)- Accompaniment



• Other relevant Key Words

- Crotchet – note with a duration of 1 beat
- Quaver – note with a duration of 1/2 a beat
- Dynamics crescendo - gradually getting louder
- Texture – layers of music
- Harmony and Chords – playing more than 1 note at the same time (see harmony image).

Key Words

- Chromatic scales (going up or down in semitones)



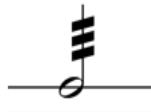
- Tritone – a dissonant sound of 2 notes that are 3 tones apart



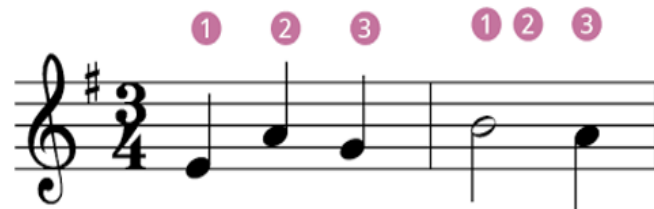
- Ostinato (repeated pattern) scan here for explanation



- Tremolo (alternating on same note/octaves)



- Metre - 3/4 Time signature – 3 crotchets in a bar



Religion and Worldviews

Week 1

The Origins of Hinduism

Hinduism is the main religion of India and Nepal. It includes the worship of one or more gods and the belief in reincarnation, which means being born again after death. Hinduism is connected to the eastern part of the world, which is to the east of Europe.

The roots of Hinduism go back to an ancient civilization called the Indus Valley Civilisation. This civilization existed a very long time ago, between 3500 and 1500 BCE. The people of this civilization lived in what is now modern-day India and Pakistan.

Hindus do not call their religion "Hinduism." Instead, they refer to it as **Sanatana dharma**, which means "eternal teaching," "eternal law," or "eternal truths." This name reflects the belief that the teachings of Hinduism are timeless and have always existed.

Understanding the origins of Hinduism helps us learn about the history and culture of India. The ancient Indus Valley Civilization played a significant role in shaping the religion and its practices. By studying this civilization, we can see how Hinduism developed and became an important part of Indian life.

India is known for its vibrant culture and the use of many colours. Each colour has a special meaning and is used in festivals, clothing, art, and daily life. For example, red is often worn by brides at weddings and symbolises love and passion. Yellow represents knowledge and learning, while green stands for life and happiness. Saffron, a sacred colour, symbolizes purity and religious devotion. These colours help to make Indian culture rich and lively, reflecting the diverse traditions and customs of the country.

Week 3

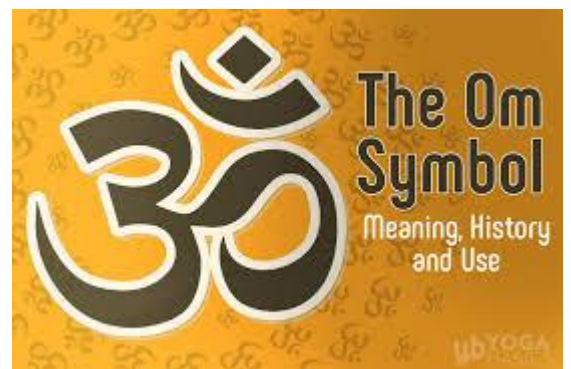
One of the Hindu Creation stories.

A long time ago, before there was anything in the world, there was a vast, dark ocean. In this ocean, a giant snake named Ananta floated peacefully. On top of this snake lay Lord Vishnu, a powerful god. Vishnu was resting, and everything was calm and quiet.

One day, Vishnu heard a sound, "Om," which woke him up. As he woke, a beautiful lotus flower began to grow from his belly button. This lotus flower was huge and pink, and it floated on the water. From the petals of this lotus flower, another god named Brahma was born.

Brahma looked around and saw only darkness. He did not know what to do, so he prayed to Vishnu for guidance. Vishnu, who was also inside Brahma's heart, told him how to create the world. Brahma listened carefully and began his work.

First, Brahma created the gods who would help run the universe. He made Chandra, the moon god, and Surya, the sun god, and placed them in the sky to bring night and day. He also made the stars and scattered them across the night sky like glittering diamonds. Brahma created the planets, such as Mercury, Venus, Earth, Mars, Jupiter, and Saturn, and sent them spinning into space.



Next, Brahma created other gods like Vayu, the god of wind, Agni, the god of fire, and Varuna, the god of water. These gods and goddesses were given the task of filling the universe with living beings. The goddesses gave birth to different types of creatures. First came humans, some of whom lived in heavenly worlds, while others, like us, lived on Earth. Then came the animals, followed by birds, insects, reptiles, fish, and finally, all kinds of plants.

As the gods and goddesses created these living beings, another god named Shiva breathed life into each one, giving them souls. These souls would move from one body to another, seeking happiness in the world. Some souls, when in human bodies, would search for God and eventually return to the spiritual world. This return is called moksha, or liberation.

This creation story shows how the world and everything in it came to be, according to Hindu beliefs. It also explains the roles of different gods and the cycle of life and rebirth that is central to Hinduism. By understanding this story, we can learn more about the rich traditions and beliefs that are part of Hindu culture.

Week 5

The Importance of Gods and Goddesses in Hinduism

In Hinduism, gods, and goddesses, also known as deities, are very important. A deity is a supernatural being with powers greater than that of ordinary humans. They are revered as divine or sacred. Each deity has unique characteristics and roles that help guide Hindus in their daily lives. Here are examples of three gods and three goddesses and why they are so important:

Gods

Vishnu – The Sustainer

Role and Importance: Vishnu is known as the Sustainer because he preserves and protects the universe. Whenever there is trouble, Vishnu comes to help restore balance and order. He is very important to Hindus because he ensures that the world remains safe and harmonious. **Example:** One of Vishnu's most famous avatars is Krishna, who played a key role in the epic story of the Mahabharata. Krishna's teachings in the Bhagavad Gita are very important to Hindus.



Shiva – The Destroyer

Role and Importance: Shiva is known as the Destroyer, but this does not mean he is evil. Instead, he destroys the old to make way for the new. This destruction is a necessary part of the cycle of life, death, and rebirth. Shiva helps Hindus understand that change is a natural part of life. **Example:** Shiva is often depicted meditating on Mount Kailash, showing his deep connection to spirituality and inner peace.

Brahma – The Creator

Role and Importance: Brahma is the Creator of the universe. He created all living beings and the world itself. Although he is not worshipped as much as Vishnu and Shiva, his role in creation is crucial. **Example:** Brahma is often shown with four faces, each looking in a different direction, symbolizing his all-seeing nature.

Goddesses

Saraswati – Goddess of Learning

Role and Importance: Saraswati is the Goddess of Learning, music, and the arts. She is very important to students and artists who pray to her for wisdom and success in their studies and creative endeavours. **Example:** During the festival of Vasant Panchami, Hindus celebrate Saraswati and seek her blessings for knowledge and learning.

Lakshmi – Goddess of Wealth

Role and Importance: Lakshmi is the Goddess of Wealth and prosperity. She is very important to Hindus who pray to her for financial success and well-being. Lakshmi brings good fortune and is often worshipped during the festival of Diwali. **Example:** Lakshmi is often depicted sitting on a lotus flower, symbolizing purity, and beauty.

Kali – Goddess of Time and Death

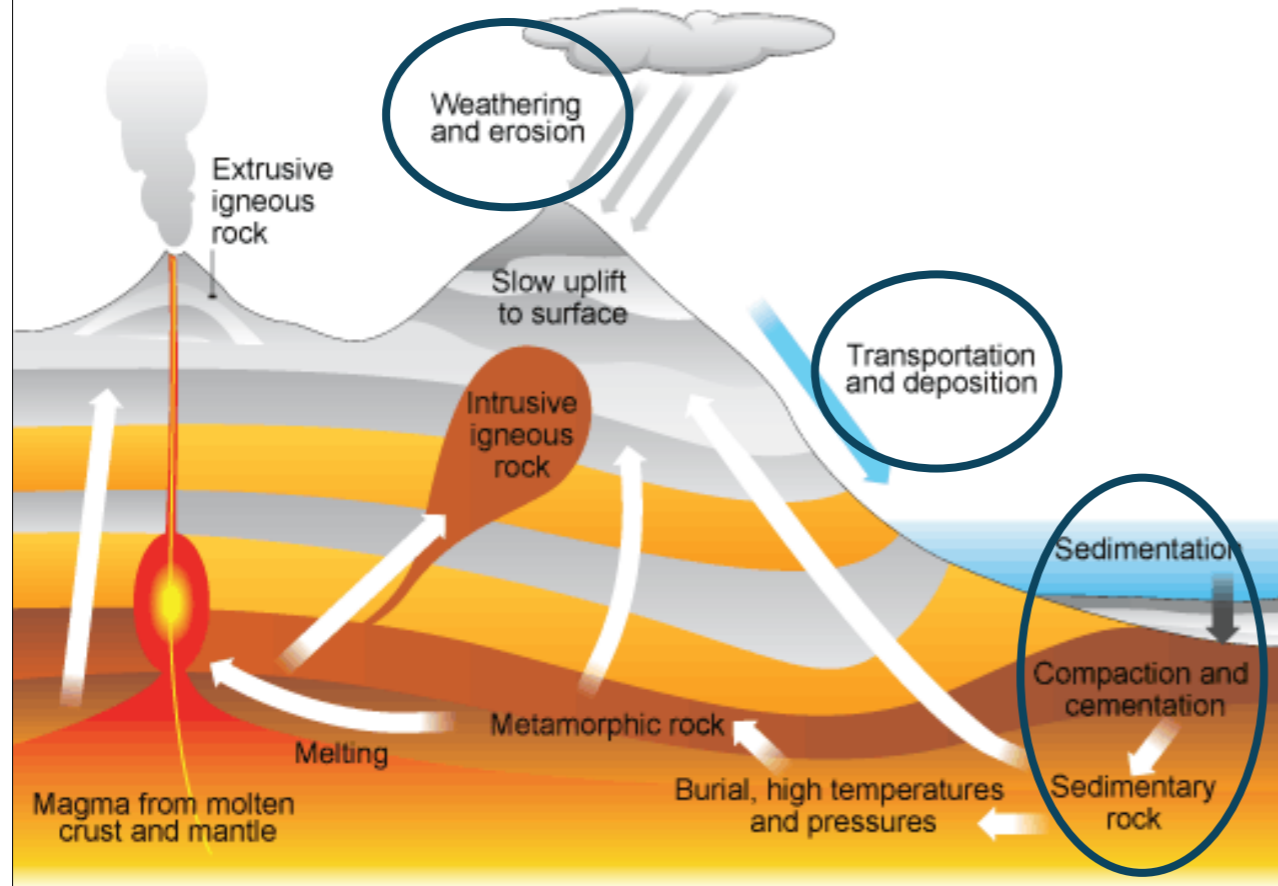
Role and Importance: Kali is the Goddess of Time and Death. She represents the end of things and the power of time. Kali helps Hindus understand that everything has an end, and that death is a natural part of life. **Example:** Kali is often shown with a fierce appearance, symbolizing her power to destroy evil and protect the good.

All Hindu stories have deep meaning behind them. They relate to both the physical and spiritual world teaching Hindus lessons about both.



Science - Chemistry

Week 1 Sedimentary rock formation:



Weathering and erosion – bits of rock are broken off. This can be through chemical, physical or biological weathering.

Transportation and deposition – small parts of rocks (sediment) are transported away and deposited into the ocean

Sedimentation – sediment settles to the bottom of the ocean

Compaction and cementation – over many years the sediment gets compacted under the high pressure.

Transportation
Deposition
Sedimentation
Fossil

Fossils as the 'remains of once living animals or plants.' They are found in sedimentary rocks

Two main types of fossil:

Body fossil - fossilised remains of a plant or animal e.g. a bones, shell, leaves.

Trace fossil - record an activity of an animal e.g. footprints, trackways, coprolites.

Science - Chemistry

Body fossils show us what a plant or animal looked like. They are the fossilised remains of an animal or plant, like bones, shells and leaves.



The fossilised dinosaur skeletons and big bones we see, petrified wood and whole body fossils (mammoths caught in ice or insects trapped in amber) are all body fossils.

Fossils can give information about how long ago a plant/animal lived.
Fossil records can show how an organism has evolved over time
The fossil record is not complete!

People who study fossils are called palaeontologists.

Trace fossils record the activity of an animal. These include footprints, trackways, and coprolites (fossil poo!).



Week 2 The three fossil fuels are crude oil, coal and natural gas.

Fossil fuels are non-renewable because they are being used quicker than they are being running out.

Crude oil formation: Formed from ancient dead animals and plants which have been buried in many years.

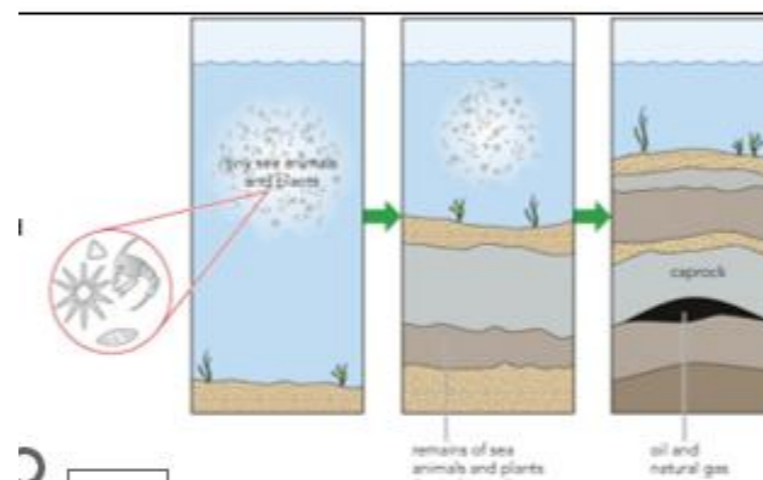
Uses of fossil fuels:

Crude oil can be used in cooking, to fuel cars, to fuel ships and even to make tarmac.

Energy is released when we burn fossil fuels (combustion)



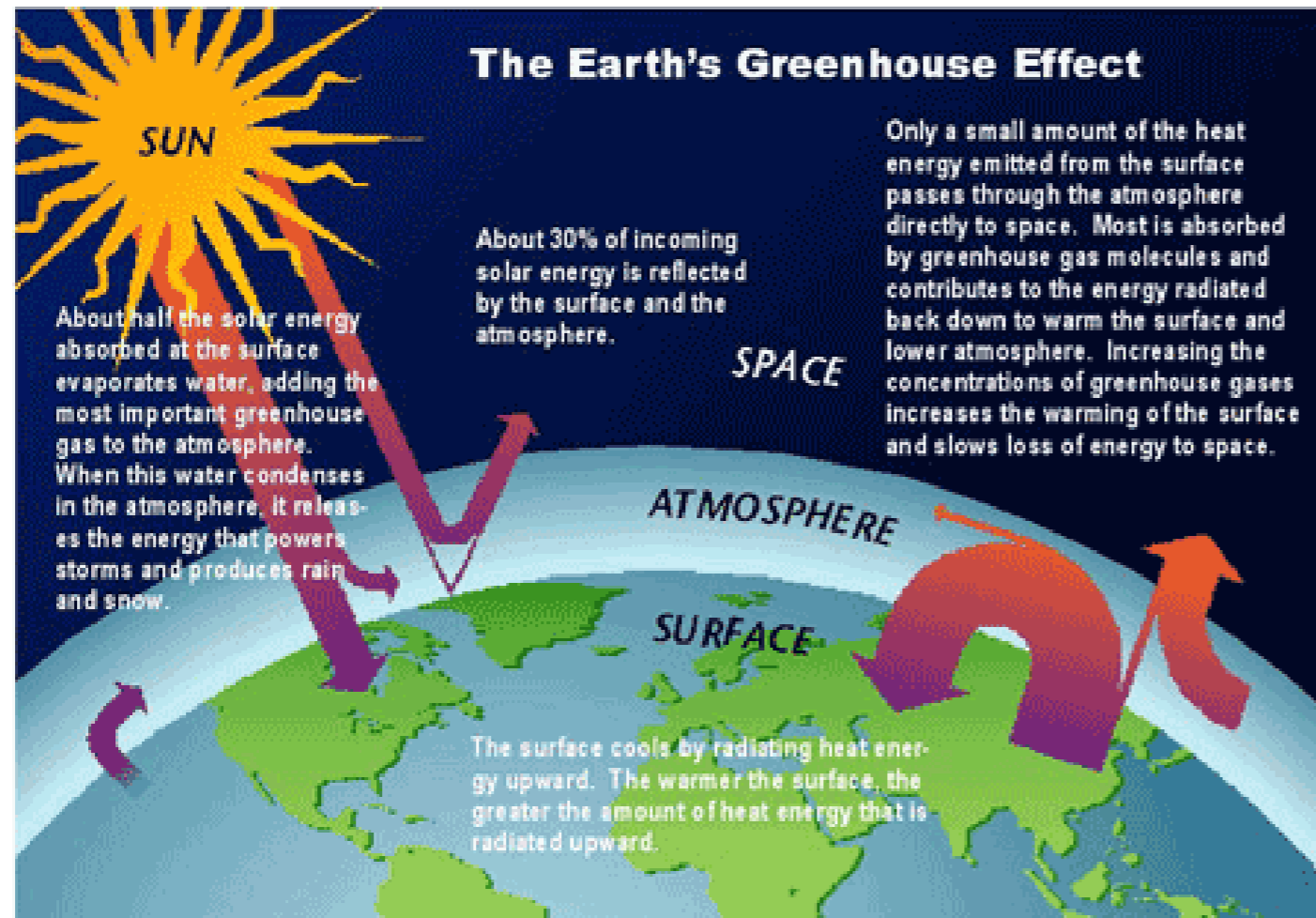
Problems with burning fossil fuels including the release of carbon dioxide (a greenhouse gas) that contributes to global warming.



replaced. This means they are sediment and compressed over

Crude oil
Fuel
Energy
Global Warming

Science - Chemistry



Burning fossil fuels also produces acid rain. This causes lakes and soil to become more acidic. Crops can fail to grow and aquatic organisms can die.

Global warming can lead to ice caps melting, sea levels rising, more extreme weather, loss of land and habitats.

Week 3 Finite resources are substances that can only be used once and are in limited supply. e.g. oil, metals, rocks

There are a number of reasons why recycling is so important:

At home we can recycle:

- Glass
- Metals
- Paper
- Card
- Plastic



Finite = Can only be used once and is in limited supply

Infinite = Can be used more than once or is in unlimited supply

Sustainable = Able to be maintained at a certain rate or level

Renewable = Will not run out in the foreseeable future

Finite
Infinite
Renewable
Non-renewable
Recycling

Science - Chemistry

Recycling methods:

| Resource | How? | Advantages | Disadvantages |
|----------|--|--|--|
| Glass | It can be melted, remoulded and reused | The energy needed to do this is less than the energy needed to make new glass from raw materials | Need to sort different coloured glass ready for recycling and transport to the plant. |
| Metal | It can be melted, remoulded and reused | The energy needed to do this is less than the energy needed to extract new metal from ores | Melting down metals uses energy, producing pollution |
| Paper | It can be broken up into small pieces and reformed to make new sheets of paper | This takes less energy than making new paper from trees. Less need to cut down trees | Paper can only be recycled a few times before its fibres become too short to be useful |
| Plastic | It can be melted, remoulded and reused | We use less crude oil and recycling prevents plastic ending up in landfill sites | Different types of plastics have to be sorted |



Week 4 The atmosphere is the layer of gas which surrounds a Planet!
The layers of the atmosphere to include:

- Troposphere
- Stratosphere
- Mesosphere
- Thermosphere
- Ionosphere
- Exosphere

Ionosphere isn't always included in diagrams because it overlaps with many layers.



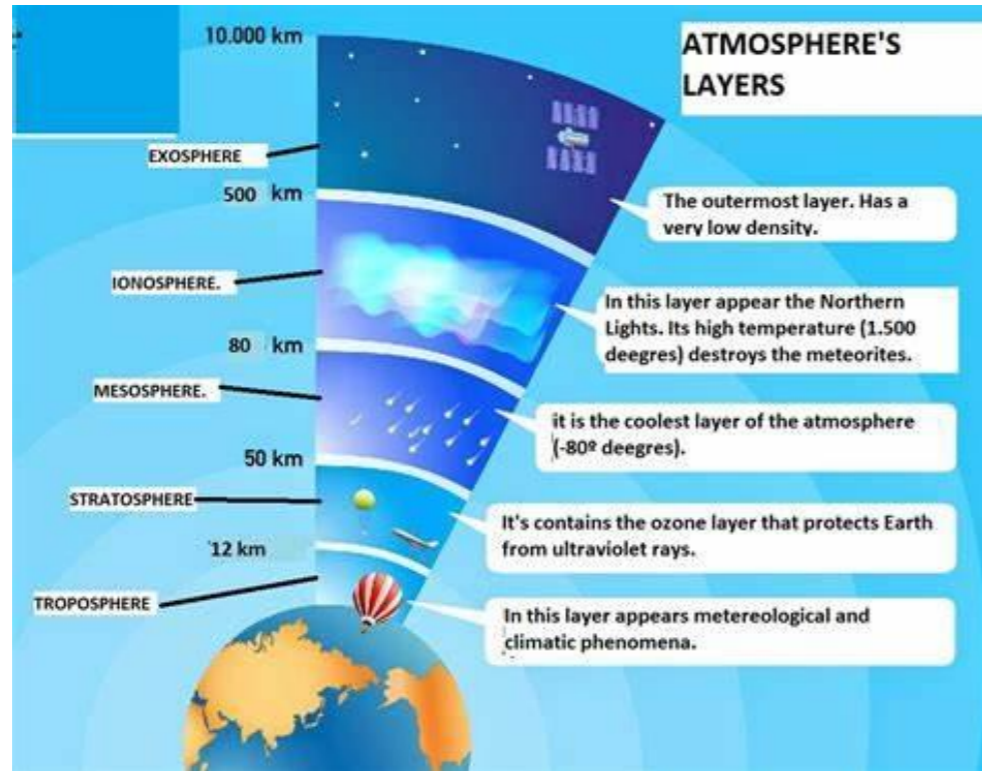
The troposphere is the first layer!
(The layer we live in)

The air in the troposphere consists of...

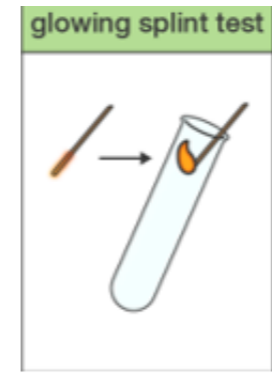
- 78% Nitrogen
- 21% Oxygen
- 1% Argon
- 0.04% Carbon dioxide

Troposphere
Mesosphere
Ionosphere
Exosphere
Atmosphere
Composition

Science - Chemistry

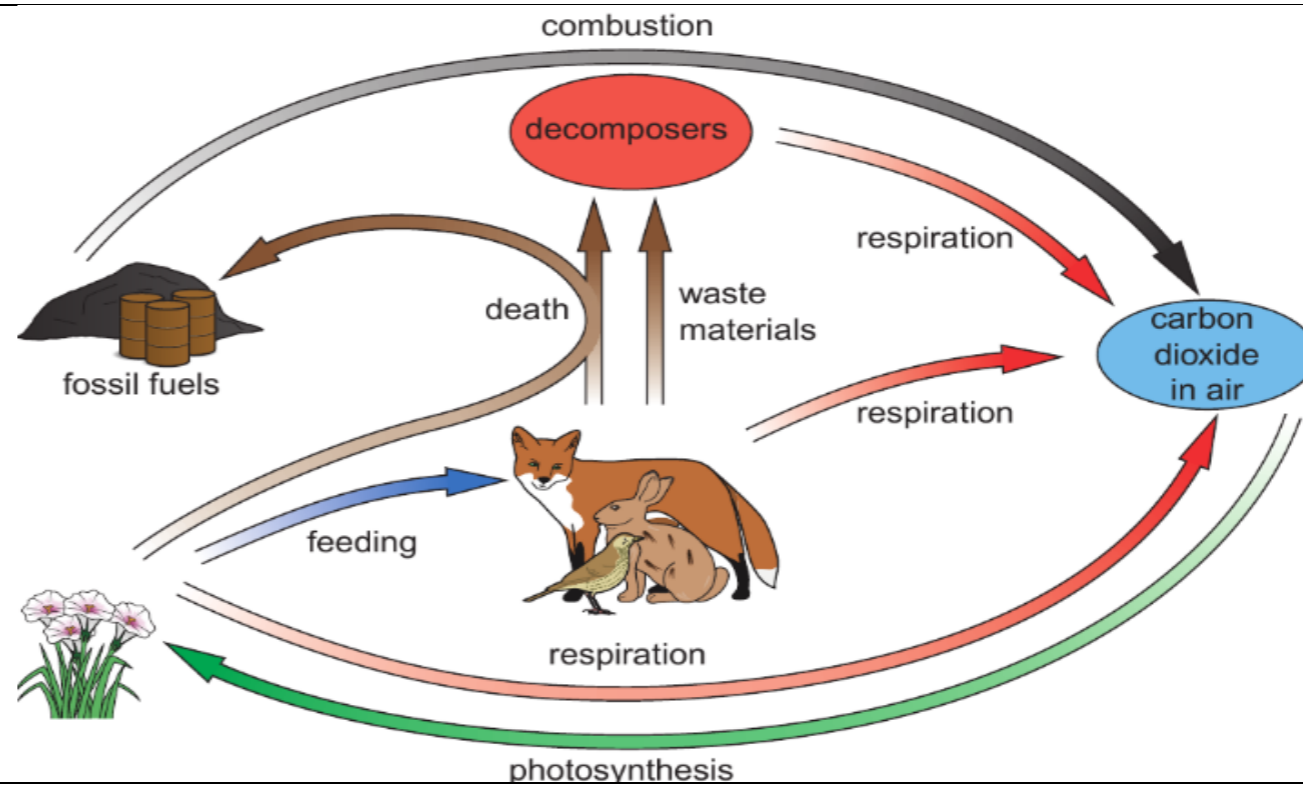


Test for oxygen gas:
Place a glowing splint over the gas. If it relights the splint it is oxygen!









Week 5 The carbon cycle involves the following processes:

- Photosynthesis - a chemical reaction uses carbon dioxide from the atmosphere.
- Combustion - a chemical reaction which reacts carbon (in fuels) with oxygen and releases it as carbon dioxide into the atmosphere.
- Respiration - a chemical reaction which releases carbon dioxide into the atmosphere
- Decomposition – when an organism is broken down by microorganisms
- Feeding – when one organism eats another
- Fossilisation – turning into a fossil over thousands of years.



Photosynthesis
Respiration
Decomposition
Decomposers
Carbon Cycle
Interactions

Science - Chemistry

| | | |
|---------------|--|--|
| Week 6 | <ul style="list-style-type: none">• Composite materials are made from 2 different types of materials.• They are different in their chemical or physical properties and are merged to create a new type of material.• Examples of composite materials: <div data-bbox="409 359 596 611"></div> <p data-bbox="391 632 507 695">Plywood flooring</p> <div data-bbox="655 380 937 569"></div> <p data-bbox="706 632 872 663">Metal roofing</p> <div data-bbox="1032 348 1205 564"></div> <p data-bbox="1041 611 1199 674">MDF kitchen cabinets</p> <div data-bbox="1264 338 1448 583"></div> <p data-bbox="1294 604 1418 695">Concrete bathroom floor</p> <div data-bbox="1501 390 1789 583"></div> <p data-bbox="1567 632 1733 663">PVC windows</p> <div data-bbox="1843 432 2086 632"></div> <p data-bbox="1863 653 2050 684">Polythene bags</p> <p data-bbox="299 716 973 747">How do we choose which materials to use for different jobs?</p> <ul style="list-style-type: none">• Abundance of raw material• Extraction method and cost• Physical properties• Manufacturing cost and energy• Environmental impact including carbon footprint. <p data-bbox="299 947 1472 978">We have to look at the whole life cycle of a product to know if it is sustainable for use. This might include:</p> <ul style="list-style-type: none">• How raw materials are extracted• How different materials work together• How materials can be disposed effectively | Composite Material Life-cycle Raw materials |
|---------------|--|--|