

Knowledge Organiser Year 7 – Autumn Term 1



Name:

P&A group:

Knowledge Assessment: Thursday 26th October 2023 - Period 1

Vision

Minsthorpe Community College: A place where everyone plays a part in strengthening our learning community through **motivation**, **commitment** and **care**.



Motivation • Commitment • Care



Look

Look at the information carefully. Read it three times.

It may help to say it as you read it.



Cover

Cover it with your hand or a piece of paper.





Write

Write it out from memory.



Check

Check what you have written matches the information exactly.

Have you got it correct?

If so, tick your work to show it is correct.



Correct

If it doesn't match exactly, use a different coloured pen to correct it. Repeat.

When you get it 100% correct, move on to the **next** piece of information.

English

KPOW: How do writers construct narratives? Week 3: Woman in Black and Foreshadowing

Year 7: Autumn Term 1

Week 2: Gothic Conventions

Key word definitions

Narrative: a spoken or written account of connected events; a story.

Genre: the type of text or the family of texts it belongs to. **Convention**: i) a way of behaving considered to be correct or polite in society ii) a traditional style or tradition associated with a text type.

Key learning points

The main gothic conventions are:

- secluded setting
- mystery and suspense
- supernatural
- omens/ visions
- women in distress
- overwrought emotion
- imagery associated with horror.

Kev word definitions

Stigma: a mark of disgrace associated with a particular circumstance, quality or person.

Patriarchal: A system of society in which men typically hold all of the power and women are excluded from it.

Foreshadowing: is a literary device in which a writer gives an advance hint of what is to come later in the story.

Key learning points: Edwardian Context:

- Highly patriarchal society women denied rights and the vote.
- Pregnancy out of wedlock viewed as sinful and shameful.
- Rigid class divides.

Key Skills:

- PIN: 'Pin down' your quotation where does it come from / what has happened before it is said / why says it etc.
- QU: Always use quotations or evidence from the text to support your ideas. You should always include "..." quotation marks.
- Ex: Give reasons for your ideas. Think about using phrases like "because" and "as" to help you.
- T: Name specific methods with terminology.

Week 4: Pathetic Fallacy and Foreboding

Key word definitions

Allusion: an expression designed to call something to mind without mentioning it explicitly; an indirect or passing reference e.g. to the Bible or mythology.

Ominous: (adjective) giving the worrying impression that something bad is going to happen.

Pathetic Fallacy: The weather and season can be described with human emotions to reflect the mood of a character or create a tone. **Foreboding:** a feeling that something bad will happen-fearful

apprehension.

Key learning points: Cultural Awareness:

- *Inferno* (Italian for "Hell") is the first part of Italian writer Dante Alighieri's 14th-century epic poem Divine Comedy. In the poem, Hell is depicted as nine concentric circles of torment located within the Earth.
- Sir Bedivere-From Arthurian legend- a strong and trusted warrior. On his deathbed, King Arthur handed over Excalibur to him, his most trusted and strongest warrior, to throw into the lake. Sir Bedivere was the only one left standing.

Key Skills:

Z: Zoom into language- important words, phrases or devices.

Week 5: Contrast and Language Choices

Key word definitions

Superiority: (noun) the state or fact of being better, more important, or higher in rank than others.

Contrast: (noun) the state of being strikingly different from something else in juxtaposition of close association.

Spectre: (noun) i) a ghost ii) something widely feared as a possible unpleasant or dangerous occurrence. (e.g. a threat, a menace, a vision).

Key Learning Points:

Word Class: Adjective-can be used before a noun, to make the noun's meaning more specific.

Verbs: are sometimes called 'doing words' because many verbs name an action that someone does. Many verbs name states or feelings rather than actions.

Similes: a figure of speech involving the comparison of one thing with another thing of a different kind, used to make a description more emphatic or vivid (e.g. as brave as a lion).

Cultural Awareness:

allusions to "the raven" in literature, because of its black plumage, croaking call, and diet of carrion, the raven is often associated with loss and ill omen.

Edwardian Context: those in the cosmopolitan regions such as London, often looked down on people from the country, believing them to be less sophisticated.

Week 6: Practice Assessment

Key word definitions

Reverie (noun): a state of being pleasantly lost in one's thoughts; a daydream.

Malevolence: (noun) the state of having or showing a wish for evil to others.

Paralysed: (adj) part or wholly incapable of movement.

Key Learning Points:

Cultural Allusion: Miss Havisham is a character in the Charles Dickens novel Great Expectations (1861). She is a wealthy spinster, once jilted at the altar, who insists on wearing her wedding dress for the rest of her life.

Nouns: are sometimes called 'naming words' because they name people, places and 'things.'

Abstract noun: a noun denoting an idea, quality, or state rather than a concrete object, e.g. truth, danger, happiness.

Adverb: They can modify a verb, an adjective, another adverb or even a whole clause.

Key Skill: CF - Clearly focus on answering the question with an idea.

Weeks 7 and 8: Reading Assessment Preparation

Key word definitions:

Impenetrable- (adjective): impossible to pass through or enter/ Impossible to understand.

Trauma- (noun) a deeply distressing or disturbing experience. In medicine (physical injury).

Key Learning Points:

- Review and consolidation of all writer's methods used so far
- Revision of key skills in preparation for Reading Assessment.

Maths

Week 2: Place Value

Key representations

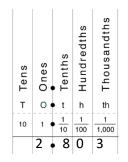
| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 4 | 7 | 3 | 2 |

This number represents the number four thousand, seven hundred and thirty-two.

In digits this is 4 732.

Decimals

This decimal place value chart is representing the number two point eight tenths and 3 thousandths.



Multiplying and dividing by 10 and 100

Use a place value table to multiply and divide by multiples of 10. When multiplying or dividing by ten the digits will move one place and when multiplying or dividing by 100 the digits will move two places.

For example, $50.6 \times 10 = 506$

| 100s | 10s | 1s | Tenths |
|------|-----|-----|--------|
| | 5 | 0 | 6 |
| 5 🖍 | 0 * | 6 1 | |

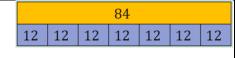
 $470 \div 100 = 4.7$

| 100s | 10s | 1s | Tenths | Hundredths | Thousandths |
|------|-----|----|--------|------------|-------------|
| 4 | 7 | 0 | 8 | | |
| | | 4 | 7 | • 0 | ▶ 8 |

KPOW: Number system

Week 3: Properties of arithmetic

Fact families
Here is a fact
family, using the



bar model for $7 \times 12 = 84$

$$12 \times 7 = 84$$
 $84 \div 12 = 7$ $7 \times 12 = 84$ $84 \div 7 = 12$

Commutativity

Commutativity is where a different order of the calculation gives the same answer.

| Examples | Non examples |
|---|---|
| $3 \times 5 = 5 \times 3$ 3 5 $5 + 3 = 3 + 5$ | $15 \div 3 \neq 3 \div 15$ $5 - 3 \neq 3 - 5$ |

Associativity

When adding and multiplying numbers you can change the grouping of the numbers in the problem and it will have no effect on the answer. For example:

$$36 \times 5 = 180$$

$$4 \times 9 \times 5 = 180$$

Distributivity

When multiplying an addition by a number it will give the same result as multiplying each number individually then adding the products together.

$$8 \times 14 = 8 \times (10 + 4)$$

$$= 8 \times 10 + 8 \times 4$$

$$= 80 + 32$$

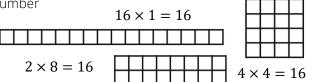
$$= 112$$

Year 7: Autumn Term 1

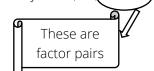
Week 4: Factors and multiples

Factors

Factors are numbers we can multiply to get the target number



There are 5 factors of 16. They are: 1, 16, 2, 8 and 4. There are 4 factors of 10. They are: 1, 10 2 and 5.



Prime numbers

Prime numbers have exactly 2 factors. The first ten prime numbers are:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, ...

1 is not prime because it has only one factor

Square numbers

A square number is the result of multiplying a number by **itself**.



 $5^2 = 5 \times 5 = 25$

The first ten square numbers are: 1, 4, 9, 16, 25, 36, 49, 81, 100, ...

Week 5: Factors and Multiples

Common factors

The factors of 15 are: **1**, 15, 3 and **5**.

The factors of 40 are: 1, 40, 2, 20, 4, 10, 5 and 8.

The common factors of 15 and 40 are the numbers that are in both lists. They are: 1 and 5.

The highest common factor (HCF) of 15 and 40 is 5.

Multiples

Multiples are lots of a number.

For example, the first five multiples of 3 are:

3, 6, 9, 12, 15,

Common multiples

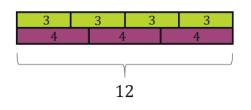
The first five multiples of 3 are: 3, 6, 9, **12**, 15, ...

The first five multiples of 4 are: 4, 8, **12**, 16, 20, ...

The common multiples will appear in both lists.

For example, the common multiples of 4 and 3 shown here is **12**.

The lowest common multiple (LCM) of 3 and 4 is 12.



Week 6: Formal Methods

When using a formal method always use a **column method** for addition, subtraction and multiplication.

Always start from the **right**

Addition

| | 100s | 10s | 1 s |
|---|------|-----|------------|
| | | 4 | 6 |
| + | | 7 | 6 |
| | | | 2 |
| | | 1 | |

The ten goes in the ten's column.

6 + 6 = 12

10s 7 g⁄

5

2

$$4 + 7 = 11$$

Remember to add the extra ten.

86 - 59 = **27**

100s

| 7 | | | |
|---|--|--|--|

1 6

9

| | 6 | _ 9 |
|--|---|-----|

Subtraction

requires an **exchange** with the tens column to become 16 – 9 = 7

Multiplication $316 \times 25 = 7900$

316

Weeks 7 and 8: Order of Operations

Division

To divide use the **bus stop method**.

The number on top is how many 5s go into the 4.

4 is less than 5 so 4 is the **remainder**. It carries to the ten's column.

The next number is how many 5s go into 46 with 1 as a remainder. Which leaves 15 into 5 goes 3 times.

Order of operations

The diagram tells us the order operations must be completed in. Multiplication and division have the same priority, so these can be completed in any order. Addition and subtraction also have the same priority.

B Brackets
I Indices
D M Division and multiplication
A S Addition and subtraction

Key examples

$$3 + 5 \times 8 =$$
 $(2 \times 3) - (5 \times 8) =$ $3 + 40 = 43$ $6 - 40 = -36$ $(3 + 5) \times 8 =$ $5 + 6^2 \div 9 =$ $5 + 36 \div 9 =$ $5 + 4 = 9$

Science: Biology

Week 2: Animal & Plant Cells

Keyword definitions

All cells contain these organelles;

Cytoplasm: It fills the cell and most chemical reactions

take place here.

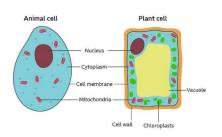
Cell membrane: Controls movement of substances in

and out of the cell.

Nucleus: Contains the DNA and controls the cell.

Ribosomes: Synthesise (make) proteins.

Mitochondria: Release energy.



Plant cells also contain a vacuole and cell wall for structure and chloroplasts so that they can carry out photosynthesis.

KPOW: Cells, Tissues and Organs

Week 3: Specialised Cells

Keyword definitions

Specialised cells – Cells that have special features to make them good a particular function (job).

Muscle cells: Contract to cause movement.

Red blood cell: Contain haemoglobin to carry oxygen.

White blood cell: Destroy harmful microbes. Neurones: (nerve cells) Carry electrical impulses.



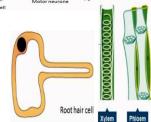
Root hair cell: Absorb

nutrients and water from soil. **Xylem**: Carry water up the

plant.

Phloem: Move sugars around

the plant.



Year 7: Autumn Term 1

Week 4: The Digestive System

Key word definitions

Cell: The basic subunit (building block) of living things.

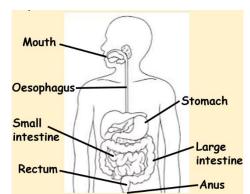
Tissue: Similar cells grouped together. **Organ**: Similar tissues grouped together.

 $\label{eq:constraint} \textbf{Organ system:} \ \mathsf{Different} \ \mathsf{organs} \ \mathsf{that} \ \mathsf{work} \ \mathsf{together} \ \mathsf{and}$

have a shared function.

The Digestive system

contains all the organs that allow you to break down and absorb nutrients from food



Week 5: Food Tests

Keyword definitions

Food tests – Chemical tests that allow us to identify certain nutrients in foods

| Nutrient | Test | Positive result |
|----------|-------------------|-----------------|
| Starch | Iodine | Turns black |
| Protein | Biuret reagent | Turns lilac. |
| Sugar | Benedicts reagent | Turns red, |

If the **positive result** is seen when these reagents are added to foods, this tells us that particular nutrient is present in the food.

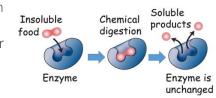
Benedicts reagent can turn different colours depending on the amount of sugar present.

Week 6: Enzymes & Healthy Diet

Keyword definitions

Enzymes – Proteins that speed up chemical reactions in our body.

The digestive system uses enzymes to help break down our food. Enzymes work using the lock and key mechanism.



Each enzyme only fits one type of nutrient.

| Enzyme | Breaks down | into |
|----------|-------------|---------------------------|
| Amylase | Starch | Sugars |
| Protease | Proteins | Amino acids |
| Lipase | Fats | Glycerol and fatty acids. |

Weeks 7 and 8: Diseases

We need <u>carbohydrates</u>, <u>fats</u>, <u>proteins</u>, <u>vitamins</u>, <u>minerals</u>, <u>fibre</u> and <u>water</u> in our diet to be healthy. **Deficiency diseases** are caused by a lack of certain nutrients in our diet, usually vitamins and minerals.

Scurvy is caused by a lack of vitamin C.

Rickets is caused by a lack of vitamin D.

Anaemia is caused by a lack of iron.

A **non-communicable disease** is one that cannot be passed on from person to person.

Deficiency diseases are examples of these along with diabetes, cancer, heart disease and cystic fibrosis.

A **risk factor** is something that makes you more likely to suffer from a non-communicable disease e.g. obesity (being severely overweight) is a risk factor for heart disease and diabetes.



Science: Chemistry

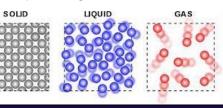
Week 2: Solids, Liquids and Gases

Key word definitions:

Solids: Particles are close together and vibrate about a fixed position.

Liquids: Particles are close together and move at random. **Gases**: Particles are far apart and move at random. **Key learning points**:

- All matter, in fact everything is made of particles.
- Particles behave differently in solids, liquids and gases.
- The particle model explains the differences between solids, liquids and gases.



KPOW: Matter and Substances

Week 3: Changes of State

Key word definitions:

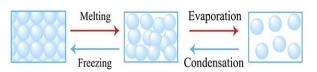
Freezing: A liquid turning into a solid.

Melting: A solid turning into a liquid.

Evaporating: A liquid turning into a gas.

Key learning points:

- Solids, liquids and gases change state when they are heated or cooled.
- Processes such as evaporation and boiling change the state of substances.
- A particle model can be used to show how solids, liquids and gases change state.



Year 7: Autumn Term 1

Week 4: Gas Pressure

Key word definitions:

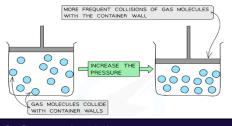
Volume: The amount of space something takes up. Measured in cm³.

Compression: The reduction of the volume causes an increase in pressure.

Diffusion: Particles moving from a high concentration to a low concentration.

Key learning points:

• Gas pressure is increased when the temperature increases or the volume of the container decreases.



Week 5: Solutions

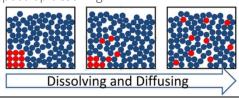
Key word definitions

Solute: A substance that dissolves in a liquid to form a solution.

Solvent: A liquid in which other substances dissolve. **Solution**: A mixture formed when a solute dissolves in a solvent.

Key learning points

- A solution is made when a solute dissolves into a solvent.
- If a substance can dissolve into a solvent, it is soluble.
 If it cannot dissolve, it is described as insoluble.
- Heating, stirring and using fine powders are all ways to speed up dissolving.



Week 6: Pure and Impure Substances

Key word definitions

Pure: A substance is pure if no other substances are mixed with it.

Mixture: A lot of different chemicals jumbled up together but not chemically joined.

Key learning points

- Most materials that we use are mixtures, and just a few are pure elements or pure compounds.
- In chemistry, a pure substance is a single substance made of only one type of particle.
- Impurities change the temperature at which a substance melts and boils.







Weeks 7 and 8: Separating Mixtures

Key word definitions

Dissolving: The process of a solid mixing evenly into a liquid forming a solution.

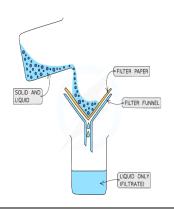
Filtering: Separating things that have not dissolved from a liquid.

Evaporating: Removing a liquid by heating.

Key learning points:

Substances can be separated using different methods that include:

- Dissolving
- Filtration
- Evaporation
- Crystallisation



| French F | (POW: Je me présent | е | Year 7: Autumn Terr | n 1 |
|---|-----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| Week 2: Greetings | Week 3: Introduction | าร | Week 4: Pencil Case Items | ; |
| Bonjour [Hello] | Comment t'appelles-tu? | [What are you called?] | Dans mon sac [in my bag] | |
| | Je m'appelle [l'm d | called] | un agenda [a planner] | |
| Salut [Hi / Bye] | | | un cahier [an exercise book |] |
| | Ça va? [How are you?] | | un crayon [a pencil] | |
| Coucou [Hi / Hey] | Quoi de neuf? [What's | up?] | un dictionnaire [a dictional | ry] |
| | | | un feutre [a felt tip pen] | |
| Au revoir [Goodbye] | Ça va bien merci [l'm g | good/well thanks] | un livre [a book] | |
| | Non ça ne va pas [No l | 'm not good] | un stylo [a pen] | |
| À plus [tard] [See you later] | Oui pas trop mal [Yes r | not too bad] | un taille-crayon [a pencil sh | narpener] |
| | Bof! [Ok] | | un tube de colle [a gluestic | k] |
| À bientôt [See you soon] | | | une calculatrice [a calculat | or] |
| | Et toi? [And you?] | | une gomme [a rubber] | |
| À tout à l'heure [See you later] | | | une règle [a ruler] | |
| | | | une trousse [a pencil case] | |
| | | | des ciseaux [some scissors] | 1 |
| Week 5: Key Verbs and Connectives | Week 6: Numbers a | nd Ages | Weeks 7 and 8: Months, B | irthdays and Revision |
| J'ai [l have] | un [1] | deux [2] | Once you have learnt the mor | nths and birthday sentences |
| Je <u>n'</u> ai <u>pas de/d'</u> [l don't have] | trois [3] | quatre [4] | below, revise everything from | weeks 1-5. |
| J'ai besoin de/d' [l need] | cinq [5] | six [6] | | |
| Je <u>n'</u> ai <u>pas</u> besoin <u>de/d'</u> [I don't need] | sept [7] | huit [8] | janvier [January] | - - |
| | neuf [9] | dix [10] | mars [March] | avril [April] |
| Je m'appelle [I am called] | onze [11] | douze [12] | mai [Mai] | juin [June] |
| Mon frère s'appelle [my brother is called | | quatorze [14] | juillet [July] | |
| Ma sœur s'appelle [my sister is called] | _ · | seize [16] | septembre [September] | |
| Mon maillour ami c'annolle | dix-sept [17] | dix-huit [18] | novembre [November] | décembre [December] |
| Mon meilleur ami s'appelle [my best male friend is called] | dix-neuf [19] vingt-et un [21] | vingt [20] vingt-deux [22] | Mon anniversaire est le | |
| Ma meilleure amie s'appelle [my best femal | _ | vingt-quatre [24] | [My birthday is the] | |
| friend is called] | trente [30] | trente-et un [31] | Son anniversaire est le | |
| | a. a. 160 [0 0] | | [His/her birthday is the] | |
| et [and] | J'ai ans [l am | years old] | | |
| mais [but] | Il a ans [He is | | premier [1st] | |
| | Elle a ans [She is | | | |

Minsthorpe Community College

KPOW: An introduction to the UK. Year 7: Autumn Term 1 Geography Week 2: Our island home. Week 3: Land's End to John o' Groats. Week 4: The UK in Europe The UK is located mainly between 50 and 60 degrees There are many ways to describe where we live. We The Land's End to John o' Groats route stretches the often use the British Isles, the UK and Great Britain, whole length of the British Isles, starting in the south-North. some even just say England. The UK includes Scotland, west of Cornwall and ending in the north-east corner of England, Wales and Northern Island. The British Isles Scotland. The UK has many links with Europe including for food, includes the whole of the UK plus the Republic of Many people choose to either walk, cycle or run the to gain energy and for tourism. The most popular Ireland. However, Great Britain just includes Scotland, 1407 km challenge, raising money for charity. destination for UK holiday makers is Spain (10 million England and Wales. It can get a little muddled. per year). The route travels through a variety of diverse rural and One thing we need to be clear on is that England is urban landscapes, including four national parks; Cheap flights in the past have led to the increase in only a small part of the UK. Dartmoor, the Lake District, Loch Lomond and the travel to European countries. Cairngorms. These spectacular landscapes attract tourists who enjoy outdoor activities such as walking, The UK's links with Europe are vital for us to maintain our quality of life. Without these links our lives would climbing and water sports. be very different. Week 6: The UK through Ordnance Survey maps Weeks 7 and 8: Key Piece of work (KPOW) Week 5: Our local environment Maps come in lots of varieties and can be used by lots In your KPOW, you will be asked about a range of Our local environment is a small area that surrounds us. It consists of human and physical features. of groups of people. With maps we need to know: things from the topic you have covered in class. You Fieldwork is when you go outside the classroom and The 8 points of the compass (see picture) need to learn the following key words: find things out for yourself. That OS maps show an area in lots of detail OS maps use grid lines and symbols to help find Keywords: This lesson is very skilled based. In the lesson we will places easier L1: Scale – the size of an area represented on a map. carry out data collection techniques. This is what we • 4 figure grid references make finding a specific L2: Diversity – lots/ a variety of. L3: Latitude – distance north or south of the equator. do to collect the information we need. Secondly, we place on a map easier will carry out data presentation techniques. This is • The rule for 4 figure grid references is along the 14. Local environment – a small area such as a when we return to the classroom and graph or map corridor and then up the stairs housing estate or park. our information. We will then practice our evaluation L5: Grid references – used to find a location on an OS skills to see what went well about the fieldwork and map. what we could improve if we did it again.

History

KPOW: What impact did settlers have on the England?

Year 7: Autumn Term 1

Week 2: Who were the early settlers?

The British Isles = the islands that make up what most people call Britain today.

Most evidence comes from artefacts.

People originally arrived from Europe via a land bridge 8500BC - the climate warms, the water

rises and the land bridge disappears and Britain became an island.

More settlers arrived by boat.

The Bronze Age: 2500BC - new

settlers arrived who could make tools from bronze.



The Iron Age: 800BC – people learned how to make tools from iron. **Artefact** = an object made by a human being, often used to find out about the past.

Week 3: What impact did settlers have on Britain?

Celts: Arrived from central Europe. Farmed, built forts and held yearly assemblies to settle disputes.

Romans: Arrived from Italy, invaded Britain in AD43. Many Roman towns are still important today such as York and Lincoln.

Anglo Saxons: Came from modern day Denmark and Germany. They gave England its name – Angle Land. Vikings: Arrived from Scandinavia. After years of fighting, they made an agreement to split England into two. Saxons in the south and Vikings in the north.







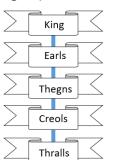
Week 4: How was Anglo Saxon England ruled?

In 1042, Anglo Saxon was peacefully united under one King – Edward the Confessor.

He was helped by a group of advisors called the Witan. Society was split into groups:

Earls = heads of important families.

Thegns (pronounced thane) = Local landowners.



Ceorls (pronounced churl) = Ordinary villagers.

Thralls = Slaves, prisoners captured during war, law breakers and people unable to pay off debts.

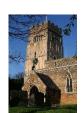
Week 5: Why was England attractive to invaders?

Coins: Produced their own coins to make trading easier.

Crafts: Were highly skilled craft workers making tools, pots, jewellery, musical instruments

and even board games.

Writing: Some educated Saxons communicated with the rest of Europe using letters.



Buildings: Wooden buildings were gradually replaced by reusing the stone from Roman buildings.

Goods: The Saxons had many valuable goods to trade such as tin, wool, honey, copper, wheat and salt.

Week 6: KPOW

Inhabitants = a person or animal who occupies a place. **Settlers** = people who move from one area to another and stay.

Earl = The heads of important families who helped the king to rule.

Natural resources = materials from the earth used to support life and people's needs.

Trade = Buying and selling goods and services. **Craft workers =** Highly skilled workers who can make things.



Explain = give reasons. **Impact** = influence or effect.

Weeks 7 and 8: Claimants to the throne

Edward the Confessor: Dies in January 1066 leaving no heir.

Harald Hardrada:

Viking. His ancestor Canute had been King of England 1016-1035. Parts of the north still supported the Vikings.

Harold Godwinson:

English. Claimed Edward had promised him the throne. He was an important Earl with a lot of support in England.

William Duke of Normandy:

Norman. Claimed Edward had promised him the throne. Said that Harold Godwinson had promised to support him.





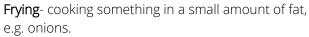
Technology: Food

Week 2 & Week 3

Key terms in cooking:

Simmering- cooking a product then reducing the heat to low, e.g. curry.

Boiling- cooking a product in bubbling water, e.g. pasta.



Chopping- using a knife to cut a product into small chunks, e.g. peppers.

Peeling- taking the skin off a product, e.g. apple. **Knife safety**

Bridge method- when the hand is curled and shaped like a bridge for knife to go under- rounded products, like apple, strawberries, and onion.

Claw method- when a product is gripped by the fingertips in a claw shape and the fingertips are pulled back for safety before cutting- long products such as cucumber and leeks.

Practical planning

You will plan to make fruit kebabs that will be garnished by using the bridge and claw method.

Simple method

- 1. Wash and chop fruit into even pieces.
- 2. Slide onto skewer through the centre.
- 3. Melt chocolate in 30 second bursts in the microwave and drizzle over.
- 4. Present on a plate.

KPOW: Healthy Eating

Week 4 & Week 5

Practical Planning

You will make a hot sandwich by showcasing skills in knife safety, time management, using a sequence of work and health and safety as well as using a hob and managing pan handles safely to the side.

Simple method

- 1. Put pan on heat and add a small amount of oil.
- 2. Add bacon or sausage and cook until crispy and brown.
- 3. While meat is cooking buter bread & place on serving plate.
- 4. Add cooked bacon/sausage to bottom slice of bread and place another slice on top.
- 5. Add sauce and cut in half.
- 6. Present and enjoy!

Nutrients and Eatwell

| Nutrient | Function | Where from? |
|--|---------------------------------|--|
| Carbohydrate Fast release- sugars Slow release- starches | Gives us energy | Starches- cereal, potatoes, pasta, rice Sugars- white sugar, sweets, honey |
| Fat Saturated- bad Unsaturated- good | Keeps us warm and insulated | Processed meat- meatballs, burgers, fried food-chips, junk food-biscuits, cakes Avocado, coconut, plant oils, olives, nuts |
| Vitamins and Minerals | Prevent illness | Any fruit, vegetable or salad item |
| Protein | Helps bodies to grow and repair | Lean meat- chicken, steak, fish, eggs, milk |
| Fibre | Helps our digestion | Brown bread, brown rice, brown pasta ie wholewheat items- cereals such as Weetabix, bran flakes |

Year 7: Autumn Term 1

Week 6 & Week 7 & Week 8

Practical Planning

You will plan to make Spaghetti Bolognese, this will showcase you using a hob as well as following a plan of making, using time management, and following health and safety rules.



Half of the group will make Spaghetti Bolognese and the other half will be the sous chef (helper).

Simple method

- 1. Put water in a saucepan up-to the half-way mark and get onto boil.
- 2. Chop up onion and crush garlic- use bridge or claw method.
- 3. Fry off in a wok pan until soft.
- 4. Add mince and cook until brown.
- 5. Add tomatoes, herbs, spices and leave to simmer for 10 minutes.
- 6. Drain pasta and plate up pasta on the base and meat sauce on top.

Food provenance and seasonality

You will learn where food comes from and where in the world fruit and vegetables grow.

Food provenance- where food is grown raised or reared.

Seasonality- when food is harvested and grown at specific times of the year, e.g., strawberries in the UK in June/July.

Technology: Product Design

Week 2 & Week 3

Use the Landscape strategy to create 3 designs for your wooden key ring. This strategy helps you understand how a piece of acrylic can be inlayed (stuck) between two pieces of wood. These designs are to be colour rendered (to look realistic), with the inlayed acrylic having a bright contrasting colour

Tools and machinery used to create the wooden keyring:

Tenon saw – for cutting straight lines

Band facer - for hard sanding

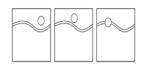
Sandpaper – for light sanding

Files – for chamfering (removing) the edges of the timber.

Pilar drill – to drill the key ring hole

Workshop Health and Safety.

- Googles must be worn on all workshop machinery.
- Long hair must be tied back on machinery.
- Aprons must be worn during all practical lessons.







Week 4 & Week 5

Iterative design process is where the designer will test the success of a product throughout, rather than just at the end.

This iterative process will help to produce a design for a wooden children's toy that is themed on transport.

Woods.

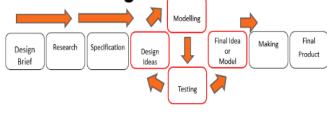
Natural wood comes from trees, synthetic wood is man-made.

Softwood grow faster than hardwoods, and therefore are less expensive.

Coniferous trees – Softwood – Scots pine, parana pine, spruce, cedar.

Deciduous trees (grows leaves that are lost in Autumn) - Hardwood – Beech, elm, ash, mahogany, oak.

The Design Process Iterative design



Evaluation happens during every stage

Year 7: Autumn Term 1

Week 6 & Week 7 & Week 8

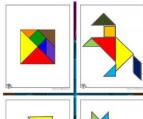
The tangram strategy helps you to create simple ideas using geometric shapes. Tangrams originated in China as a puzzle.

Designs produced are in grids of 7cm by 15cm. 15cm = 150mm 7cm = 70mm

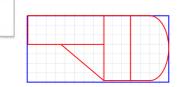
Man-made boards:

MDF (Medium density fibreboard), chipboard, hardboard, blockboard, plywood.

Man-made boards are made in factories and generally use the leftovers, such as sawdust and wood chippings. They are less expensive than natural wood but can be more stable.









Technology: Textiles

Week 2 & Week 3

Sketching - quick, initial ideas drawn in pencil.

Key Word: CULTURE - ideas, customs and social behaviour of a group/society.

Theme - British Culture

Cuisine - typical British food, fish & chips, English breakfast, cream

Iconic images - (iconic = Very famous/widely recognised) e.g. Houses

of Parliament, London Bus, Union Jack Flag.

Symbolism (use of symbols, in this case pictures, to represent ideas) – umbrella because that's what British businessmen carry because it rains a lot; a **crown** for the royal family; a **football** to show a love of sport.

Surface decoration techniques – how you can decorate fabric to enhance (improve) its appearance (how it looks).

Key Word: RESIST - coating/method applied to prevent dye being absorbed (soaked up) by the fabric.

Techniques:

Batik – is a resist method, the resist is the dried wax. Tool used is Tianting (see pic below).

Tie dye – is a resist method, the resist is the elastic band tied tightly around the material (see pic below).

Stencil – Is NOT a resist method. Cut shape out of card, that becomes your stencil which is a template (see pic below). Dabbing paste on using a sponge.

Theory: Fibres - Thin strands that are joined together to make a varn.

Key Word: FIBRES

Fibre: hair like structure. **Yarn:** lots of fibres twisted together. Woven: yarns placed over and under each other to create a fabric. Table showing **SOURCES** (where they come from) of fibres



KPOW: Design & Make a cushion cover

Week 4 & Week 5

Sewing machine introduction – threading a machine (top thread and bottom thread [spool]).

Key Word: DISRUPT - prevent a system or process from continuing as usual (DO NOT DISRUPT OTHERS).

The sewing machine & the skills to sew around to help develop control (directing the machine) and accuracy (precise and where the stitch should be).

Health and Safety:

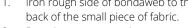


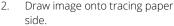
Surface decoration technique Applique

Key Word & Technique: APPLIQUE – stitching a small piece of fabric onto a larger piece to make a pattern or design.

Materials & Method: Bondaweb double sided fabric glue.

1. Iron rough side of bondaweb to the





Steps 3,4 & 5 see image below:

Theory: Fabric Construction methods Woven & Knitted – How yarn is made into fabric.

Key Word: CONSTRUCTION - The process of building something i.e. how it is made.

Knitted = Loops of yarn that interlock.



Properties: - the characteristics of either a fibre, yarn or fabric:

Properties of knitted Fabric - stretchy, doesn't fray, unravels if damaged, drops creases easily

Common knitted products - woolly hats, gloves, scarves, tights,

Properties of woven Fabric - strong, frays, creases easily, doesn't

Weft - thread that goes from left to right, right to left & over and under the warp thread.

Warp - threads that are vertical and which are set on the loom (machine you weave on).

Selvedge - the finished edge of the fabric that does not fray. Bias - is positioned diagonally across the fabric (at 45 degrees), so the fabric is stretchy and then hangs differently.

Year 7: Autumn Term 1 Week 6 & Week 7 & Week 8

Final Idea – a development of the cushion design which evolves from the sketches page ideas, selecting the most suitable images/ideas for each surface decoration technique (Batik, tie dye, stencil, applique).



Key word: SUITABLE – right or appropriate. Successful colour shading - even use of the pencil to get clear colouring in.



Tonal shading – to add deeper colour on parts of the design by pressing harder to add a more realistic finish.

Representing batik – double line

your design so it remains white, add colour either side of it (see image above).

Annotation of Final Idea - a note of explanation or comment added to a diagram / drawing.

Key Word: CONCISE – giving a lot of information clearly in a few words Areas to explain:

1. How images link to British Culture -

Reflecting – shows what it is like / Common – Found or done often / Iconic – famous or popular / Symbolises – to represent something / Monarchy – country with a king or queen / Popular - liked by many / Recognisable - capable of being identified / Represents - sign or symbol of something / National - of a country & its people / Famous - known and recognised by many / Historical - used to describe something from the past

2. The challenges are:

Curves / fiddly processes / difficult area of ... / complicated ... / complex process of ... / being able to ... / Symmetry of ... / ensuring the accuracy of ...

Theory: Fabric construction methods, Laminated and Bonded & Microfibres

Key words: COMPRESSED - flattened by pressure. **MICRO -**ancient Greek word meaning small.

Laminated Fabric (layers of fabric glued and bonded together).

Bonded Fabric (fibres that are compressed [PRESSURE PRESSED] together using heat, pressure and an adhesive [GLUE]).

Microfibre – less than 1 denier thick which is equivalent to 60/100 times finer than a human hair.

Look like: shaped like a star (snowflake or flower describes them too).

How they work: they trap dust and dirt in their grooves.

Made from: synthetic fibres, normally polyester or nylon.

Common products made from microfibre: sportswear, dusters, sports & dog towels and underwear.

Properties: ultra fine, Washable, high strength, comfortable, high absorption, breathable.





| Core PE | KPOW: Skeletal and Muscular System. | Year 7: Autumn Term 1 |
|--|---|--|
| Week 2 & Week 3 | Week 4 & Week 5 | Week 6 & Week 7 & Week 8 |
| Name of bone: Cranium | Name of bone: Ribs | Name of bone: Humerus |
| Location: Head | Location: Chest | Location: Upper arm |
| Type of Bone: Flat | Type of Bone: Flat | Type of Bone: Long |
| Function of Bone: Protection of the brain. | Function of Bone: Protection of the heart and lungs. | Function of Bone: Major movements of the arm. |
| Sporting Example: Protects the football player from concussion, when heading the ball, by cushioning the blow. | Sporting Example: Protects the rugby player from a punctured lung, during a rugby tackle, by cushioning the blow. | Sporting Example: Playing a smash in badminton. |
| A J D R C Chartered S | Ess | 中限·南宁 中限·南宁 Probably And |
| | promoted in lossens, that will be an advantage in | |

Skill that is being promoted in lessons, that will be an advantage in the world of work:

Staying positive at all times.

| Computing & Digital Media | KPOW: Computer Hardware | | Year 7: Autu | Year 7: Autumn Term 1 | | | |
|---|--|-------------|---|---|--|------------------------------|--|
| Week 2 & Week 3 | Week 4 & Week 5 | | | Week 6 & Week | Week 6 & Week 7 & Week 8 | | |
| Keywords: Online Safety - The safe and responsible use of the internet and the technology you use. | Keywords: Peripheral – A piece of equipment, such as a printer, that can be connected to a computer. Input & Output – An input refers to data being entered into a computer, whereas data generated by a computer is referred to as an output. | | | Capacity – The ma | Keywords: Storage – Something that holds data. Capacity – The maximum amount a storage device such as a hard drive can hold. | | |
| A password is classed as a strong password if it has the following characteristics: It is not personal to you. At least 8 characters long. Contains a mixture of upper and lower characters. Contains special characters such as symbols. Contains numbers. To stay safe online, you should: | Hardware is any item of a computer that you can physically touch. Example of hardware are: Motherboard – The backbone of the computer, every other piece of hardware connects to this. CPU – This is the brain of the computer that processes everything. RAM - Holds the data and software that is currently being used. | | use of- these are Primary storage – is normally the fast Primary storage is inside the CPU). Secondary storage permanently save | There are two types of storage that computers make use of- these are primary and secondary storage: Primary storage – is directly accessed by the CPU and is normally the fastest memory in the computer. Primary storage is RAM, ROM and cache (memory inside the CPU). Secondary storage – this is where you can permanently save your files. Secondary storage is split into three different | | | |
| Not display personal information on your profile, such as what school you attend, age or your | Peripheral devices are those that can be plugged into a computer and used as accessories. Each peripheral | | | categories. See be | | | |
| address. | device is either an input or an output: | | Magnetic | Solid State | Optical | | |
| Only 'add' people you know.Make sure your account is set to 'private'. | Peripheral Headphones Mouse | Input 🗸 | Output 🗸 | Hard disk drive Tape drive | USB Flash drive SD Card | CD DVD Blu ray | |
| Who can you go to if you need help with something that has happened online? A teacher. Your parents. | Keyboard Printer Monitor | √ | ✓ ✓ | Storage is measured | red in Bytes and spe I in Hertz. | , | |
| The E-Safety co-ordinator in school. | Software is a program that wi | | | | Hertz | Bytes | |
| The Police. | You can use it and interact wi | | | Smallest | | Bit | |
| | physically. Examples of softwa Microsoft PowerPoint. Adobe Photoshop. Microsoft Word. Google Chrome. | are include | 2: | Largest | Hz KHz MHz GHz | Byte KB MB GB TB | |

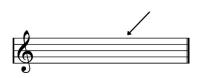
Music

VI LOOM LOO : 51

Week 2 & Week 3: Basic Elements

Key words and definitions

Stave



Pitch

How high or low a note is.

Dynamics

How loudly or quietly a piece of music should be played.

Tempo

The speed at which a passage of music is or should be played.

Treble Clef



Pitch on the stave:

The Spaces on a stave spell the word FACE:



KPOW: Rap

Week 4 & Week 5: Elements Continued

Key words and definitions

Ostinato

A motif or phrase that persistently repeats, usually in the same voice and pitch. A Pattern that repeats.

Duration

How long or short a note is. The different names for notes are Semibreve, Minim, Crotchet, Quaver and Semiguaver.

Tonality

Whether a song is Major (happy) or Minor (Sad).

Pitch on the stave:

The lines of the stave are EGBDF. An easy way to remember this is: Every Good Boy Deserves Football.



Teamwork:

Your rap performance is an ensemble, and every member of your group should make a meaningful contribution to the performance.

Year 7: Autumn Term 1

Week 6 & Week 7 & Week 8: Performance

Keywords and definitions

Percussion

A family of instruments that must be hit (usually with a beater) to make a sound, e.g. Drums.

Performance

When a musician demonstrates their skills practically.

Ensemble

When a group of musicians perform together. These are the different note values (duration):

| Note Names | Note Symbols | Note Value |
|------------|--------------|-------------|
| Semibreve | O | 4 beats |
| Minim | | 2 beats |
| Crotchet | J | 1 beat |
| Quaver | • | ½ of a beat |
| Semiquaver | 4. | ¼ of a beat |

Respect:

When people are performing it is important to show respect. You can do this by sitting silently and watching their performance with focus. You should be prepared to give feedback.

Peer Feedback:

While watching others perform, you should be prepared to give feedback at the end. You should think of 'what went well' (WWW) and one 'even better if' (EBI)

Art Year 7: Autumn Term 1 Week 2 & Week 3 Week 4 & Week 5 Week 6 & Week 7 & Week 8 Key words and definitions **Types of Lines** Pencil control - How you hold your pencil and the pressure you use are important factors within drawing Tone/Value – highlight, mid tones and shadow. This is used to make our drawings look realistic and 3D. and shading - the process of adding value to create the straight (horizontal) Line - a line is a mark made on a surface that joins illusion of form, space, and most importantly, light in a different points. Lines can vary in length, width, drawing. Heavy pressure = dark shade and gentle direction and shape. pressure = light shade. perpendicular straight **Develop** – making progress by refining, improving and curved (vertical) exploring. **Culture** – social traits, beliefs, ideas, possessions that characterise your community and time period. Outcome - A piece of Art that you have created using wavy inspiration from others along with your own ideas. Pattern - a design in which lines, shapes, forms or diagonal colours are repeated. parallel broken (dotted) Blending - Moving from one tone to the next smoothly. broken (dashed) curly or squiggly Observational drawing - to record a subject as Pencils Grades accurately as possible. Fine Pencil 9H 8H 7H 6H 5H 4H 3H 2H H F HB B 2B 3B 4B 5B 6B 7B 8B 9B Smudges Easier More Black

Minsthorpe Community College **KPOW:** Introduction to Drama Year 7: Autumn Term 1 Drama Week 2 & Week 3 Week 4 & Week 5 Week 6 & Week 7 & Week 8 Health and Safety Expectations in the Drama Studio Baseline assessment with script Imagination and Creativity - Sales Pitch **Drama Assessment:** a practical performance acting **Imagination:** the ability to think of new ideas. You must remove your bag, coats and shoes. on stage. No running in the Drama studio. **Script:** the written text of a play or film. No physical contact with other students. Respect the space and your peers. Skills Persuasive Language: can be used to help to sell Skills Skills products or to convince people to accept a view or Spontaneous: the skill of making something up on the idea. **Blocking:** to stop a conversation from happening by

giving one word answers.

Accepting: to converse in a conversation allowing the scene to flow.

Skills in Drama that will be an advantage in the world of work: Leadership, Speaking, Team work, Creativity, Communication, problem solving.

Key Word:

Conversation a talk, especially an informal one, between 2 or more people.

spot.

Rehearsal: a rehearsal is a practice for a performance done prior to an event or before viewing by an audience.

Audience Awareness: the correct positioning on stage. You must be in clear view of the audience.

Key Word:

Improvisation: created spontaneously or without preparation.

Performing: showing your piece of theatre to an audience.

Evaluate work: give feedback to peers on their performance that includes strengths and areas for improvement. This will help them improve their work.

Key Word:

Prop: items held or used by actors onstage to make the action more realistic.



| Learning | 4 Life | | Year 7: Autumn Term 1 |
|-------------------------|---|--|---|
| Week 2 & V | /eek 3 | Week 4 & Week 5 | Week 6 & Week 7 & Week 8 |
| Please learn th | ne definitions of the following 12 words: | Please learn these facts about healthy food choices: | Please learn these key facts about dental hygiene: - Brush your teeth twice a day |
| Hygiene | Maintaining health and preventing disease through cleanliness. | - Recommended daily steps: 10,000 - Recommended daily portions of fruit & vegetables: 5 | - Use floss to help look after your gums - Visit the dentist twice a year |
| Protein | This is needed to build, maintain, and repair the tissues in our body. | - Recommended daily calories for an adult male: 2,500 | visit the defitist twice a year |
| Calories | The amount of energy or sugar in a food is measured by these. | - Recommended daily calories for an adult female: 2,000 - Recommended daily sugar for those aged 7-10: 6 teaspoons | How sugary are some drinks (tsp)? |
| Dairy | Any food made from milk products. | - Recommended daily sugar for those aged 11 and over: 7 teaspoons | 0 6 |
| Physical | Relating to the body, not the mind. | - Too much sugar softens your teeth by removing the enamel | 5.5 |
| Obesity | A medical condition that occurs when a person carries excess weight. | - Protein: builds muscle - Carbohydrates: provide energy | 7 |
| Health | A person's mental or physical condition. | The Healthy Eating Pyramid | 12 29.5 |
| Care | The provision of what is necessary for the health, welfare, maintenance, and protection of something. | The smaller the section in the pyramid, the less of that food you should eat each meal: | How is smoking linked to dental hygiene? |
| Guru Nanak | The name of the person who foundered the religion of Sikhism. | Oils Fats Sweets | Smoking can cause: - bad breath |
| Langar | A free kitchen found in a Sikh place of worship. | | - stained teeth - gum disease - increased plaque |
| Gurdwara | A Sikh place of worship. | | - tartar build up - increased risk of oral cancer |
| Guru Granth Sahib | The Sikh holy book. | https://youtu.be/vADtodHhfKU | https://youtu.be/9Qa2K1CC3Hw |

Home Learning Schedule

| Day | Subject to Learn |
|-----------|-------------------------------------|
| Monday | English and Learning 4 Life |
| Tuesday | Maths and Computing & Digital Media |
| Wednesday | Science |
| Thursday | French, History and Geography |
| Friday | Design Technology, PE & Creative |



Home Learning is set every Monday and will be submitted in P&A Time every Monday

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