## Minsthorpe Community College

## Knowledge Organiser <br> Year 7 - Autumn Term 1

Name:
P\&A group:
Knowledge Assessment: Thursday $26^{\text {th }}$ 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.

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 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.

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## English

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.


## 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.

## KPOW: How do writers construct narratives?

## Week 3: Woman in Black and Foreshadowing

## Key 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 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.

## Year 7: Autumn Term 1

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 s 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

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.


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## 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 4732 .

## 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, $50.6 \times 10=506$

| 100 s | ${ }^{10 \mathrm{~s}}$ | ${ }^{1 \mathrm{~s}}$ | Tenths |
| :---: | :---: | :---: | :---: | :---: |
|  | 5 | 0 | 6 |
| 5 | 0 | 6 | 6 |

$470 \div 100=4.7$


## KPOW: Number system

Week 3: Properties of arithmetic

## Fact families

Here is a fact

| 84 |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 |  |

family, using the

| 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | bar model for $7 \times 12=84$

$$
\begin{array}{lr}
12 \times 7=84 & 84 \div 12=7 \\
7 \times 12=84 & 84 \div 7=12
\end{array}
$$

## Commutativity

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

| Examples | Non examples |
| :---: | :---: |
|  | $\begin{aligned} & 15 \div 3 \neq 3 \div 15 \\ & 5-3 \neq 3-5 \end{aligned}$ |

## 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:

$$
\begin{array}{r}
36 \times 5=180 \\
4 \times 9 \times 5=180
\end{array}
$$

## 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: 1,102 and 5 .

Prime numbers


Prime numbers have exactly 2 factors. The first ten prime numbers are:
$2,3,5,7,11,13,17,19,23,29, \ldots$

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
$1,4,9,16,25,36,49,81,100$. .

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## 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:
$3,6,9,12,15, \ldots$.

## Common multiples

The first five multiples of 3 are:
$3,6,9,12,15, \ldots$
The first five multiples of 4 are:
$4,8,12,16,20, \ldots$
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

$46+76=122$

$$
6+6=12
$$



1

$86-59=27$


The ten goes in the ten's column.

$$
4+7=11
$$

Remember to add the extra ten.

Subtraction

$$
6-9
$$

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

## Multiplication <br> $316 \times 25=7900$



Weeks 7 and 8: Order of Operations

## Division

To divide use the bus stop method
$365 \div 5=93$
The number on top is how many 5 s 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 5 s 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

$$
\begin{array}{rlrl}
3+5 \times 8 & = & (2 \times 3)-(5 \times 8) & = \\
3+40 & =43 & 6-40 & =-36 \\
(3+5) \times 8 & = & 5+6^{2} \div 9 & = \\
8 \times 8 & =64 & 5+36 \div 9 & = \\
5+4 & =9
\end{array}
$$

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## 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.

## 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


## 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.

## 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


Enzyme key mechanism.


## 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.
Organ system: Different organs that work together and have a shared function.

## The Digestive

## system

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


## Weeks 7 and 8: Diseases

We need carbohydrates, fats, proteins, vitamins, minerals, fibre and water 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.
Each enzyme only fits one type of nutrient.

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

## Minsthorpe Community College

## 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.


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.



## 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.


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.



## Year 7: Autumn Term 1

## Week 4: Gas Pressure

## Key word definitions:

Volume: The amount of space something takes up. Measured in $\mathrm{cm}^{3}$.
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.


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



## Minsthorpe Community College

| French | KPOW: Je me présente | Year 7: Autumn Term 1 |
| :---: | :---: | :---: |
| Week 2: Greetings | Week 3: Introductions | Week 4: Pencil Case Items |
| Bonjour [Hello] <br> Salut [Hi/Bye] <br> Coucou [Hi/Hey] <br> Au revoir [Goodbye] <br> À plus [tard] [See you later] <br> À bientôt [See you soon] <br> À tout à l'heure [See you later] | Comment t'appelles-tu? [What are you called?] Je m'appelle $\qquad$ [I'm called $\qquad$ ] <br> Ça va? [How are you?] <br> Quoi de neuf? [What's up?] <br> Ça va bien merci [l'm good/well thanks] <br> Non ça ne va pas [No l'm not good] <br> Oui pas trop mal [Yes not too bad] <br> Bof! [0k] <br> Et toi? [And you?] | Dans mon sac [in my bag] un agenda [a planner] un cahier [an exercise book] un crayon [a pencil] un dictionnaire [a dictionary] un feutre [a felt tip pen] un livre [a book] un stylo [a pen] un taille-crayon [a pencil sharpener] un tube de colle [a gluestick] une calculatrice [a calculator] une gomme [a rubber] une règle [a ruler] une trousse [a pencil case] des ciseaux [some scissors] |
| Week 5: Key Verbs and Connectives | Week 6: Numbers and Ages | Weeks 7 and 8: Months, Birthdays and Revision |
| J’ai [l have] <br> Je n'ai pas de/d' [/ don't have] <br> J'ai besoin de/d' [I need] <br> Je n'ai pas besoin de/d' [/ don't need] <br> Je m’appelle $\qquad$ [l am called $\qquad$ ] <br> Mon frère s'appelle $\qquad$ [my brother is called $\qquad$ ] <br> Ma sœur s'appelle $\qquad$ [my sister is called $\qquad$ ] <br> Mon meilleur ami s'appelle $\qquad$ [my best male friend is called ] $\qquad$ <br> Ma meilleure amie s'appelle $\qquad$ [my best female friend is called $\qquad$ ] <br> et [and] <br> mais [but] |  | Once you have learnt the months and birthday sentences below, revise everything from weeks 1-5. <br> Mon anniversaire est le $\qquad$ <br> [My birthday is the _ $\qquad$ $\qquad$ <br> Son anniversaire est le $\qquad$ <br> [His/her birthday is the _ $]$ ] <br> premier [1st] |

## Minsthorpe Community College

## Geography

Week 2: Our island home.
There are many ways to describe where we live. We often use the British Isles, the UK and Great Britain, some even just say England. The UK includes Scotland, England, Wales and Northern Island. The British Isles includes the whole of the UK plus the Republic of Ireland. However, Great Britain just includes Scotland, England and Wales. It can get a little muddled.

One thing we need to be clear on is that England is only a small part of the UK.


## Week 5: Our local environment

Our local environment is a small area that surrounds us. It consists of human and physical features.
Fieldwork is when you go outside the classroom and find things out for yourself.

This lesson is very skilled based. In the lesson we wil carry out data collection techniques. This is what we do to collect the information we need. Secondly, we will carry out data presentation techniques. This is when we return to the classroom and graph or map our information. We will then practice our evaluation skills to see what went well about the fieldwork and what we could improve if we did it again.

## KPOW: An introduction to the UK.

## Week 3: Land's End to John o' Groats

The Land's End to John o' Groats route stretches the whole length of the British Isles, starting in the southwest of Cornwall and ending in the north-east corner of Scotland.
Many people choose to either walk, cycle or run the 1407 km challenge, raising money for charity.

The route travels through a variety of diverse rural and urban landscapes, including four national parks; Dartmoor, the Lake District, Loch Lomond and the Cairngorms. These spectacular landscapes attract tourists who enjoy outdoor activities such as walking, climbing and water sports.

## Week 6: The UK through Ordnance Survey maps

Maps come in lots of varieties and can be used by lots of groups of people. With maps we need to know:

- The 8 points of the compass (see picture)
- That OS maps show an area in lots of detail
- OS maps use grid lines and symbols to help find places easier
- 4 figure grid references make finding a specific place on a map easier
- The rule for 4 figure grid references is along the corridor and then up the stairs




## Year 7: Autumn Term 1

## Week 4: The UK in Europe

The UK is located mainly between 50 and 60 degrees North.

The UK has many links with Europe including for food, to gain energy and for tourism. The most popular destination for UK holiday makers is Spain (10 million per year).

Cheap flights in the past have led to the increase in travel to European countries.

The UK`s links with Europe are vital for us to maintain our quality of life. Without these links our lives would be very different.

## Weeks 7 and 8: Key Piece of work (KPOW)

In your KPOW, you will be asked about a range of things from the topic you have covered in class. You need to learn the following key words:

## Keywords:

L1: Scale - the size of an area represented on a map.
L2: Diversity - lots/ a variety of.
L3: Latitude - distance north or south of the equator.
L4: Local environment - a small area such as a
housing estate or park.
5: Grid references - used to find a location on an OS map.

## Minsthorpe Community College

## History $\quad$ KPOW: What impact did settlers have on the England? $\quad$ 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 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 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 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.

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.

## 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.


## Minsthorpe Community College

## 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.
Frying- cooking something in a small amount of fat, e.g. onions.

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

## Minsthorpe Community College

## 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


## 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 7 cm by 15 cm .
$15 \mathrm{~cm}=150 \mathrm{~mm}$
$7 \mathrm{~cm}=70 \mathrm{~mm}$

## 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.


## Minsthorpe Community College

## 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 tea.
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 Tjanting (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 yarn.
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 back of the small piece of fabric.
2. Draw image onto tracing paper side.
3. 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 of knitted fabric - sfretiy, doesint fay, unfovelsi
Properies of knitted Fabric
Common knitted products - wooly hats, gloves, saves, tigts,
sock, shints.
Properties of woven fabric - strong rays, ceases esily, doesm
stretch
Compen weven roduct tovers
```

Weft- tread hat goes fom lef tor ight, igignt leff \& ove and

## det the wap thred

Warp - threads that are verte und wich are sel on the loo machine you vesve on
selugbias -is positoned diggnally accoss the fabicicat 55 degyees) so

## 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

## Minsthorpe Community College

| 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 <br> Location: Head <br> Type of Bone: Flat <br> Function of Bone: Protection of the brain. <br> Sporting Example: Protects the football player from concussion, when heading the ball, by cushioning the blow. | Name of bone: Ribs <br> Location: Chest <br> Type of Bone: Flat <br> Function of Bone: Protection of the heart and lungs. <br> Sporting Example: Protects the rugby player from a punctured lung, during a rugby tackle, by cushioning the blow. | Name of bone: Humerus <br> Location: Upper arm <br> Type of Bone: Long <br> Function of Bone: Major movements of the arm. <br> Sporting Example: Playing a smash in badminton. |
| Skill that is being promoted in lessons, that will be an advantage in the world of work: <br> Staying positive at all times. |  |  |

## Minsthorpe Community College

## Computing \& Digital Media

Week 2 \& Week 3

## Keywords:

Online Safety - The safe and responsible use of the internet and the technology you use.

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:

- Not display personal information on your profile, such as what school you attend, age or your address.
- Only 'add' people you know.
- Make sure your account is set to 'private'.


## Who can you go to if you need help with something

 that has happened online?- A teacher.
- Your parents.
- The E-Safety co-ordinator in school.
- The Police.


## KPOW: Computer Hardware

## Week 4 \& Week 5

## 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.

## 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.

Peripheral devices are those that can be plugged into a computer and used as accessories. Each peripheral device is either an input or an output:

| Peripheral | Input | Output |
| :--- | :---: | :---: |
| Headphones |  | $\checkmark$ |
| Mouse | $\checkmark$ |  |
| Keyboard | $\checkmark$ |  |
| Printer |  | $\checkmark$ |
| Monitor |  | $\checkmark$ |

Software is a program that will run on the computer. You can use it and interact with it but cannot touch it physically. Examples of software include:

- Microsoft PowerPoint.
- Adobe Photoshop.
- Microsoft Word.
- Google Chrome.


## Year 7: Autumn Term 1

Week 6 \& Week 7 \& Week 8

## Keywords:

Storage - Something that holds data.
Capacity - The maximum amount a storage device
such as a hard drive can hold.

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 categories. See below:

| Magnetic | Solid State | Optical |
| :---: | :---: | :---: |
| Hard disk drive | USB Flash drive | CD |
| Tape drive | SD Card | DVD |
|  |  | Blu ray |

Storage is measured in Bytes and speed, such as the CPU, is measured in Hertz.

| Order | Hertz | Bytes |
| :---: | :---: | :---: |
| Smallest |  | Bit |
| $\uparrow$ | Hz | Byte |
|  | KHz | KB |
| $\downarrow$ | MHz | MB |
| Largest | GHz | GB |
|  |  | TB |

## Minsthorpe Community College




## Minsthorpe Community College

## Drama

Week 2 \& Week 3

Health and Safety Expectations in the Drama Studio

- You must remove your bag, coats and shoes.
- No running in the Drama studio.
- No physical contact with other students.
- Respect the space and your peers.



## Skills

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.

## KPOW: Introduction to Drama

## Week 4 \& Week 5

Baseline assessment with script

- Drama Assessment: a practical performance acting on stage.
- Script: the written text of a play or film.



## Skills

Spontaneous: the skill of making something up on the 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.

## Year 7: Autumn Term 1

Week 6 \& Week 7 \& Week 8

## Imagination and Creativity - Sales Pitch

- Imagination: the ability to think of new ideas.


Skills
Persuasive Language: can be used to help to sell products or to convince people to accept a view or idea.

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.

## Minsthorpe Community College



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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