

Minsthorpe Community College

Knowledge Organiser Year 8 – Spring Term 1



Name:

P&A group:

Knowledge Assessment: Tuesday 6th February 2024 – Period 3

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.

An **extended metaphor** is a metaphor that continues and is developed over a number of lines or verses. The malcontent is the antagonist, an unhappy

character who causes trouble.

Subject: English KPOW: What is Love? Reading Year 8: Spring Term 1 Week 1 & Week 2 Week 3 & Week 4 Week 5 What is Love? Much Ado About Nothing- Characters Terminology Vocabulary **Dramatic irony** is a situation when the audience knows misogynist – adjective: a person who strongly dislikes **Leonato** – the Governor of Messina something the characters do not. or is prejudiced to women, a woman-hater. Hero – Leonato's daughter (the stereotypical A soliloquy is the act of speaking one's thoughts aloud hubris - noun: excessive pride. heroine) volatile - adjective: liable to change rapidly and on stage. Beatrice – Leonato's niece (the atypical heroine) A malapropism is the mistaken use of a word often for a unpredictably. **Don Pedro** – the Prince similar sounding one, often with amusing effect. tempestuous - adjective: characterised by strong and **Don John** – the malcontent, Don Pedro's turbulent or conflicting emotion. illegitimate brother Vocabulary Claudio – the romantic hero duty – noun: a responsibility, a moral or legal obligation. Terminology Benedick - the comic wit duplicitous – adjective: deceitful, someone who cannot **Antithesis** is the placing of opposite ideas together to be trusted. create a contrasting effect. Vocabulary gull – verb: the act of deceiving or fooling someone. A pun is a play on words, creating a joke from similarstereotypical - adjective: a widely held but fixed and infidelity – noun: being unfaithful or cheating upon a sounding words with different meanings. over-simplified idea of someone or something. loved one. atypical - adjective: unusual, not representative of a treachery – noun: an act of betrayal and deceit. **Context recap**: William Shakespeare wrote 'Much Ado type, group or class. **defame** – verb: to ruin someone's good reputation. About Nothing' in 1599. The monarch at that time was antagonistic – adjective: showing or feeling active epitaph – noun: an inscription on a tombstone. Queen Elizabeth 1. It was a patriarchal society. opposition or hostility towards someone or The genre of the play is comedy. something. Prose is written or spoken language without rhyme or superficial – adjective: a shallow view of what is rhythm. Ordinary sentences, the opposite of poetry. The **narrative structure** of the play is: important, only appearing on the surface. **Blank verse** is poetry with a regular rhythm that does deception – noun: creating misunderstanding or a not rhyme. Climax false view by hiding the truth. Bathos is a sudden change from a serious subject to a The tension, that is building, reaches a peak ridiculous or very ordinary one. An **oxymoron** is a figure of speech putting two Rising action Falling action contradictory or opposing ideas together eg: the up to the main crisis deafening silence. or conflict

Exposition

character etc.

Establishes the setting, mood,

of the climax and the

tension begins to

Denouement

matters are resolved.

The ending when

Subject: Maths

KPOW: Proportional Reasoning

Year 8: Spring Term 1

Week 1: Real life graphs

Linear relationships

A **linear relationship** is one that will create a **straight line** when plotted.

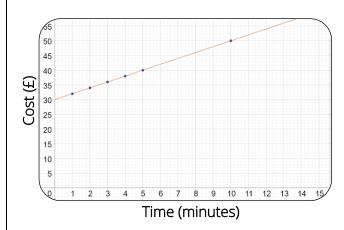
For example

A mobile phone costs £30 upfront and then £2 per minute on a call.

Time (mins)	1	2	3
Calculation	£30 + 2 x	£30 + 2	£30 + £2
	1	x 2	x 3
Cost	£32	£34	£36

Here is a graph to show the cost of having the phone over time.

Plotting this scenario creates a straight line so time and cost have a **linear** relationship here.



Week 2: Rate of Change

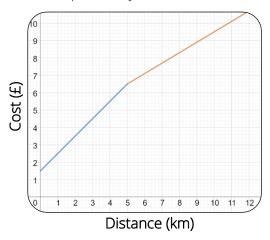
Gradient is a measure of the **steepness** of a line. A gradient can either be **positive** (uphill direction) or **negative** (downhill direction).

Piecewise relationships

When a graph has **different gradients** in different sections it is called a **piecewise relationship**.

For example

A taxi drive costs £1.50 call out fee, £1 for the first 5 kilometres and 80p for every kilometre after that.

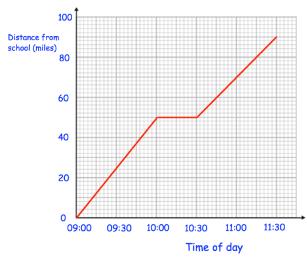


Here the **blue** and **orange** sections have different gradient, so **distance** and **cost** have a **piecewise** relationship here.

Therefore, we cannot write a single equation to capture **both** rates.

Distance-time graphs

Here is an example of a distance-time graph.



In the **sloped** sections, you can calculate the **speed** they are travelling in the first hour by

$$speed = \frac{distance}{time}$$

$$speed = \frac{50 \text{ miles}}{1 \text{ hour}} = 50 \text{mph}$$

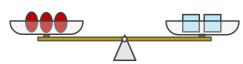
Between 10:00 and 10:30 there is a **horizontal** line, this means they were in one place for half an hour.

Displacement is a measure of distance in **any direction** from a point of reference.

Subject: Maths

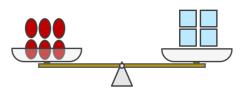
Week 3: Direct and inverse Proportion

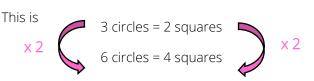
Multiplicative relationships



These scales are balanced.

Therefore 3 circles = 2 squares. Using this we also know that 6 circles = 4 squares.

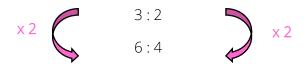




multiplicative relationship and **directly proportional** as both amounts have been multiplied by the **same** number.

Ratio

We can use this to calculate **equivalent** ratios.



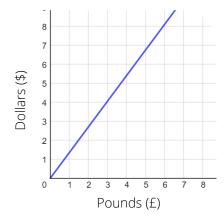
3:2=6:4 because both parts have been multiplied by the **same** number. The number that we multiply by is called the **constant of proportionality**.

KPOW: Proportion

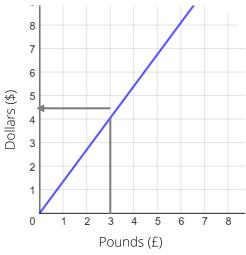
Week 4: Direct and inverse Proportion

Direct proportion graphs

If the relationship between two amounts is **directly proportional**, the graph will be a **straight line** and go through **(0,0)**. For example:



We can use this graph to help calculate the value of £3 in dollars:



Draw a **straight** line up from £3 to the graph and then a **straight** line across to read off £3 = \$4.

Year 8: Spring Term 1

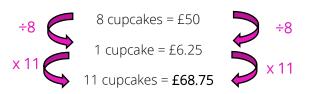
Week 5: Direct and inverse Proportion

Unitary method

When it is not obvious what the constant of proportionality is, find the value of 1.

For example

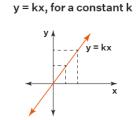
8 cupcakes cost £50. How much do 11 cupcakes cost?

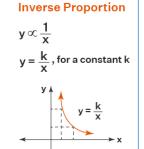


Direct proportion is where one value increases, the other increases.

Inverse proportion is where one value increases, the other is decreases.

Direct Proportion $\mathbf{y} \propto \mathbf{x}$







Subject: Biology

Week 1: Aerobic Respiration

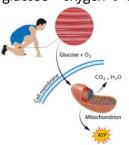
Keyword definitions

Respiration: A chemical reaction that breaks down

glucose and releases energy.

Aerobic respiration: Respiration that happens in the mitochondria in the presence of oxygen.

The equation for aerobic respiration is: glucose + oxygen → carbon dioxide + water



Aerobic respiration is constantly happening in the body and carbon dioxide is lost when we exhale whilst water is lost as water vapour and through urine.

Week 1 continued: Anaerobic Respiration

Keyword definitions

Anaerobic respiration: Respiration that happens in the cytoplasm and not in the presence of oxygen.

Lactic Acid: This is a waste product produced during anaerobic respiration in animals. It can build up in your



muscles and it is this that causes muscle fatigue.

Anaerobic respiration is only used when there is not enough oxygen available to release all the energy that is needed. This often happens during intensive exercise.

Year 8: Spring Term 1

Week 2: Fermentation of Yeast

Keyword definitions

Fermentation: Chemical reaction in plants and fungi to convert glucose into carbon dioxide and ethanol releasing energy.

The equation for fermentation is:

glucose → ethanol + carbon dioxide (+energy)



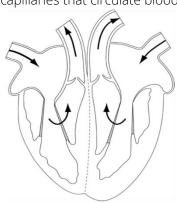
You can investigate fermentation by capturing the carbon dioxide in a balloon and seeing how large the balloon gets.

Week 3: Structure of the Heart

Kev definitions

Heart: A muscular organ in the chest that pumps blood around the circulatory system.

Circulatory system: A series of veins, arteries and capillaries that circulate blood around the body.

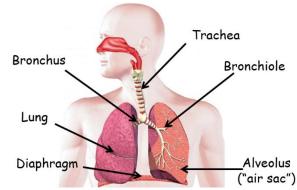


The heart is made of four chambers, two atria and two ventricles. The ventricles pump the blood to the lungs and the body. The atria receive blood from the lungs and body.

Week 4: Lungs

Keyword definitions

Breathing: The process of taking air into the lungs and out again. This is done by **exhaling** air out and **inhaling** it in.



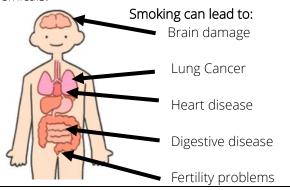
The diagram above shows the main parts of the lungs.

Week 5: Smoking

Keyword definitions

Nicotine: The chemical found in cigarettes that is addictive.

Tar: A sticky brown substance that collects in the lungs when you smoke. Tar contains cancer causing chemicals.



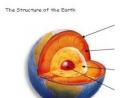


Subject: Chemistry

Week 1: Structure of the Earth

Keyword definitions

Structure – What something is made of and how it is arranged.



The Earth is made up of 4 layers. The centre is the **core** which is made up of the **inner core** and **outer core**. The next layer is the **mantle** then the outer layer is the **crust**. The **inner core** is the **hottest**

layer and is **solid** because of

pressure from the other layers. The **outer core** and **mantle** are in **liquid** form. The **crust** is the **coolest** and **thinnest** layer and is also **solid**.

Earthquakes are caused by the moving **magma** which makes up the **mantle**.

Week 1 continued: Rock types

Keyword definitions

Intrusive – igneous rock formed from magma which cools slowly beneath the Earth's surface.

Extrusive – igneous rock formed from lava which cools quickly above the Earth's surface.

Sedimentary – rocks formed from compaction of layers of sediment.

Examples - limestone and sandstone.

Igneous rocks – rocks formed from cooling of molten material.

Types of Igneous rock

Granite – Intrusive – large crystals.

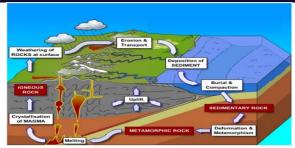
Basalt - Extrusive - small crystals.

Metamorphic – Rocks that have been changed by heat and pressure.

Examples – marble and slate.

Year 8: Spring Term 1

Week 2: The rock cycle



Keyword definitions

Weathering – gradual break down of rocks due to exposure to the atmosphere.

Erosion – the movement of sediment from one place to another.

Deposition – the settling of sediment in one place. **Crystallisation** – cooling and solidifying of hot liquid into crystals.

Week 3: Fossils and crude oil

Key definitions

Fossil – the preserved remains of an ancient organism.

Fossil fuel – a fuel formed from the remains of dead plants and animals (coal, oil and natural gas).

Hydrocarbon – compound made of hydrogen and carbon only.

When organisms die the soft parts decompose but the hard parts (e.g. skeletons) remain.

Fossils form when *rocks* form around the hard remains of organisms which

then dissolve leaving an *imprint* in the rock.

Crude oil forms when *layers* of *sediment* build up on

top of the remains of organisms. The *heat* and *pressure* caused by this build up convert the remains into crude oil. **Crude oil** is a mixture of *hydrocarbons*.

Week 4: The carbon cycle

Keyword definitions
Carbon cycle – shows
how carbon atoms are
transferred between the
atmosphere, organisms
and the Earth.

Carbon stores – a

molecule/substance/organism) where carbon can be found.

Carbon Cycle

Carbon enters plants by photosynthesis.

Carbon enters the **food chain** when plants are **eaten** by animals. When an organism **dies**, the carbon is recycled through **decay**.

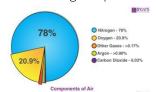
The carbon can then become part of a **fossil fuel**. When fossil fuels are **burned** the carbon re-enters the **atmosphere**.

Week 5: Earth's atmosphere & greenhouse effect

Keyword definitions

Atmosphere – a layer of gases surrounding the planet.

The Earth's atmosphere is 78% *Nitrogen*, 21% *oxygen* and 1% other gases such as *carbon dioxide* and *noble gases*.



The early atmosphere

contained mainly carbon dioxide and no oxygen.

When plants evolved and carried out *photosynthesis*, this reduced the carbon dioxide in the atmosphere and increased the oxygen.

Carbon dioxide is a *greenhouse gas* (along with methane and water vapour). These gases *absorb heat* in the atmosphere and reflect it back towards earth, causing the temperature to increase.



Subject: French	KPOW: Les Vacances Reading	Year 8: Spring Term 1
Week 1: Present tense jouer & sports/hobbies	Week 2: Time phrases	Week 3: Adjectives for giving reasons
jouer [to play]	de temps en temps [from time to time] deux fois par semaine [twice a week]	c'est [it is] qui est [which is] amusant [fun]
je joue [l play]	pendant le week-end [during the weekend]	dangereux [dangerous] barbant [boring]
on joue [we play]	tous les jours [every day] tous les samedis [every Saturday]	ennuyeux [boring]
au basket [basketball]	tous les soirs [every evening]	nul [rubbish]
<pre>au foot [football] au rugby [rugby]</pre>	tous les week-ends [every weekend] une fois par mois [once a month]	facile [easy] difficile [difficult]
au cricket [cricket]	une iois pai mois [once a month]	intéressant [interesting]
au tennis [tennis]		génial [great]
aux cartes [cards] aux échecs [chess]		tranquille [peaceful] reposant [relaxing]
avec des amis [with some friends]		solitaire [lonely / solitary]
		cher [expensive]
		bon marché [cheap] bon pour la santé [good for my health]
Week 4: Past & future verbs and time phrases	Week 5: Revision	Legisland Legisland Legisland Community (Community Community Commu
hier [yesterday]	Weeks. Rensist.	
le weekend dernier [last weekend]	Revise weeks 1-4	
j'ai joué [l played] on a joué [we played]		
c'était [it was] qui était [which was]		
demain [tomorrow] ce weekend [this weekend]		
le weekend prochain [next weekend]		
je vais jouer [I am going to play]		
on va jouer [we are going to play] je voudrais jouer [I would like to play]		
j'aimerais jouer [I would like to play]		
ce sera [it will be] qui sera [which will be] ce serait [it would be] qui serait [which would be]		
qui serait [it would be]		

Subject: Geography

Week 1 & 2: Glaciers Erosion and Deposition

Week 1: Glacial Landforms - Erosion

Glaciers erode the landscape through the processes of abrasion and plucking.

The main erosional landforms are corries, arêtes, pyramidal peaks, and u-shaped valleys.

Hollow: a bowl-shaped dip in the land's surface.

Name and description	How does it form?
Corrie – A bowl-shaped	Layers of snow compact
hollow at the top of a	and turn into ice – the
mountain or hill.	ice erodes the land.
Arete – A knife like ridge	Two corries erode back-
with steep slopes either	to-back and create a
side.	narrow ride and steep
	slopes.
Pyramidal Peak – Three-	Three corries erode
sided Mountain.	back-to-back meaning
	three aretes meet
	creating a sharp point.
U -Shaped Valley – a	When Glaciers flow
deep valley with steep	down old river valleys,
sides and a wide valley	they make the Valley
floor.	wider and deeper.

Week 2: Glacial Landforms - Erosion

Glaciers **deposit** material when they lose energy. This material is called **moraine**. **Terminal moraine** is found at the snout (end) of a glacier. Lateral moraine is found at the sides of the glacier.

Erratics are large boulders that do not fit in with the surroundings. They have been carried there by the glacier and deposited when it melted.

Drumlins are small hills that look like the back of a spoon.

KPOW: Glaciation

Week 3 & 4: Tourism and Glaciation & KPOW

Week 3: Tourism in the Lake District



The Lake district is a great example of a glaciated landform The Lake District is a National Park which is an area where the Landscape is preserved and protected. However, conflict can arise between locals and tourists who want to use the National Park for different reasons.

Tourism in the Lake District

Around **18 million** people visit the Lake District each year to hike, bike ride, climb and do water sports; there are some advantages and disadvantages to tourism in the Lake District.

Advantages: Tourism creates jobs, money from tourists can be used to preserve the area and improve local facilities.

Disadvantages: Tourism can cause traffic and congestions; holiday homes drive up the house prices for local families and tourism can create more pollution and litter.

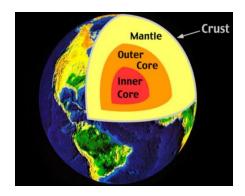
Week 4: KPOW

Year 8: Spring Term 1

Week 5: Structure of the Earth

New topic: Our restless Earth: Lesson 1 Structure of the earth

The Earth is split into **four** layers, the inner core, outer core, mantle, and crust.



The crust is the **outer** layer of the Earth. There are two types of crust: **oceanic and continental** crust. The crust is split into tectonic plates. Where the plates meet is called a **plate boundary**. There are three types of plate boundary. **Destructive boundaries** where the plates collide. **Constructive boundaries** where the plates move apart and **conservative boundaries** where the plates slide past each other.



Subject: History

Week 1 & Week 2: Slave Trade and Experiences



What was the Slave Trade?

Human beings were bought and sold.

'Triangular Trade' was the sailing route taken by British slave traders. It was a journey of three stages, via the Transatlantic route.

The Capture of African People

Criminals and members of rival tribes were sold into the slave trade as a punishment.

The Middle Passage: Second leg of the triangle: Africa to the Americas across the Atlantic Ocean. African people were treated as cargo, they were shackled by their arms and legs, so they could not escape.

How enslaved people were sold in the Americas. Enslaved people were sold by auction to highest bidder.

Life on the plantations

Enslaved people were forced to work on plantations without pay to grow crops such as coffee and sugar. Workers were split into gangs depending on ability, age, health, and gender.

Punishments: Enslaved people were punished in several ways, for example whipping and beatings were common for stealing food or refusing to work.

KPOW: Yaa Asantewaa: A hero?

Week 3 & Week 4: Abolition and Asante

Why was the Slave Trade abolished in Britain in 1807?

1 – Slave resistance made the trade less profitable and less attractive. Some enslaved people used



passive resistance e.g., pretending to be sick. Others used active methods e.g., destroying crops/attempting to kill their master. Example of successful resistance: Enslaved people of St Dominique violently resisted, this led to the abolition of slavery on the island in 1804 and the creation of independent Haiti. 2 – Abolitionists: William Wilberforce was an MP who made many speeches in parliament against the slave trade. Campaigners tried many times to get parliament to abolish the slave trade. In 1807, they finally succeeded.

3 - Economy: From the 1770s onwards, the West Indies became less important to Britain as Cuba and Brazil could produce cheaper sugar, as a result many plantations in the West Indies were closed.

History of an African nation: Rise of Asante

Asante rose to power in the 1700s. The Akan people (later the Asante people) traded gold and enslaved people in return for weapons, with the Portuguese - increasing their economic and military strength.



Fall of the Asante Kingdom

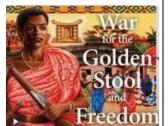
After the banning of the slave trade in 1807 – Britain was looking for a new way to profit from West Africa, so they attempted to colonise the region. The Asante put up a formidable opposition and managed to remain independent for almost a century. It took 4 wars for the British to gain control of the Asante.

Year 8: Spring Term 1

Week 5: Yaa Asantewaa and KPOW

Why should Yaa Asantewaa be remembered?

The kingdom of the Asante was a matrilineal society - people living there inherited their mother's name and status not their father's.



The Asantehema (Queen

mother) would advise the male Asantehene (ruler). Some argue she was a co-ruler. They would sit on chairs of equal size to show their equal status. Women proved their power in Asante when the Asantehema led a rebellion against the Asantehene in 1820.

Significance: After the 4th Anglo-Asante war in 1896, the Asantehene was exiled by the British leaving the Asantehema – Yaa Asantewaa to rule over the Asante people. She then led her people in war against the British over the Golden Stool (believed to hold the souls of the Asante people). Initially, the Asante men did not respond to her call to war – they soon changed their minds when she threatened to call on the women instead.

Results: Short term: The British army defeated the Asante and exiled Yaa Asantewaa. However, they were not able to take the Golden Stool – Yaa Asantewaa proved she was a hero by keeping the Stool safe. Consequently, protecting the souls of her people. Long-term: After being colonised by the British, the Asante Kingdom became known as Ghana. After WW2, the Ghanian people wanted a reward: Their freedom. They became the first colonised African nation to gain independence in 1957. Their leader used the stories of Yaa Asantewaa to inspire his people to fight for this.

Subject: DT - Food

Week 1 & Week 2

Kitchen Health and Safety recap from year 7

- Aprons must be worn during all practical sessions to protect against burns and splashes.
- Long hair must be tied back.
- Hands must be washed regularly throughout but always at the start.

Equipment must be washed, dried, and put back after use.





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.

The bridge and claw method can be used to produce fruit kebabs with a garnish.

Weighing and measuring ensures accuracy when making food during practicals. Always measure in grams (g).

KPOW: End of Module

Week 3 & 4

Bread ingredients

- 500g Strong Plain flour, 1 sachet yeast, 1 teaspoon salt, 25g margarine, 1 teaspoon sugar, 1/2 pint warm water
- Extra ingredients e.g.: Cheese, tomato puree, pepperoni, cocoa/chocolate, berries

Function of ingredients



Method for making bread



ingredients







7 Knead on a floured surface for 8 minutes until stretchy



2. Add bread flour, sugar and butter in a bowl





8. Shape into desired shape and place on a baking tray to prove





6. Mix until it forms a dough - IF DRY ADD MORE WATER IF WET ADD MORE



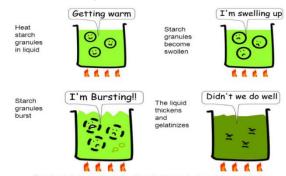
9. Bake at 220 degrees for 15 20 minutes

Year 8: Spring Term 1

Week 5

Gelatinisation

This is the process that occurs when making a sauce and it thickens. A plain sauce is called a ROUX sauce.



Dishes that use a ROUX sauce are:

Macaroni Cheese / Carbonara Ingredients

25g (40g for thicker sauce) Plain flour 25g (40g for thicker sauce) Margarine 1 pint milk, 200g cheese, 300g Pasta

Topping – 100g cheese and/or breadcrumbs (optional) Extra ingredients that can be added - Bacon, cooked chicken, onions, mushrooms, garlic etc

Garnish = a small

amount of food used to

decorate other food

e.g. Parsley or herbs

Lasagne

50g Plain flour 50g Margarine

1 pint milk 200g cheese

1 pack lasagne

1 pack mince meat

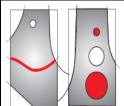
1 onion (optional)

1 tin tomatoes and ½ tube tomato puree OR 1 tin of tomato pasta sauce

Extra cheese for the topping

Subject: DT – Product Design

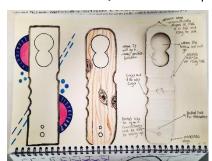
Week 1 & Week 2: Dull to Dynamic Strategy



Design rules – Generating quick sketches to help develop unique designs.

Dull to Dynamic strategy helps create the final idea considering **anthropometric**

measurements (so the bottle opener fits in the



hand comfortably when using it). Dull to dynamic means turning a basic (dull) idea, into a dynamic outcome.

Key terms:

Ergonomics - The study of people and their working environment, especially to improve effectiveness. **Specification -** Precise description of the design and make details that the final product is required to achieve/ meet.

Theory

Workshop Health and Safety.

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

Key terms:

PPE – Personal Protective Equipment

KPOW: Design & Evaluation

Week 3 & Week 4: Wooden Bottle Opener



Workshop skills to cut and shape and smooth the bottle opener using a range of tools and equipment. Product should **reflect** the design and match

the design specifications given.

Tools and equipment

Countersink drill bit –Drills a cone like hole so the flat head screw sits flush against the wood. **Chuck key** – Attaching drill bit to the pillar drill.

Forstner drill bit – Drill blind holes (the holes to attach the 2p and open your bottle).

Chuck key - Used to attach drill bit to the pillar drill.

Evaluation

You will evaluate your completed product and your skills in detail looking at **WWW** (what went well) and **EBI** (even better if). Testing for quality of finish.

Theory

Ergonomics = making products efficient to use. Ergonomics considers issues such as:

- Shape
- Size
- Pressure
- Use
- Features

Ergonomics uses **anthropometrics** (size) to improve products and make them comfortable to use.

Year 8: Spring Term 1

Week 5: Storage Box



Workshop skills - measure, mark and cut 1/2 lap joints and shape a frame for the wooden storage box

complete with **inserts**. **Decoupage** – gluing pictures to the surface and sealing with varnish.

Key words: Tenon saw – Cuts straight

lines.

Tri square – Used to mark and check 90* angles. **½ lap joint** – A joint between two timbers halved together so they overlap each other to create a flush surface.

Metal file – A tool to shape and smooth materials. **Filler** – a mixture of PVA glue and sawdust to create a wood filler that is designed to fill holes and imperfections.

Aesthetic – Pleasing qualities of a product e.g., shape, design, colour, pattern.

Keynote 10cm = 100mm (for every 1 cm = 10 mm) Theory

Product Analysis – looking at existing products and studying how well they do their job looking at **ACCESS FM** – Aesthetics, cost, customer. environment, size, safety, function, materials.



Subject: DT - Textiles

Week 1 & Week 2

Mixed Materials Storage Product

Taping wood together:



Tape around the wood with masking tape to hold it firmly so that you can then accurately drill all 4 pieces together.

Measuring & Marking the wood before drilling it:



The blue template that is used to help you achieve accuracy is called a 'JIG' (something that guides you to achieve the same again and again therefore consistent and accurate).

Design theme: Pop Art – Art movement of 1950s & 60. Challenged traditional fine art using images from popular culture like comic books and product labels – everyday life things. It uses bright colours. Famous artists of this movement include Andy Warhol and Roy Lichtenstein.



KPOW: Storage Product

Week 3 & Week 4

Creating a block print



Place template on foam, draw round, cut out, stick on block with doublesided tape

Creating patterns using a block:



THEORY: SMART materials Respond Automatically to a Changing Environment (RACE = acronym) Examples of change are: temperature, light, electrical current, pressure and motion.

Microencapsulation: microscopic bubbles filled with a substance then sprayed onto fabric. Examples of substances are anti-bacterial, fragrance, antiallergic & mosquito repellent.

D30 = smart material that is like playdough until it is hit (blunt force), its molecules then lock solid.

Thermo chromic = dyes that change colour in response to changes in TEMPERATURE.

Photo chromic = dyes that change colour in response to ULTRAVIOLET LIGHT (UV).

Year 8: Spring Term 1

Week 5

Product Analysis

Investigating similar products to those you wish to design and make. Gathering useful information such as what materials they are made from, the cost, the function, what is successful about them and what, in your opinion would make them even better.

A Hem – the finish made to the bottom of clothes such as trousers and skirts. The edge is turned up to create a neat finish (overlocked and turned, or turned twice so no raw edge).

Plain Seam – how most clothing is joined, it's the most common joining seam. Two pieces of the garment are laid together and sewn on the Seam Allowance (normally 1.5cm).

Casing – this is like a hem, but the fold is larger which creates a space between the stitch and the top that something like elastic or a drawstring could be pulled through. For this project, the space will need to be big enough to push the dowel through.



THEORY: modern materials that have been created through technological development. Examples of such are Kevlar (V strong, bullet proof vests), Super hydrophobic (repels water), Nomex (fire resistant), Carbon Fibre (light, rigid – racing cars) and Rhovyl (long lasting antibacterial).

Subject: Core PE

Week 1 & Week 2: Strain

Definition- A stretch or tear in the muscle. Sometimes this is known as a pulled muscle. Strains occur due to overstretching.

Example- A footballer might strain their hamstring when they are overstretching for an interception.

Prevention of injury- A strain could be prevented by doing a proper warm up and stretching before exercise.







KPOW: Key Words

Week 3 & Week 4: Concussion

Definition- A concussion is a mild head / brain injury. It's caused by a blow to the head or by whiplash. Example- A rugby player might get a concussion if there is a clash of heads or if there is an impact with the ground.

Prevention of injury- A concussion can be avoided by playing to the rules of the sport or by wearing protective headwear.







Year 8: Spring Term 1

Week 5: Dislocation

Definition- A dislocation is where one of the bones at a joint comes out of place.

Example- A netball player may dislocate their shoulder if they put their arms out to stop a fall.

Prevention of injury- A dislocation could be avoided by playing to the rules of the sport and avoiding any unnecessary contact.









Subject: Computing & Digital Media	KPOW: Number Systems	Year 8: Spring Term 1	
Week 1 & Week 2	Week 3 & Week 4	Week 5:	
Keywords: Denary: Also known as decimal, a base 10 number system that uses 10 different units (0-9). Binary: A base 2 number system, that uses two units: 1 and 0.	Keywords: Hexadecimal: A base 16 number system that uses 16 different units (0-F). Binary Overflow: 8-bit binary has a maximum value of 11111111 (255). Anything over this value, for example 278 will produce an overflow error.	Keywords: Storage: Something that holds data. LAN: Local Area Network WAN: Wide Area Network	
Computers uses the binary number system since the CPU is made up of billions of transistors. These are like switches which turn on and off (1 and 0). Humans use the denary number system; this is our standard counting numbers. We need to convert	Binary addition rules Rule One: 0 + 0 = 0 Rule Two: 1 + 0 = 1 Rue Three: 1 + 1 = 10 (binary for 2) Rule Four: 1 + 1 + 1 = 11 (binary for 3)	Primary storage: is directly accessed by the CPU and is fast access memory. Secondary storage: is slower and is used for long term storage of files. There are 3 types of secondary storage:	
between binary & denary. A binary number is written as a pattern of 8 digits, each digit is either a 0 or a 1. We use placeholders to help us read and write binary numbers.	Hexadecimal number system Numbers 0 – 9 are the same as denary. Den 10 11 12 13 14 15 Hex A B C D E F	MagneticSolid StateOpticalHard disk driveUSB Flash driveCD(HDD)SD CardDVDTape driveBlu ray	
The pattern 00001001 when written out under the placeholders would be the number 9 as shown below: (8 +1 = 9) 128 64 32 16 8 4 2 1 0 0 0 0 1 0 0 1 • Converting denary into binary: 66 = 01000010 (0+64+0+0+0+0+2+0). • Converting binary into denary: 01010001 = 81 (0+64+0+16+0+0+0+1).	 Converting Binary to Hexadecimal Break the binary up into groups of 4 digits. Convert each group of 4 digits into denary. Convert each denary value into its hex. Put the hex digits together. Converting Hexadecimal to Binary Split the hex number into 2 individual digits. Convert each hex value into denary. Convert denary digit into 4 binary digits. Combine all 8 binary digits to make one 8 bit binary number. 	Types of networks: LAN covers a small geographical location. E.g. LANS are used in small businesses, schools, and in homes. WAN covers a large geographical location. e.g. The internet is the largest WAN.	

Subject: Music

Week 1 & Week 2

What is classical Music?

Classical music is traditional, Western, often orchestral, music / music that isn't jazz, popular music or folk music.

A specific type of 'classical' music written between 1730 and 1820.



What is an orchestra

An orchestra is a group of lots of musicians from the classical period. There are four sections we call families:

String, Woodwind, Brass & Percussion



KPOW: Classical

Week 3 & Week 4

Conductor

This is the person who stands at the front of an orchestra and keeps them in time. They usually have a stick called a baton to keep them in time.



Classical composers

There are many great classical composers of music, the ones we will focus on are:



Beethoven -

(1770 - 1827, Germany)



W.A. Mozart

(1756 - 1791, Austria)

Year 8: Spring Term 1

Week 5

Note Values

Music Theory is the written aspect of music which gives us information about how long musical notes should be held on for.

Notes	Name		Value
0	Semibreve	Whole note	4 beats
J	Minim	Half note	2 beats
٦	Crotchet	Quarter note	1 beat
J	Quaver	Eighth note	1/2 beat
A	Semi-quaver	Sixteenth note	1/4 beat
Ú	2 Quavers	2 Eighth notes	1 beat
	4 Semi- quavers	4 Sixteenth notes	1 beat

Baroque music

Baroque music is one of the <u>earliest</u> types of 'classical' music.

Baroque refers to a time period from 1600s-1750s.

Instruments

The main Instruments of Baroque music was the harpsichord.



Minsthorpe Community College

Subject: Art

KPOW: Culture - Pop Art

Year 8: Spring Term 1

Week 1 & Week 2: Baseline

Keywords and definitions

- **Depth**: The perceived distance between the background and foreground of a composition.
- **Influence**: The capacity to have an effect on the character, development or behaviour of someone or something.
- **Research**: A creative activity to increase knowledge and understanding.

Observational Drawing: to record a subject as accurately as possible.



Week 3 & Week 4: Artist Page

Research – Pop Art. Sarah Graham

During this topic you will learn about Pop Art and the artist Sara Graham.

- Popular Culture: is all the elements that make up our everyday life. This includes our routines, jobs, fashions, food and belongings and are usually shared interests with our friends, families and communities.
- Pop (short for popular) Art: is an Art movement from the 1950s to 1960s. The movement challenged the idea of other traditional art forms by including imagery from popular culture such as advertising, comic books and regular, everyday items
- Sarah Graham: works with oil paints on canvas to create hyper realistic paintings. She uses everyday objects to inspire her work.

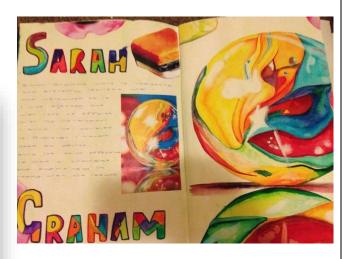


Week 5

Artist page development.

Create a page all about the Pop Art. Think about the layout carefully. This page is very important as it will form the basis of the next stage of your project. Change the size of images, overlap and add pencil colour using your knowledge of colour blending.

Outcome: A piece of Art that you have created using inspiration from others along with your own ideas. **Layout**: The arrangement of elements on a page usually referring to specific placement of image, text and style.



Subject: Drama

KPOW: Physical Theatre

Year 8: Spring Term 1

Week 1 & 2: Introduction to Physical Theatre

Physical Theatre - is a type of performance that uses physicality of movement as the primary method of Storytelling.

Warm up: prepare for physical activity or a performance by exercising or practising beforehand.

'Warming up your body before a performance is critical for the actor.'



Break into 8: is a physical theatre device with 8 simple steps.

Cannon: occurs when an actor performs a phrase of movements one after the other.

Synchronised Movement: is when two or more actors move in the same way at the exact same time.

Transition: The movement from one scene to another is called a transition.

Week 3 & 4: Techniques

Frantic Assembly: are an internationally renowned physical theatre company founded in 1994.

Abstract Theatre – Abstract theatre is centred around the concept of representing situations and emotions, as opposed to acting them out in a realistic way.

'Our aim is to make inspiring and accessible work across the world.'

FRANTIC ASSEMBLY

Mirroring – Partners stand facing each other. One is the leader, the other, the "mirror." The leader begins to make simple gestures or movements. The "mirror" duplicates the leader's movements exactly how a mirror would.

Round by Through: When you create a series of movement by going 'round' your partner, being 'by/parallel to your partner and going 'through' your partner.

Week 5: Practical Exploration

Verbatim – Copied, quoted, or translated in the same words as were used originally.

Rehearsal: a session of exercise or practice, usually private, in preparation for a play or a performance.

'Don't practice until you get it right. Practice until you can't get it wrong'.



Performance – An act of presenting a play, concert, or other form of entertainment.

Peer Feedback – Enables the performer to improve their work, based on feedback of strength and weaknesses.

Self - Reflection – Enables you to question your performance work, in a positive way, what you do and why you do it and then deciding whether there is a better, or more efficient way of doing it in the future.

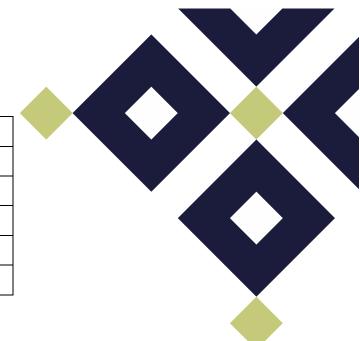


Minsthorpe Community College

Subject: Lea	arning 4 Life		Year 8: Spring Term 1
Week 1 & Wee	k 2: Key Words	Week 3 & Week 4: Lazarus & the Rich Mar	Week 5: The Suffragettes
Please learn th	e definitions of the following 12 words:	Please read and learn the story below:	Please learn these key facts below:
Segregation	To separate black people from white people.	Lazarus and the Rich Man	The suffragettes were women who organised protests in order to earn the right to vote for women.
Equality	To treat all people in the same way.	The rich man had everything he needed	d and Read and learn the facts below about the suffragettes:
Civil Rights	The rights of all people to receive equal treatment.	more.	There were many women who were suffragettes including: Millicent Fawcett, Emmeline Pankhurst and
Sexism	The belief that some people are superior to others due to their sex.	Lazarus had nothing, always did all he coul	
Suffragettes	Women seeking the right to vote through organised protests.	help others.	speak out, they even shouted at Winston Churchill when he was an MP.
Martyr	A person who is killed because of their religious or other beliefs.	The rich man does not to help Lazarus, he e	ways, challed themselves to
Campaign	To work in an organised/active way towards a particular goal.	forbids his servant fr giving Lazarus his scr	om churches and attacked politicians.
Motivation	A reason for acting/behaving in a certain way.		introduced which meant those in
Career	A job done for a long period of time with the opportunity to progress.	When the rich man d goes to Hell. This is because didn't help L	released then re-arrested when healthy again.
STEM	It stands for science, technology, engineering and mathematics.	when he was alive.	Emily Wilding Davison is famous as she was killed by the King's horse at the Epsom Derby trying to place a
Aspiration	A dream or ambition to achieve something.	When Lazarus dies h to Heaven. This is be	ecause Finally in 1918, women over the age of
Compassion	Sympathetic pity and concern for the sufferings or misfortunes of others.	he was always willing help others.	30 earned the right to vote. It wasn't until 1928 that women were given the same voting rights as men.

Home Learning Schedule

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



Ho Home Learning is set, on Satchel:One, every **Monday** and will be submitted in **P&A Time** every **Monday**.

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