The Rudheath Senior Academy



Powerful Knowledge Booklet

Year 8
Spring Term 2- HT2





Look, Cover, Write, Check: How to Effectively Learn and Recall Powerful Knowledge



Pick a **section** of your powerful knowledge sheet and **read it aloud or write it down** several times. Try to pick a section you're least confident with.



Cover up the section you want to test yourself on, either with a piece of paper or turn the page over so you can't read the content beneath.



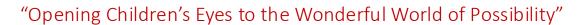
Write out the powerful knowledge you can recall on a separate piece of paper.

Trying to recall the knowledge out loud can also be effective.



Check the knowledge you have recalled against your powerful knowledge sheet and repeat until you are confident recalling the section.

Aim to spend 10 minutes on this at a time







English Powerful Knowledge Voices from Around the World- Poetry

Term	Definition
Culture	The way a group of people live, including their customs, beliefs, food, language, and traditions.
Race	A way people are grouped based on physical features like skin color, hair, and facial traits.
Ethnicity	A group of people who share common traditions, language, or ancestry.
Tradition A special way of doing things that is passed down from generat generation.	
Oppressed When a group of people is treated unfairly and denied rights or opportunities.	
Empathy	Understanding and caring about how someone else feels.
Origin	Where something or someone comes from.

Poetic Technique	Definition
Enjambment	When a sentence or thought continues beyond the end of a line in a poem without a pause.
Metaphor	A way of comparing two things by saying one thing is another, without using "like" or "as" (e.g., "The classroom was a zoo").
Simile A comparison between two things using "like" or "as" (e.g smile was as bright as the sun").	
Personification	Giving human qualities to something that isn't human (e.g., "The wind whispered through the trees").
Caesura A pause or break in the middle of a line of poetry, often punctuation.	
Stanza	A group of lines in a poem, like a paragraph in writing.
Rhyme	When two or more words have the same ending sound (e.g., "cat" and "hat").

Our values: Excellence & Kindness



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Maths Powerful Knowledge

Percent: parts per 100 — written using the % symbol.

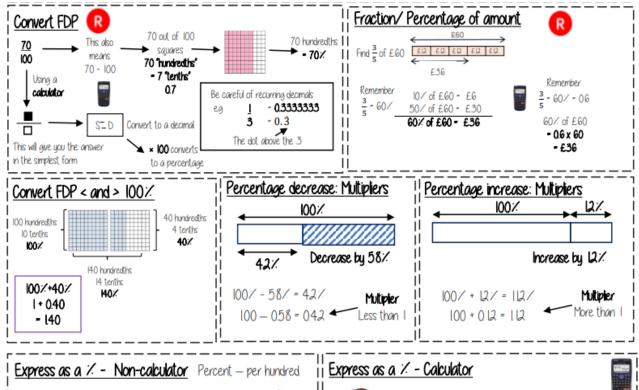
Decimal a number in our base 10 number system. Numbers to the right of the decimal place are called decimals

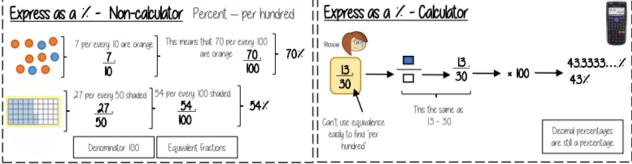
Fraction: a fraction represents how many parts of a whole value you have.

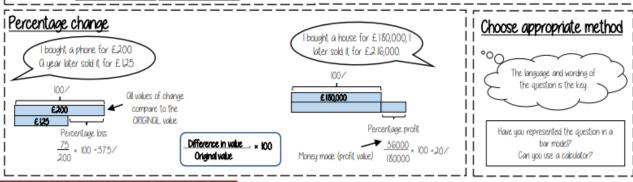
Equivalent: of equal value. **Reduce:** to make smaller in value. **Growth:** to increase/ to *ar*ow.

Integer: whole number, can be positive, negative or zero.

hvest: use money with the goal of it increasing in value over time (usually in a bank).











Maths Powerful Knowledge

Standard (index) Form: Q system of writing very big or very small numbers

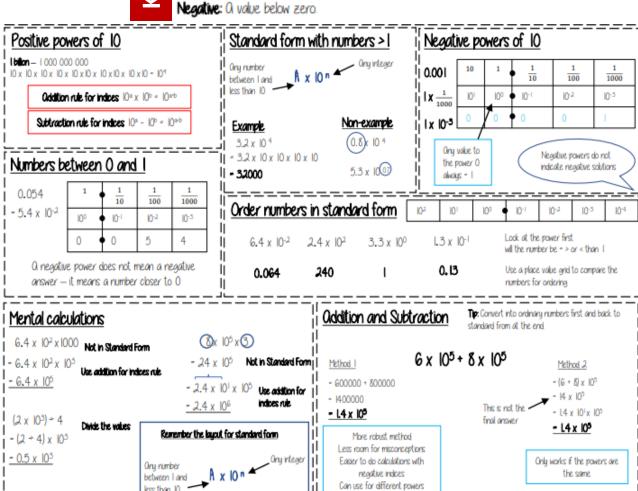
Commutative: an operation is commutative if changing the order does not change the result.

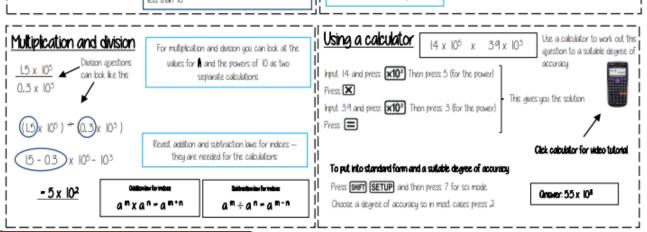
Base: The number that gets multiplied by a power

Power: The exponent — or the number that tells you how many times to use the number in multiplication

Exponent: The power — or the number that tells you how many times to use the number in multiplication

Indices: The power or the exponent.









Maths Powerful Knowledge

Significant: Place value of importance

Round: Making a number simpler but keeping its value close to what it was.

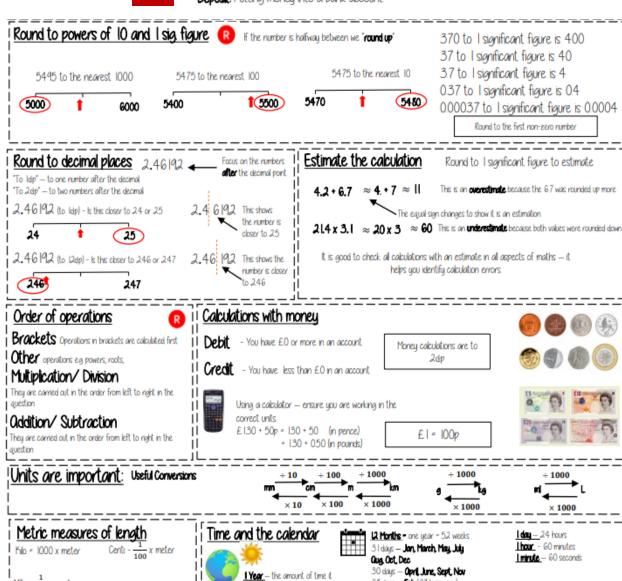
Decimal: Place holders after the decimal point.

Overestimate: Rounding up — gives a solution higher than the actual value Underestimate: Rounding down — gives a solution lower than the actual value.

Metric: a system of measurement.

Balance: The amount of money in a bank account.

Deposit: Putting money into a bank account.



takes Earth to go around the

sun 365 (and a quarter) days

Leap Year - 366 days (every

Onaloaue Clock

4 years)

Units of weight/capacitu

Capacity (volume of liquid) = ml, L

Mili – 1000 x meter

Weight = g kg, t

Digital Clock (24-hour times)

Use a number line for

time calculationsl

24-hour clock

0-11 (morning hours)

12-23 (afternoon hours

28 days - Feb (29 leap year)

Monday, Tuesday, Wednesday,

Thursday, Friday, Saturday, Sunday

I week - 7 days

Use am (morning) and pm (afternoon)

Only use hour times up to 12



Science Powerful Knowledge

cell in plants.

one copy is present.

dominant - An allele that is always expressed, even if only

DNA - A polymer that is made up of two strands that form a

gamete - Sperm cell and egg cell in animals; pollen and egg

The cell divides once.

The chromosome number of the daughter | The chromosome number is reduced by hal

cells. In

In humans, this is 23 chromosomes

Daughter cells are genetically identical Produces two daughter cells

Daughter cells are not genetically identical

The cell divides twice.

Produces four daughter cells

Sex Determination

Mitosis

fertilisation – The fusion of male and female gametes

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Inheritance





Science

parents. Leads to variation in the offspring. combining genetic information from the gametes of two **sexual reproduction** – The production of offspring by are present polydactyly - Having extra fingers or toes. It is caused by a combination of alleles. **phenotype** – The characteristic expressed because of the

recessive - An allele that is only expressed if two copies of it

from one parent

Put the two alleles

Step 3:

one dominant and means they have top. This parent is

a heterozygote. This into the boxes at the

This parent is also a boxes on the left. parent into the from the second Put the two alleles

> underneath them. into the two boxes Put the alleles from

to the right of them

will not.

combination will show the phenotype while the other three

into the two boxes the second parent Put the alleles from mutation - A change in DNA heterozygous – A genotype that has two different alleles, one **genotype** – The combination of alleles **genome** – The entire genetic material of an organism gene – A small section of DNA that codes for a specific protein.

dominant and one recessive.

reproduction

humans, this is 46 chromosomes. cells is the same as the parent

Used for growth and repair, and asexual

Produces gametes for sexual reproduction.

Females carry two X chromosomes

Males carry one X and one Y chromosome

There are four possible

male genotype

Either two dominant alleles or two recessive alleles gametes for sexual reproduction. the chromosome number of the daughter cells. It makes meiosis - The two-stage process of cell division that reduces homozygous - A genotype that has two of the same alleles.

> Step 2:

How to Complete a Punnet Square

⊳



Step 4:

or 0.25 One of these four has that offspring can inherit combinations of gametes female genotype

> ₽ ₿ ➤

aa a a

The recessive phenotype has a ratio of 1:3 because only one the genotype aa - that's 1/4 25% cystic fibrosis - A disorder of cell membranes that is caused **chromosome** – Structures that contain the DNA of an organism single parent by mitosis. The offspring are clones of the parent asexual reproduction – The production of offspring from a

and are found in the nucleus.

allele – An alternative form of a gene

Inheritance, Variation and Evolution Knowledge Organiser

8

dad ₹ × $\stackrel{\times}{\sim}$ $\stackrel{>}{\sim}$ · male

female

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Science Powerful Knowledge





Key Words		Structure of the Earth		
atmosphere	A layer of gases that surrounds the Earth.	crust		The fossil record and the shapes of the continents provide evidence that the Earth's surface has changed
climate change	A change in the average temperature and cycles of weather over a long period of time.	The rocky surface of Earth. The rock that makes up the Earth's crust contains minerals. These minerals are often mined to produce useful materials such as metals and building materials. The crust is divided into sections called tectonic		over time. This happens because convection currents in the mantle cause tectionic plates to move.
·	The wearing away and	plates.		when tectonic plates move towards or past each other
erosion	transportation of material by the movement of water, wind or ice.	mantle		towards or past each other cause earthquakes.
igneous rock	A type of rock formed when hot, molten rock crystallises and	A semi-solid layer of molten rock called magma. The mantle is very hot and dos very slowly.		Mountain ranges can be
	solidifie.	the crust to the surface of the Earth, it is known	- No.	push each other upward.
lava	Hot molten rock that whos from a volcano or cracks above the Earth's	as a solvania et abatorii		
magma	Semi-molten rock found beneath the surface of the Earth.	Outer Core A molten mixture of iron and nickel metals. The metals flo and move around. This generates the Farth's macheric fled	inner core A solid mixture of iron and nickel metals at	Valleys, oceanic ridges and volcanoes can form when tectonic plates move away
metamorphic	A type of rock formed when other	or the state of th		from each other.
rock	extreme heat and pressure.	The Atmosphere		
metamorphism	The process in which sedimentary and igneous rocks are changed by heat and pressure to become	For the sirt billion years after the Earth formed, carbon dioxide was the most abundant gas in	The composition of the atmosphere today is:	
	metamorphic rocks.	the atmosphere. Since then, the atmosphere has changed:	key	
mineral	A naturally occurring element or compound.	 Water vapour in the early atmosphere condensed and formed the oceans. 	78% nitrogen	
sedimentary rock	A type of rock formed when layers of sediments build up and become cemented together.	 Carbon dioxide dissolved in the oceans. Plant life evolved and released oxveen into the armosphere when 	21% oxygen	
weathering	The breaking up of rocks by natural forces, without major movement. There are three types: physical, biological and chemical.	they started to photosynthesise. • Animal life was then able to evolve.	1% other gases (including carbon dioxide, methane and noble gases)	

REMARKABLE RUDHEATH



History Powerful Knowledge

Y8

How did the Industrial Revolution impact lives?

Griffin said "The patches of sunlight certainly shone more brightly on men"

Men could have better jobs in new cities e.g.

There were lots of jobs available

Factory work was all year, unlike farming which was only parts of the year

George Collyer:

Sam Catton:

works for "very good wages"" employment at the chemical "Samuel Catton found

Men could earn higher wages, this meant they could live a better life

"Working on the railway gives you

a lot more freedom than working on a farm."

Women:

Griffin said women's lives improved slightly, but notas much as men

Unmarried, single women found work in factories and mills

Women did get paid lower wages than men

 Very few women continued to work after they had children. They had to stay at home to look **after the children**

Betty Shaw

Eliza Mitchell

immediately after her wedding. She had shoes, which wasa skilled job, but "Eliza worked making children's she quit once she had children" 8 children and never worked again" "Left her job and gave birth almost

 Most children worked, many in mills, factories and down mines Most children had a job by aged 10, some were as young as 4

Griffin agrees that life for children was tough in the Industrial Revolution

Emanuel Lovekin Work was very tough and dangerous for children "I had to rise at 4 a.m. every morning

Robert Lowery

"I wassent to the mines at the age of 7, opening a door for the wagonsto pass through" which continued from 5 am until6 pm" and walk nearly two miles to work,

on their wives or children… the industrial revolution heralded the advent ways. The patches of sunlight certainly shonemore brightly on men than Men, women and children felt the industrial revolution in very different

not of a yet 'darker period', but of the dawn of liberty."

WATER STATE

Historian, Emma Griffin has argued that life was not so bad for those in the time, but that it was a **Liberty's Dawn**. A time of **improvement, opportunity and**

reedom for the working classes of Britain.

Revolution was Libertys Dawn Derefore the Industrial more opportunities Higher wages and increased status (23) Much factory better wages work paid than farm opportunities The Industrial ncreased job Revolution

©)	ት ት ት ት	•			1
 The money you earn from your job	Population The amount of people in a country	People who live in poverty struggle to have the money to pay for food, their bills and anything else.	Housing built in blocks, connected side to side and back to back. They have no garden at all.	A building with machinery that is use to produce goods e.g. Cloth, pottery and	People who earn money through working in physical jobs such factories, building or being a servant.
sə∄e∧	Population	Poverty	Back to Back	Factory or Mill	Working class
1	2	3	2	9	7

Knowledge Organiser: Was the Industrial Revolution 'Liberty's Dawn?'

Britain went from a country based on farming, with every living in the countryside to one where people moved to growing cities to work in new factories, which produced goods.

The Industrial Revolution is the name given to the period between 1750 and 1900, when

Britain went through huge changes and became very wealthy (rich.

It had a huge effect on families, with some claiming it was a disaster for the working class

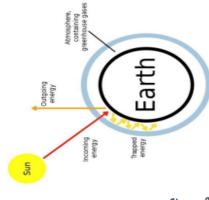
Jberty's Dawn?





Geography Powerful Knowledge

Y8



greenhouse gases. The effect of this warms the earth's surface and lower atmosphere. Human Some of this infrared radiation passes through the atmosphere, but most is absorbed and reradiation is emitted from the Earth's surface. About half the solar radiation is absorbed by reflected by the Earth and the atmosphere. Solar radiation (the sun's rays) power the the Earth's surface and warms it. Infrared climate system. Some solar radiation is emitted in all directions by clouds & What is the greenhouse effect?

> Greenhouse gas - a gas, present in the atmosphere, which reduces the loss of ieat into space (carbon dioxide, methane, nitrous oxide, water vapour, CFCs).

Earth's heat escaping into space

Greenhouse effect - the process by which CO² and other gases prevent the

Climate - the average weather conditions in an area over a period of time

Atmosphere - a layer of gases that surrounds the planet

Llimate Change Knowledge Organiser

Weather - the current conditions in the atmosphere

Enhanced Greenhouse effect - the effect of increased levels of CO² and other

Carbon emissions - CO2 added to the atmosphere by burning fossil fuels

Global warming - the slow increase in the earth's average temperature

gases in the atmosphere to prevent more of the earth's heat from escaping

gasses in the atmosphere, and can therefore increase global temperatures. activities can impact the amount of greenhouse

Impacts of climate change

Climate change affects the whole planet but looks different in different places or seasons.

3urning fossil fuels – fossil fuels like coal and natural gas fransport emissions – most use petrol or diesel for fuel which releases greenhouse gases into the atmosphere. contain high amounts of carbon; burning them for energy releases this carbon into the atmosphere

shotosynthesis; if they are cut down there will be more carbon in the atmosphere

Deforestation - trees absorb carbon and transform it into oxygen during

Dumping waste in landfills - when waste is left to decompose in a landfill it Agriculture - agricultural practices lead to the release of nitrogen oxide & produces and gives off methane, another greenhouse gas like carbon nethane into the air

Natural causes

average temperature changes a lot due to changes in the tilt, wobble and Orbital changes - the Earth has natural periods (like ice ages) where the shape of the orbit. Solar output - the amount of solar radiation from the sun changes; if it is stronger, Earth's temperatures will rise Volcanic eruptions – during a volcanic eruption carbon dioxide is released.

Below are some examples of positive and negative effects of climate change.

Longer growing season for Positive agriculture

areas become unsuitable for human life Increase in climate change refugees as Sea level rise will affect ~80 million temperature increase

Energy consumption may

decrease due to warmer

climate

Malaria and cholera increase due to

Negative

- increased ocean/ sea temperatures Coral reefs damaged as a result of people
- Species in affected areas (i.e. Arctic) Tropical storms will increase in magnitude (strength)

faster shipping routes may

increase in fish stocks in open up, helping trade

some areas

As ice melts in the Arctic,

able to grow crops

Northern Canada may be

Frozen regions like

- Ski resorts may lose business as snow may become extinct
 - cover decreases

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Causes of climate change





Geography Powerful Knowledge

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Popartion of total electricity generated from different sources in the

UK electricity generation

or **non-renewable** (meaning they can only be used once and will eventually run out). over and over again without running out) worry about future generations running sustainable because we never have to Renewable energy sources are more

Non-renewable	Coal	Natural gas	lio	Nuclear power
Renewable	Wind power	Hydro-electric power	Wave & tidal energy	Solar power

Geothermal energy

PARIS 2015

Hydro-Electric Power	Fast flowing water is	used to turn the	turbines, thus	generating energy.	Water is often stored	behind a dam in deep	valleys.

nacelle containing generator

e spin and thus turn

enerator which ces electricity.

energy is produced

the blades of the

Advantages	Disadvantages
- Dams can manage	- Can damage wetland
flooding and water	and aquatic ecosysten
resources	downstream
- Reservoirs can be used	 Expensive to build
for water sports	 Large areas of land
- Can be used for	must be flooded to
irrigating crops	create reservoirs

Difficult to store excess

flying past

d beneath them can

ewable

ed for other things

arming

Wind is unreliable and

duce very little Advantages

Disadvantages

They can injure birds may not always blow







Using renewable energy sources e.g. solar panels

Using public transport or walking/cycling

Reducing waste and recycling

Buying local produce.

Insulating houses

Investing in public transport or cycling infrastructure e.g. International agreements such as the Kyoto Protocol or Investing in renewable technology such as wind energy Governments can reduce emissions by

Paris agreement

Nuclear Power

cycle lanes

Nuclear Power		MING
Nuclear power is created from		Wind
the release of energy from	3	when
nuclear reactions (fission or		the ge
fusion). These reactions usually		produ

Advantages	Disadvantages
. a contraded	2000
- Does not release much - Non-renewable	- Non-renewable
carbon	 Produces dangerous
- Can provide cheap	waste to be disposed of
power to LICs	- Accidents and leaks can
- Only small amounts of	be deadly and last for a
fuel needed to produce	long time
lots of energy	200
compared to fossil fuels	

Climate Change Knowledge Organiser

ndividuals can reduce their emissions by:

Reducing emissions

Driving electric cars

use uranium or plutonium.

Planting more tress

Eating less meat



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Spanish Powerful Knowledge

¿Te gustaría ir al cine?	? Would you like to g	o to the cinema?	
¿Te gustaría ir?	Would you like to go?	al parque	to the park
a la bolera	to the bowling alley	a la pista de hielo	to the ice rink
a la cafetería	to the café	al polideportivo	to the sports centre
al centro comercial	to the shopping centre	¿Te gustaría venir a	Would you like to come to
al museo	to the museum	mi casa?	my house?
¿Dónde quedamos?	Where do we meet up	?	
al lado de la bolera	next to the bowling alley	enfrente del	opposite the sports
delante de la cafetería	in front of the café	polideportivo	centre
detrás del centro	behind the shopping	en tu casa	at your house
comercial	centre		
¿A qué hora? At wh	nat time?		
a las	at	seis y media	half past six
seis	six o'clock	siete menos cuarto	quarter to seven
seis y cuarto	quarter past six	siete menos diez	ten to seven

Lo siento, no puedo	I'm sorry, I can't		
¿Quieres salir?	Do you want to go out?	pasear al perro	walk the dog
Tengo que	I have to	salir con mis padres	go out with my parents
cuidar a mi hermano	look after my brother	No quiero.	I don't want to.
hacer los deberes	do my homework	No tengo dinero.	I don't have any money.
lavarme el pelo	wash my hair	No puede salir.	He/She can't go out.
ordenar mi dormitorio	tidy my room		
¿Cómo te preparas?	How do you get read	ly?	
¿Cómo te preparas	How do you get ready	Me visto.	I get dressed.
cuando sales de fiesta?	when you go to a party?	Me maquillo.	I put on make-up.
Me baño.	I have a bath.	Me peino.	I comb my hair.
Me ducho.	I have a shower.	Me aliso el pelo.	I straighten my hair.
Me lavo la cara.	I wash my face.	Me pongo gomina.	I put gel on my hair.
Me lavo los dientes.	I brush my teeth.		
¿Qué llevas normalmente	What do you normally	una gorra	а сар
los fines de semana?	wear at weekends?	unos pantalones	some trousers
Normalmente los fines	At weekends I normally	unos vaqueros	some jeans
de semana llevo	wear	unas botas	some boots
una camisa	a shirt	unos zapatos	some shoes
una camiseta	a T-shirt	unas zapatillas de deport	e some trainers
un jersey	a jumper	¿Vas a salir esta noche?	Are you going to go out
una sudadera	a sweatshirt		tonight?
una falda	a skirt	Voy a ir al/a la	I am going to go to the
un vestido	a dress	Voy a llevar	I'm going to wear

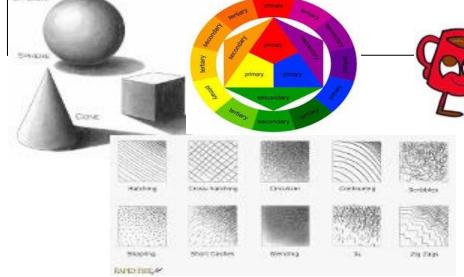
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Art Powerful Knowledge

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Term	Definition
Shade	A shade is where an artist adds black to a colour to darken it down. A tone is where an artist adds grey to a colour.
Illustration	Drawings in books and visualisations made by an artist, such as a drawing, sketch, painting, photograph.
Observational Drawing	Observational drawing is drawing what you see. It's as simple and as complicated as that. Drawing what is in front of you.
Graphic Design	The art of selecting and arranging visual elements—such as typography, images, symbols and colours—to convey a message to an audience.
Perspective	Perspective in art usually refers to the representation of three- dimensional objects or spaces in two dimensional artworks. It creates depth.
Form	An element of art that is three-dimensional and encloses. volume; includes height, width AND depth (as in a cube, a sphere, a pyramid, or a cylinder)
Gradient	Is the gradual blending from one colour to another colour or shade dark- light





Food Technology Powerful Knowledge

Y8

COMPOSITE FOOD

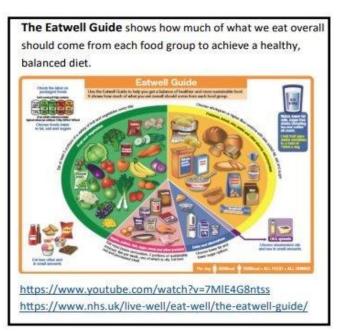
Much of the food we eat is in the form of dishes or meals with more than one kind of food group in them. For example, pizza, casseroles, pies, lasagne and sandwiches are all made with foods from more than one of the five food groups. These are called COMBINATION or COMPISITE foods.

Starch gelatinization is a phenomenon in which the starch granules primarily absorb water, swell and eventually burst out to form a gel in the presence of water and heat.

Heat starch granules in liquid Starch granules become swollen T'm swelling up Starch granules become swollen The liquid thickens and gelatinizes Starch gelatinizes when heated in a liquid, producing a thickened liquid

Benefits of Eating Fruit

- Source of Vitamins.
- Source of Natural Sugars.
- Give us Energy.
- Source of Water.
- Source of Fibre.







Music Powerful Knowledge

What are we learning about?:

- A. What is an Orchestra?
- B. Keywords
- C. How do Brass and Percussion Instruments produce a sound?
- D. How do Strings and Woodwind Instruments produce a sound?

Keywords for this Half Term

Sonority Fanfare Articulation

A:

What is an Orchestra?

An orchestra is a large instrumental ensemble typical of classical music, which combines instruments from different families; Strings, Woodwind, Brass and Percussion.

Orchestras play a wide range of

repertoire, including symphonies, opera and ballet overtures, concertos for solo instruments, and as pit ensembles for operas, ballets, and some types of musical theatre.





B:	Keywords
Sonority	The individual sound of a Musical Instrument
Fanfare	Short musical flourish that is typically played by Trumpets
Articulation	The way a note should be played or sung

C.

How do Brass and Percussion Instruments produce a sound?



Brass players use their breath to produce sound, but instead of blowing into a reed, you vibrate your own lips by buzzing them against a metal cup-shaped mouthpiece.



A percussion instrument is a musical instrument that is sounded by being struck or scraped by a beater including attached or enclosed beaters or rattles struck, scraped or rubbed by hand or struck against another similar instrument.

D:

How do Strings and Woodwind Instruments produce a sound?

String Family



All stringed instruments make sound by vibrating.

Musicians make the strings vibrate by using a bow against them, or plucking them.

Woodwind Family



Woodwind instruments produce sound when the player blows air against a sharp edge or through a thin piece of wood called a reed, causing a column of air to vibrate. The instrument itself does not vibrate.





Y8

Drama Powerful Knowledge

Year 8 Drama Knowledge Organiser

Spring 2: THEATRE IN EDUCATION



What is Theatre in Education?

HOW CAN THEATRE BE USED TO **EXPLORE. INFORM AND EDUCATE?**







Theatre in Education (TIE) is theatre created for a particular age group or specific target audience. The aim of Theatre in Education is to educate the audience about a topic, issue or debate - while also entertaining them and **inspiring** them. TIE can also bring stories from history or literature to life.

How Theatre in Education Started

The ground-breaking TIE movement was pioneered in 1965 by the Belgrade Theatre

Company in Coventry.

It was developed for young people and used theatre and drama to create a range of learning opportunities for young people to explore political, ethical and moral issues in a safe environment.

They would tour local schools where they would perform short pieces of theatre and lead workshops that allowed students to explore important issues and ideas in active and creative ways.

The main elements

It's important for you to remember the following characteristics that typify TIE:

- There is a clear aim and educational objective running throughout.
- A small cast so actors must be versatile and often have to multi-role.
- A low budget so actors often play instruments too
- The production must be portable so the design is simple and representational.
- They explore issues from various viewpoints, so we can see the effect of an action upon a range of
- There is some level of audience involvement.
- They are rarely wholly naturalistic because direct address or narration is used to engage the audience.
- The costumes are simple and representational, especially if actors have to multi-role
- They may include facts and figures to educate the
- They may have a strong message or moral running



"Theatre is a form of knowledge; it should and can also be a means of transforming society. Theatre can help us build a future, rather than just waiting for it." Augusto Boal



Drama Keywords:

Flashback/ flashforward open the play with a significant everything goes wrong and then flash back to the event leading up to it. OR show someone making a poor decision and then flash back to that moment and have them make the right decision, show how much better everything works out

Choral Narration when the group of perfomers speak together

Physical Theatre again this is a good way to have everyone involved and if you need objects like Cars in your play, its a lot more interesting that just using 2

Monologue A great way to get sympathy for a character is to get them to directly address the audience.

Thought in the head The character could either explain their own thoughts, or other actors could speak the Perhaps creating an angel/ devil on the shoulder idea.

Conscience alley A rehearsal technique to develop understanding of characters. It involves each character going down the alley one after the other, and everyone else still being 'in role' as their character.

Montage/ Split scene this will allow you to show many events at once, rather than having to set up lots of different scenes- eg if a character tries drugs, you can show them taking progressively stronger drugs over a period of time in one scene. Or using a split scene, you can show the consequences of making the right and the wrong decision, showing both outcomes at the same

Placards written messages to the audience, could be statistics or references to real life events- or help present the character's dilemma





I.T. Powerful Knowledge

Term	Definition
Select	A set of symbols used in writing and printing. For example, 'A,B.C.D'.
Assets	Mathematical symbols used to represent quantities or values.
Graphics	Characters or marks, for example '\$"!%^&*'
Trim	Something that is restricted to a particular person or group and not for public access or knowledge.
Formatting	Individual symbols (letters, numbers, punctuation) that form text.
Animation	Unique identifiers used to access a computer system or online account
Target Audience	A user-specific record on a system or service



Software

Premiere Pro: A professional video editing software used for creating and editing video content.

Photoshop: A graphic design and photo editing software used for manipulating images and creating digital art.

Illustrator: A vector graphic design software used for creating illustrations, logos, and scalable artwork.



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I.T. Powerful Knowledge

Target Audience - Target audience refers to a specific group of people a business aims to reach with its products. This group is defined by characteristics like age, gender, interests, and needs.

Purpose – The purpose is the reason for your webpage – What is it for? You should make sure your website page meets its purpose.

Copyright – You should only use images that are copy right-free. Many images are owned by people/companies and cannot just be reused.

2. The Internet

a) Web Browser 🔃



Software used to access the internet e.g. Microsoft Edge, Google Chrome

b) Website VouTube

Set of web pages under a single domain name e.g. https://www.youtube.com

c) Publish

Releasing a website onto the world wide web

d) WWW - world wide web

A giant network of connected computers. Uses HTTP protocol to transfer webpage data to your computer

e) Tim Berners-Lee

Invented the world wide web

f) Protocol

Set of rules (like the highway code for data) so information travels around the web getting to the right destination without data loss

g) URL - uniform resource locator

The address of your site e.g. http://www.bbc.co.uk

3. Creating Websites

a) HTML

The main language 'code' for webpages

It provides the structure of the page

b) CSS

Used to format the layout of the webpage

c) Tags

Code which commands how a browser displays text and image

d) DIV tags

Code which is used to split a webpage into different sections

e) House Style

Having the same consistent style throughout all pages of a website, such as colour scheme

f) HTML < html>

All html code for a webpage is positioned between the <head>...</head> tags

g) Body <body>

All web page content (text, images, etc) is positioned between the < body >...</body> tags



"Opening Children's Eyes to the Wonderful World of Possibility"



HT1

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PE-Orienteering

A competitive sport in which runners must find their way across rough country with the aid of a map and compass.

Key Skill or Term	Description
Orientating a map	Being able to rotate your map to face north.
Navigate	Using a map to plan a route.
Catching features	Be able to identify catching features – an identifiable point or boundary on a map used to navigate to control points. E.g. Buildings, trees, fences.
Line features	Be able to identify line features – anything linear (makes a line) on a map used to navigate to control points. E.g. Rivers, paths, tracks, roads.
Map reading	Understanding features and being able to use a legend (key).
Control	What the competitor is looking for! A course consists of visiting a sequence of controls each of which is marked by a circle on the map. At each control you will find an orange and white "kite" and a punch and possibly an electronic control box.









PE - Indoor Cricket



Scoring

The aim for the batter in cricket is to try to score as many runs as possible throughout their innings. To score a run requires the batter to strike the ball and run to the opposite end of the pitch while their batting partner runs in the other direction. In situations where the fielding team has not recovered the ball, the batters can return back to score two or more runs. It is also possible to score runs without running the length of the pitch, if a batter can hit the ball past the boundary line (four runs) or over the line without bouncing (six runs).



Fielding positions