

Knowledge Organisers Year 7 – Term 2

How to complete your Knowledge Organiser Homework

Learning is an active process, just reading the information will not be enough

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CHORNER	LENDALET.
Mauns	
STEOGRAPHY	

Each day, in your Knowledge Organiser book, you must write the date at the top and then draw a line to divide the page in half using a ruler.

Use the top half of the page for one subject and the bottom half of the page for the other

You can use some of the techniques you have been taught;

- Look, cover, write, correct, repeat
- Mind maps
- Word Up
- Flashcards

(YouTube channel – Woodrush Online)

Key Points

- Each night you should spend 20 minute learning the information from the knowledge organisers for 2 subjects as set out in your planner
- You should also read your book each night

FORM:

- You must have evidence of your work in your knowledge organiser exercise book (reading the knowledge organisers is not enough!)
- Your learning of the information will be checked in your lessons
- Your parent/carer must sign your planner each week to confirm that you have been completing your homework
- You may be given option homework to complete but this is not compulsory (but worth lots of achievement points!)





Travel and Places

Key Terms	Persuasion	Using language to convince someone to agree with your views, or perhaps to buy something or go somewhere.	Fact and opinion	A fact is something that is true and can be proven. An opinion is a belief or viewpoint that someone has which is not a fact.
le - Aller	Purpose	The reason that a piece of writing has been created. This can be to inform, advise, persuade, argue, or entertain.	Statistics	Using numerical data to support a fact. For example, you could give a fraction or a percentage based on a survey.
	Rhetorical question	Using a question in a speech or piece of writing which does not require an answer. Rhetorical questions are used to encourage the reader or listener to consider an idea.	Sentences	A sentence must contain a subject and a verb. It must begin with a capital letter and end with a full stop.
	Direct address	Using 2 nd person pronouns (such as 'you' and 'your') to directly address the reader or listener. This can make a text seem more personal and therefore more persuasive.	Clause	A clause is an element of a sentence which contains a subject and a verb. A clause can be main or subordinate.
Types of non- fiction travel	Triads	Using 3 consecutive words or phrases to describe an idea. For example, <i>"The resort features stunning beaches, excellent entertainment, and spectacular views."</i>	Emotive language	Using language that will give the reader or listener an emotional response. For example, charity campaigns might use phrases to make the reader feel upset.
text				

Brochure	 Produced by the travel company with the purpose to persuade There will be positive language such as adjectives and triads. The design will be colourful and attractive, and feature lots of photographs. 	 The main purpose is to inform but companies will also use lots of language to persuade. Will look bright and attractive and feature photographs and images such as maps. A website will also contain links and may have interactive functions such as a 'chat' window.
Review	 Written by someone who has visited a destination such as a hotel, resort or restaurant The purpose is to inform other potential travellers, and to give positive or negative feedback to the place being reviewed. Will contain lots of opinions. 	 A book which is published to inform and advise the reader about a destination. Will contain lots of positive language . There will also be some language to advise such as conditional clauses. There will also be practical information such as prices, locations and opening times.
Blog	 An online post, either on its own website or published on another website. Similar to a diary, they are usually informal and contain lots of opinions. The purpose is to inform, although some companies might use blogs to parsuade. 	 Similar to an autobiography but focuses on specific experiences such as travel. Memoir Memoirs are very personal so will be written in 1st person and might use humour to entertain. They might also use descriptive language to describe places and feelings.
Leaflet	 A short text which informs potential visitors about an attraction such as a museum, historical site, or zoo. The design will be colourful and attractive, and feature lots of photographs. It will be organised in clear sections so it is easy to read. 	 Some customers may write letters or formal emails to complain after a negative holiday experience. Should be formal. Should be organised using paragraphs and formal discourse markers. There should be a formal salutation (e.g. Dear Head of Customer Services) and sign-off (name = yours sincerely, no name = yours faithfully)



Sentence Types

Simple

This is a sentence which has just one main clause.

They are sometimes used to create a dramatic effect or to add emphasis to a specific idea.

Compound

A sentence which contains two or more main clauses linked with a coordinating conjunction.

The coordinating conjunctions are below.. These are easy to remember as they spell 'FANBOYS':

for, and, nor, but, or, yet, so

Complex

A sentence which contains at least **one subordinate clause**. These are linked by **subordinating conjunctions** such as:

although	before	now that	unless	
as	even if	provided	until	
as if	even though	since	when	
as long as	how	so that	whenever	
as much as	if	than	where	
as soon as	in as much as	that	wherever	
as though	in order that	though	while	



SPaG

Connectives

Similarities	Differences	Sequencing	Cause and Effect
Also	However	At first	Therefore
In Addition	On the other hand	Secondly	Consequently
Additionally	But	Next	As a result
Moreover	Juxtaposing this	Then	Because of this
Furthermore	In contrast	After that	This causes
Likewise	Contrastingly	In due course	This results in
Similarly	Although	Finally	Hence
In the same way	Whereas	Eventually	Thus
Comparably	Alternatively	In the mean time	Accordingly
Along the same lines	On the contrary	Meanwhile	For that reason
Much like	In opposition	Simultaneously	

Extension: Types of subordinate clause

Clause Type	What are they?	Example
Relative	Give more information about the main noun in the sentence. Usually start with a wh- word such as who or which.	The giant panda, <u>which is</u> native to China, has been close to extinction for many years.
Adverbial	Give information about the main verb in the sentence: how, where, why or when.	Although she was busy, she helped her friend with her homework. Before I go, I need to pack my suitcase.
Conditional	Give a condition that the rest of the sentence depends on. These usually start with 'if'	If you love adventure, then you could try booking a mountain trek.



Transformations



MATHS

3D shapes

Properties of 3D shapes

Faces, Edges and Vertices		
Faces The flat surface of a 3-D shape		
Edges	Where two Faces meet	
Vertices Where two or more edges meet at a		

Shape	Faces	Edges	Vertices
Cube	6	12	8
Cuboid	6	12	8
Triangular Prism	5	9	6
Pentagonal Prism	7	15	10
Square based Pyramid	5	8	5
Cone	2	1	1
Cylinder	3	2	0
Sphere	1	0	0







Expressions and Formulae

Algebraic Notation

Algebra is the language we use to communicate mathematical information.

Letters used to represent values are known as variables.

Notation creates shortcuts:

$$a \times b = ab$$

$$x + x + x + x = 4x$$

$$y \times y = y^{2}$$

Numbers, symbols and operators (such as + and \times) grouped together that show the value of something.

e.g.
$$6xy - 5\frac{a}{b} + 21x$$
 is an expression

Each individual part is a term.

Eg. 6xy $-5\frac{a}{b}$ 21x

The same rules of BIDMAS applies to Algebra.

Collecting like terms

Collecting like terms enables us to simplify expressions making them easier to use. Terms that contain the exact same variable can be classed as 'like' terms and be simplified. Be careful of the signs in front of the variable!

$$5x + 6y - 2x - 5y = 3x + y$$

$$5xy + 3x - 2xy + 4y = 3xy + 3x + 4y$$

$$2x^2 + 3x + 5x^2 - 5x = 7x^2 - 2x$$

Formulae and algebra

A formulae explains how to calculate the value of a variable. e.g. 'The price of a taxi fare in Manchester depends on the distance driven. Each fare is charged a flat fee of £2 and then £3 for each mile driven.'

C= 2 + 3M

If you travel 20 miles then you would calculate the cost by doing $2 + 3 \times 20$

 $Cost = \pounds62$



Expressions and Formulae



Factorising an expression		
Look at whole expression, identify HCF and divide out		
12x - 6y + 3z HCF = 3		
3(4x - 2y + z)		
ax + aby + 4az HCF = a		
a(x+by+4z)		

Look at each term separately, divide numbers first then the algebraic terms

Key terms

Variable	- varying quantity represented by a letter or symbol, e.g. x
Constant	 a fixed quantity that does not vary, e.g. a number
Coefficient	• a number which multiplies a variable, e.g. 5x
Exponent	 shows the number of times a variable or number is multiplied by itself, e.g. y⁴ = y x y x y x y
Operator	 a symbol indicating what operation must be done, e.g. + - x ÷
Term	 one part of an expression which may be a number, a variable or a product of both, e.g. 5x² 4xy 12
Expression	• one or a group of terms. May include variables, constants, operators and grouping symbols e.g. $5x^2 + 2x(x + 2) - 8$



X

Equations





Sequences







B2 Respiration and Photosynthesis

Photosynthesis

Photosynthesis a chemical reaction that plants use to make food (glucose)

Photosynthesis takes place in the **chloroplasts** of plant cells.

Chlorophyll is a green pigment found in chloroplast that is needed for photosynthesis



Oxygen(O2)

Energy

Factors that affect the rate of photosynthesis are;

- · Light intensity
- Temperature
- Carbon dioxide concentration Water from soil

Respiration

Respiration is a chemical reaction that breaks down **glucose** to make **energy**

Respiration takes place in the mitochondria

Aerobic respiration (when oxygen is present)



Anaerobic respiration (when oxygen is absent)

glucose 🗲 lactic acid (+ energy)

Lactic acid is a toxic chemical that causes muscle fatigue and cramps

Oxygen debt is the amount of oxygen required to break down the lactic acid

Structure of a leaf	Chloropla
Cuticle Epidermis	Palisade mesophy
Palisade mesophyll	Waxy cut
Spongy mesophyll Vein Lower Epidermis	Stomata
Stomata	Guard ce

	Chloroplast	Contains chlorophyll to absorb light in photosynthesis.
e mis	Palisade mesophyll	Layer at top of the leaf. Contains lots of chloroplasts to absorb as much light as possible.
le hyll	Waxy cuticle	Reduces water loss. Allows light through as it is transparent.
mis	Stomata	Holes in the bottom of leaves to allow gas exchange of oxygen and carbon dioxide.
11115	Guard cells	Open and close stomata to control gas exchange.

Comparing Aerobic and Anaerobic Respiration

Aerobic	Anaerobic
Uses oxygen	Doesn't use oxygen
Uses glucose	Uses glucose
Produces carbon dioxide and water	Produces lactic acid
Used in low intensity exercise	Used in high intensity exercise
Produces a lot of energy	Produces a small amount of energy
Occurs in the mitochondria	Occurs in the mitochondria

Investigating Heart Rate and Breathing Rate

Heart rate is the number of times the heart beats in one minute.

To measure your heart rate

- find pulse on wrist or neck,
- count how many beats there are in 10 seconds
- x 6 = beats in I minute.

Breathing rate is how many breaths you take in one minute

To measure your breathing rate

- count how many breaths you take in 10 seconds
- x 6 = beats in 1 minute

Exercise increases heart rate and breathing rate to pump more oxygen to the muscles.



C2 Atomic structure

Proton Proton Electron Proton Electron Proton Proton Electron	e Charge +1 on 0 on -1	Relative mass110.0005	This Can Can Firs Can	rd shell hold up to 8 electrons ond shell hold up to 8 electrons t shell hold up to 2 electrons	Reactivity Some metals are more reactive than others. The easier it is for a metal to lose its outer electrons, the more reactive it is. The most reactive metals are found in group 1 (the alkali metals). They react with cold water to produce Hydrogen and an alkaline solution
Dmitri Mendeleev	Group 1 (alkali metals) Period 1 Period 2 Period 3 Na Mg	Transition metals (les	Group 0 (inert gases)	Properties of metaLustrousSDuctileCMalleableCElectrical conductDenseHThermal conductoSonorousM	als hiny when polished or cut an be drawn into wires an be hammered into sheets and flexible or Allows electricity to pass through it igh mass for its size or Allows heat to pass through it fakes a ringing sound when struck
Dmitri Mendeleev (1834-1907) was a Russian chemist. In 1869 he made an early version of the Periodic table that was farsighted and more successful than previous versions. He arranged elements in order of atomic mass but put elements with similar properties into vertical groups. This meant that there were gaps in some of the rows but Mendeleev said that the	Period 4 Period 5 Period 5 Period 6 Period 7 Period 7 Period 7 Period 7 Period 7 Period 8 Period 9 Period	AND	Non-Metals Metals Non-Metals	Group number = Period number = ns or gained electro st electrons ained electrons	Number of electrons in the outer shell Number of occupied shells ns in order to have a full outer shell of
gaps were for elements that had not yet been discovered and he was able to predict their properties	ement name	ement – a substa	sotopes – forms of an element than numbers of neutrons (so different r ance made up of only one type of a	at have the same numbers)	mber of protons but different

Period number = Number of protons and neutrons

Compound – a substance made up of 2 or more elements chemically joined together



P2 Energy and Space

Keywords

Electrostatic	a build up of charge, like in a storm cloud
Nuclear	Energy store found in radioactive substances and the sun
Gravitational potential	Energy store an object has at a height
Elastic potential	Energy store an object has when it is bent or stretched
Thermal	Heat energy
Chemical	Energy store in a battery or a fuel
Kinetic	Energy of movement
Mechanical work	Any time a force is applied
Radiation	Light, sound, infrared and any other wave
Heating	Movement of heat through particles
Electrical work	The flow of electricity
Power	The rate of energy transfer
Non-renewable	A source of energy that will run out
Renewable	A source of energy that will not run out
Hydroelectric	Generating electricity from the flow of water (usually by building a dam)
Biofuels	Generating electricity by burning dead plants and animals
Geothermal	Generating electricity using the Earth's heat
Solar system	The sun and the planets and dwarf planets that orbit around it
Heliocentric	The planets all go around the sun (as opposed to the sun going around the Earth)

Energy transfer diagrams

Energy transfers can be described using a diagram.

Store \rightarrow Transfer \rightarrow Store



Days and seasons

The Earth **spins on its axis**. This is why we have **night and day**.

The Earth is **tilted** on its axis. The half of the Earth tilted **towards the Sun** has **summer**. The half of the Earth tilted **away from the Sun** has **winter**.



Important groups

The 8 stores of energy: Magnetic, electrostatic, nuclear, gravitational, elastic, thermal, chemical, kinetic (MEN GET CK)

The 4 ways of transferring energy: Mechanical work, radiation, heating, electrical work (MR HE)

The 3 fossil fuels: Coal, crude oil and natural gas

5 Renewable resources: Solar, Wind, Hydroelectric, biofuels, geothermal

The 8 planets in our solar system (in order): Mercury, Venus, Earth, Mars, Jupiter, Saturn, Neptune Uranus

Phases of the moon



History

Timeline of events

24 March 1603	James VI of Scotland is crowned James I of England after the death of Elizabeth I
5 Nov	The Gunpowder Plot, an attempt to
1605	blow up Parliament and kill the king,
	is foiled
1642	King Charles declares war on
	Parliament.
1642	Battle of Edgehill
1645	Battle of Naseby
1649	Trial of Charles I
1649	Execution of Charles I
1653	Cromwell became 'Lord Protector' of
	England



<u>Who?</u> A group of Catholics led including Guy Fawkes, Robert Catesby Thomas Winter, Thomas Percy, and John Wright.

What? Plotted to kill the King of England (James I) by blowing Parliament up

 $\underline{\textbf{Where?}}$ A cellar under the House of Lords, Parliament, Westminster London

When? 5th November 1605. This was State Opening day, when the King, Lords and Commons would all be present in the Lords Chamber to open parliament.

Why? Guy Fawkes was one of a group of Catholics who felt that the government was treating Roman Catholics unfairly. They hoped that King James would change the laws, but he didn't. Catholics had to practise their religion in secret. There were fines for people who didn't attend the Protestant church services on Sunday or on holy days. James passed more laws against the Catholics when he became king. These Catholics wanted to get rid of this anti-Catholic king.

The Gunpowder Plot, 1605

Were the conspirators framed?

Framed		Guilty
Robert Catesby, owing Westminster,	Evidence given under torture is notoriously unreliable - people will say anything to stop the pain	Guy Fawkes was a Dutch explosives expert - why would he have come to England if not to use explosives?
y, when the ords Chamber felt that the y hoped that	James I's Chief Minister, Robert Cecil, was notorious for his hatred of Catholics	Gunpowder was not normally kept in the cellar below Parliament - it must have been put there by someone!
lics had to ple who didn't holy days. became king. ng.	All gunpowder was kept under guard in the Tower of London. However, the records for 1604 have gone missing	The conspirators confessed to the plot - albeit under torture

The English Civil War

Key Vocabulary:

Roundhead	Nickname for the parliamentary soldiers (from their haircut)
Cavalier	Nickname for the soldiers in the royalist army
New Model Army	New and improved parliamentary army with excellent training and character
Treason	The crime of betraying your country
Puritan	Protestants who wanted to 'purify' the Church of England from its Catholic ways

The New Model Army:

Early setbacks in the Civil War forced Parliament to build a new army that would be a match for the royalists:

Religious zeal	Soldiers waved banners with bible verses on and charged into battle singing hymns. They believed that they fought for God's cause
Strict discipline	Cromwell taught his men to follow orders at all costs. They won battles through discipline and training
Chosen for talent	Cromwell asked for men of belief and talent, rather than the wealthy gentlemen officers in the royalist army
Belief in the cause	Soldiers of the new army really believed that they were fighting to create a fairer society.

The Trial of Charles I:

The trial of King Charles was controversial. The debate about how fair it rages to this day.

Fair Trial	Unfair Trial
The trial had a qualified judge, John Bradshaw and witnesses were called	There was no law to say that the government could execute the King - one had to be written specially
The King was given time to speak but chose not to	King Charles was not allowed to question the witnesses
The King was allowed to plead 'guilty' or 'not guilty'	The judge was a friend of Cromwell and was given a well-paid job after the trial

History

Factory working conditions

for machinery.

Long working hours: normal shifts were usually 12-14 hours a day, with extra time required during busy periods. Low wages: a typical wage for male workers was about 15 shillings (75p) a week, but women and children were paid much less, with children three shillings (15p). For this reason, employers preferred to employ women and children. Cruel discipline: there was frequent "strapping" (hitting with a leather strap). Other punishments included nailing children's ears to the table, and dowsing them in water butts to keep them awake.

Accidents: forcing children to crawl into dangerous, unguarded machinery led to many accidents and deaths. Health: The air was full of dust, which led to chest and lung diseases and loud noise made by machines damaged workers' hearing.

Living conditions

Overcrowding: due to large numbers of people moving to the cities, there were not enough houses for all these people to live in.

Disease: typhus, typhoid, tuberculosis and cholera all existed in the cities of England. Overcrowding, low standard housing and poor quality water supplies all helped spread disease.

Waste disposal: gutters were filled with litter. Human waste was discharged directly into the sewers, which flowed straight into rivers.

Poor quality housing: houses were built very close together so there was little light or fresh air inside them. They did not have running water and people found it difficult to keep clean.

Lack of fresh water: people could get water from a variety of places, such as streams, wells and stand pipes, but this water was often polluted by human waste.

This discovery saved millions of lives

Key Terms:

Industrial Revolution

PopulationThe number of people living in a particular placeInventionSomething new which is created, can be an object or an ideaEconomyThe system of how money is used within a particular countryPovertyThe lack of basic human needs such as clean water, nutrition, healthcare, education and shelter	Industrial revolution	A time of great change in Britain between 1750 to 1900
InventionSomething new which is created, can be an object or an ideaEconomyThe system of how money is used within a particular countryPovertyThe lack of basic human needs 	Population	The number of people living in a particular place
EconomyThe system of how money is used within a particular countryPovertyThe lack of basic human needs such as clean water, nutrition, healthcare, education and shelter	Invention	Something new which is created, can be an object or an idea
Poverty The lack of basic human needs such as clean water, nutrition, healthcare, education and shelter	Economy	The system of how money is used within a particular country
	Poverty	The lack of basic human needs such as clean water, nutrition, healthcare, education and shelter

Important individuals of the Industrial Revolution

Robert Peel	Isambard Kingdom Brunel	John Snow	Edward Jenner	Seebohm Rowntree
A A A A A A A A A A A A A A A A A A A				
Created and supported the Factories Act of 1844 which restricted the number of hours that children could work in factories as well as setting safety standards	One of the most influential engineers of the Industrial Revolution. Brunel built railways and ships and opened up Britain to a new petwork of industry	Snow was an English physician who discovered that the water in his local area was making everyone ill. His work led to the discovery of cholera and	Jenner discovered vaccination in 1796. he discovered that if you placed a small amount of disease in a human they were then able to fight it off in the future	Rowntree was a English sociological researcher. He researched people living in poverty and argued that the government needed to do more to help them

improved fresh water for

thousands

Key Inventions:

Spinning engine invented in 1764 by James Hargreaves
1712, Thomas Newcomen invented the first steam engine
Introduced commercially in 1776 and became the basis for future developments that saw the steam engine become the main source of power for a large variety of British industries
The first recorded steam railway journey took place on 21 February 1812
25 July 1837 the first electrical telegraph that was installed between Euston and Camden Town in London.



My Place: Rivers and Coasts



Key Processes

Abrasion- River beds and cliffs are scraped away by pebbles and sand like sandpaper.

Attrition- Pebbles and stones bash together and become smaller and rounder.

Hydrualic action- The power of the water breaking off bits of rock.

Traction- Pebbles roll along the river bed or beach

Saltation-Sand bounces along the beach

Solution- Smaller pieces of rock eventually dissolve within the water.

Deposition- Rocks, sand and clay are "dumped" after water retreats or slows down.



is pushed along a

into the sea

prevailing wind

beach and deposited

Coasts: What is a wave

These are created when wind pushes water towards the coastline. The longer and stronger the winds are the bigger the waves are.







Waves make coastlines weaker because of erosion. Firstly cracks appear, then Caves, Arches, stacks and finally stumps!



Our Future World: Part 1

Key terms

Food miles- The distance food travels from farm to fork

Water Scarcity- Where there little water because more is being used than is available

Food insecurity- Where there is a risk of food running out is higher than supply

Natural increase- Where a country experiences more births than deaths- the country has a natural increase in population

Birth Rate- The number of babies born per 1000 of the population

Death rate- The number of deaths per 1000 of the population

Megacity- A city with over 10 million people

Anti Natalist policy- A country is attempting to persuade people to have less children

Pro Natalist policy- A country is attempting to persuade people to have more children

Urbanisation- The percentage growth of people in cities (urban) areas, compared to the countryside (rural areas)



•

 In 2030, SOUTH AMERICA and AFRICA will experience an increase in megacities

suitable to grow some foods

Some people are angry at how

animals are treaded during the

production of food

- *In 2030, most of the world's Megacities will be in INDIA and CHINA*
- EUROPE and NORTH AMERICA will not have any more megacities because cities in richer countries are not growing.



These are important because they show us how many males and females there are per age group. It's a way we can monitor how future population within a country might change

The Impact of our food

Growing population means we have to destroy farmland to grow more food



Chemicals (pesticides) released during farming can pollute our water supplies

Food that travels a long way contributes a lot of CO2 to the Atmosphere

The UK does not always pay a fair price for food



Key terms

LIC- Low income country

HIC- High income country

Water surplus- When a country has more water than it needs

Water deficit- Where a country has less water than it needs

Water stress- The risk of water shortages

Renewable energy- Energy that never runs out (wind/ sun/ tidal)

Fossil fuels- Fuel made from dead plants and animals over millions of years

Fracking- gas that is trapped inside rock underground is extracted by cracking the rock

How does food affect LIC's?

1) Rising global temperature is causing pests and diseases to spread into new areas

2) Regions with hot temperatures and poor rainfall experience struggles to produce food.



3) The poorest areas of the world lack the technology to farm efficiently. This means they cannot produce enough food.4) As deserts spread, it becomes harder to find water to help crops grow.

World problems associated with water

- Diseases like **Cholera** and **typhoid** can be caught from dirty water.
- People in poor villages **lack the skills to develo**p clean water infrastructure such as water purification units.
- People in poorer countries often do not have the training to **fix pipes and leakages**.
- Many people in poor countries have **no way of storing water**.
- Human waste can end up contaminating water supplies.

How do charities solve world water problems?

Engineers without borders

Build water stations in LIC's and train new water technicians.







Provide, wells, clean water and sanitation in many parts of Africa.

Just a drop

Build sand dams to trap water in deserts, harvest rainwater so that it can be used in households.

How is UK electricity supply changing?

The UK uses much less coal and oil than in 2009.

The UK produces more solar and wind Energy for electricity.

However the UK now produces nearly 40% of electricity from natural gas.

Over the past 10 years our electricity production from nuclear has slightly increased.



Our Future World: Part 2

Life of Jesus

The Birth of Jesus

R.E.

The Jesus of history was a child of a Jewish family living under a foreign regime. He was born into an extended family living away from home and his family fled from a king who sought to kill him because he posed a political threat.

The actual birth day of Jesus was not December 25. The date we celebrate was adopted by the Christian church as the birthday of Christ in the fourth century. Prior to this period, different Christians celebrated Christmas on different dates.



Only two of the four gospels in the Bible discuss Jesus's birth. Luke recounts the story of the angel Gabriel appearing to Mary, the couple's journey to Bethlehem because of a census and the visit of the shepherds.



Matthew's gospel tells a similar story about Mary's pregnancy but from a different perspective. This time, the angel appears to Joseph to tell him that his fiancée Mary is pregnant but he must still marry her because it is part of God's plan.

Where Luke has shepherds visit the baby, a symbol of Jesus's importance for ordinary folk, Matthew has magi (wise men) from the east bring Jesus royal gifts.

Palm Sunday

On Sunday of Holy Week Jesus entered Jerusalem. He rode on a donkey. Many people were there. They took branches and waved them. Some took off their coats and laid them on the road. Then Jesus went to the temple. When He got there, He threw out the people who exchanged money saying 'My house will be called a house of prayer,' but you're turning it into a gathering place for thieves"



Holy Week



Maundy Thursday In the evening Jesus shared a special meal with His friends. Christians call this meal The

Lord's Supper.

Jesus passed round bread and wine. He said the bread was his body broken for them and the wine was his blood shed for them.

Then Jesus went with His friends and followers to the Garden of Gethsemane. Judas, kissed Jesus on the cheek. This was a sign to tell the guards who they were to arrest.

Good Friday

they took Jesus to the Roman governor, Pontius Pilate. They told Pilate that Jesus should die because He claimed to be "the Messiah, the Son of God" . Pilate finally agreed to it. After the soldiers made fun of Jesus, they led Him to Golgotha. That's where they crucified Him. On the cross Jesus had cried out in a loud voice, 'Father, into your hands I commend my spirit.' With these words he breathed his last."



Easter Sunday - The Resurrection

On the Sunday after Jesus' death, two women, one being Mary Magdalene, were visiting his tomb.

They saw the stone had been rolled away from the entrance of the tomb.

The angel told the women not to be afraid, that Jesus was not there for he had risen. This meant that Jesus was alive! The angel told them to go quickly and tell Jesus' friends that he is alive.



On their way back suddenly Jesus met them and said "Do not be afraid. Go and tell my brothers to go to Galilee, there they will see me"

Then the eleven disciples went to Galilee. When they saw him, they worshiped him. Jesus came to them and said,

"All authority in heaven and on earth has been given to me. Therefore go and make disciples of all nations, baptizing them in the name of the Father and of the Son and of the Holy Spirit."

Life of Jesus



The Twelve Disciples

The 12 Disciples (also known as Apostles) were Jews, uneducated commoners, and simple men of faith who gave up everything to be followers of Christ.

Jesus spent three years training these men to be leaders. Jesus' plan was to eventually have the disciples take over and carry on the work he had started.

One of the most famous depictions of Jesus and his disciples is by Leonardo da Vinci, in his painting The Last Supper;



- **Peter** (who Jesus called 'his rock') was a gregarious, natural leader, and an obvious spokesperson for the twelve. Peter is well known for denying Christ three times after Christ was arrested.
- Andrew, was present when John the Baptist said, "Behold, the Lamb of God!" (John 1:35) Andrew was the first to follow Jesus.
- John is known as the "disciple Jesus loved". He wrote a large portion of the New Testament.
- **James** was the elder brother of John and was one of Jesus' closet friends (along with Peter and John).
- Phillip was a fisherman and worked alongside James and John.
- Bartholomew was also known as Nathanael.
- **Thomas** is often known as 'Doubting Thomas' because he did not believe that Jesus could be resurrected.
- Matthew was a tax collector, the most despised people in all of Israel.
- James the less (minor) is barely mentioned in the bible.
- Simon was known as 'the Zealot' because of his passion and loyalty when preaching God's word.
- Thaddeus was the brother of Simon.
- Judas Iscariot is known as 'the Traitor' because he betrayed Jesus for 30 pieces of silver by telling the Romans where he could be found.

Jesus' Childhood

Luke 2:40 gives a summary statement describing Jesus' development from infancy to age 12:

"And the Child grew and became strong in spirit, filled with wisdom; and the grace of God was upon Him."

Every year Jesus and his family go to Jerusalem for the Passover. It's a long trip from Nazareth to Jerusalem, it takes them about three days to get to Jerusalem and it common for children to travel with other families or friends.

When Jesus is 12, May and Joseph realise he is not with the m on the journey home, so they return to Jerusalem to look for him there.



At last they find Jesus here with the teachers. He is listening to them and asking questions. And all the people are amazed at how wise Jesus is.

But Mary says: 'Child, why have you done this to us? Your father and I have been very worried trying to find you.

"Why did you have to look for me?' Jesus answers. 'Didn't you know that I had to be in the house of my Father?'

The Baptism of Jesus

John was a prophet God called to announce the arrival of Jesus, Many people went to see John to confess their sins and be baptized by him.

The people gathered on one particular day. John began to tell them about their need for a Saviour.

He waded into the water to invite those who wanted to be baptized to come. Then the crowd parted, and Jesus came to be baptized!

At first, John was so humbled he said, "I need to be baptized by you, and you come to me?"

But Jesus insisted. Even though Jesus did not need to repent because He never sinned, His baptism showed that Jesus would take the punishment for our sin.



Spanish 😵



Where I Live

MC	DDEL TEXT	
1	Vivo en una casa pequeña en Wythall con mis padres.	I live in a small house in Wythall with my parents.
2	Me gusta mi pueblo porque es tranquilo.	I like my town because it is calm.
3	En mi pueblo hay un cine pero no hay playa.	In my town there is a cinema but there isn't a beach.
4	El fin de semana pasado fui al cine y fue asombroso.	Last weekend I went to the cinema and it was amazing.
5	En el futuro me gustaría vivir en España porque sería emocionante.	In the future I would like to live in Spain because it would be exciting.

LINE 1: Mi casa - My house Type of With Who Verb Adjective Where house en Wythall Vivo en un piso con grande (big) mi familia (my family) (I live in) (in Wythall) (a flat) (with) pequeño (small) mi madre (my mum) moderno (modern) mi padre (my dad) viejo (old) mi abuelo (my grandad) mi abuela (my una casa grande (big) grandma) (a house) pequeña (small) mi hermano (my moderna (modern) brother) vieja (old) mi hermana (my sister) mis padres (my parents) mis abuelos (my grandparents)

LINE 2. Mi onir	nión – My o	ninion		
Opinion	Type of house	Because it is	Intensifier	Adjective
Me gusta (I like)	mi piso (my flat)	porque es (because is)	un poco (a bit)	tranquilo (calm) bonito (pretty)
Me gusta mucho (Lreally like)		,	bastante (quite)	histórico (historic)
Me encanta			muy (very)	animado (lively) moderno
No me gusta				(modern) ruidoso (noisy)
(I don't like) No me gusta nada (I don't like at all)	mi casa (my house)			teo (ugly) sucio (dirty)
				tranquila (calm) bonita (pretty)
Odio (I hate)				histórica (historic)
				moderna (modern) ruidosa (noisy)
				fea (ugly)
				Sucia (unity)

Did you know?

The Eiffel Tower was nearly built in Barcelona! The architect Gustave Eiffel originally pitched his proposal for Paris's iconic tower to the city of Barcelona. However, local officials rejected it, as they believed the tower would be unsightly.







Where I Live

LINE 3: L	os sitios -	Places	LINE 4: El fin de	semana pasa	do - Last weekend		
In my	Verb	Places in the town	When	Verb	Where	And it was	Adjective
village/ town			El fin de semana pasado	fui (I went)	al cine (to the cinema)	y fue (and it was)	divertido (fun)
En mi	hay	un cine (a cinema)	(Last weekend)		al estadio (to the stadium)		
pueblo (there (In my is) town)	(there	un estadio (a stadium)			al polideportivo (to the leisure centre)		emocionante
	is)	un polideportivo (a leisure			al parque (to the park)		
- /		centre)			al museo (to the museum)		asombroso
		un museo (a museum)			al restaurante (to the restaurant)		(amazing)
		un restaurante (a			a la biblioteca (to the library)		aburrido
		restaurant)			a la piscina (to the swimming pool)		(boring)
		una playa (a beach) una hiblioteca (a library)			a las tiendas (to the shops)		decepcionante
		una iglesia (a church) una piscina (a swimming		Activity			(disappointing)
				jugué al fútbol (I played football)			malo
		pool)		comí pizza (l ate pizza)		(bad)
		unas tiendas (some snops)		vi una pelícu	lla (I watched a film)		
	no hay	cine (a cinema)		salí con mis	amigos (I went out with my friends)		
(there estadio (a stadium)							
	15111)	polideportivo (a leisure	LINE 5: El futuro	- The future			
		centre)	When	Verb	Where	Verb	Adjective
		parque (a park)	En el futuro	me gustaria v (I would like to	ivir en Gales (Wales)	because it	divertido (fun)
		museo (a museum)			Escocia (Scotland)	would be)	emocionante (exciting)
		playa (a beach)			Inglaterra (England)		asombroso (amazing)
		biblioteca (a library)	5 -	V/-	España (Spain)		tranquilo (calm)
		iglesia (a church)	T		Francia (France)		bonito (pretty)
		piscina (a swimming pool)	de la		Italia (Italy)		histórico (historic)
					América (USA)		animado (lively)
					Alemania (Germany)		



Contextual Understanding



Content

Media

art.

What is the main focus or subject of the work. What can you see?

Visual Elements Include, Line, Shape, Tone, Colour, Pattern, Form.

Mood - How does the work make you feel? What is the artists trying to show?



you.

and this has been dictated by a range of wider factors including Social, Political, Religious, Scientific and Environmental. For example Cubism was born out of the invention of the camera. After all, who wants to paint a realistic images when you can just click a button? And the Baroque style portrays the splendour of God, and Art as a weapon, at the time of the religious 30 year war between the Catholics and the Protestants.

Research an artist from that period that interests

Have a go at copying a section of their work in appropriate media.

Now have a go at creating you own inspired by the style of the artist.



Year 7 - Programme Music



Key Words Programmatic Telling a story Instrumental Music with no words or lyrics Music Instrumental music that does not tell a Absolute Music story Motif/Theme A short musical idea A short musical idea that represents a Leitmotif character, place, object or idea Music composed between the years of Romantic Period 1810 & 1910 Using instruments of the orchestra to Orchestral colour create a certain mood

Programme Music Composers



Camille Saint-Saens



Sergei Rachmaninov 1873 - 1943



1839 - 1881



Hector Berlioz 1803 - 1869



- The black notes are called **sharps** (#) and **flats** (b)
- When a note has 2 different names (eg. Db/C#) it is called the enharmonic equivalent
- 1 step is called a **semitone** (eg. G G#)
- 2 steps is called a tone (eg. G A)



GAB

C

E

E





What is multi-roling?

Multi-roling is where we play more than one character in a scene. We must use our skills to make sure the audience know we are playing someone else. For example, Robin Williams used his vocal and physical skills to fool everyone he was Mrs Doubtfire. How did he specifically change his skills?



Desert Island

Physical Theatre

- Physical theatre is a style of theatre that puts emphasis on movement rather than dialogue.
- Physical theatre is anything that puts the human body at the centre of the storytelling process.
- As a result it's often abstract in style, using movement in a stylised way.
- With the expression of ideas choreographed through movement, such performers use very little or no dialogue at all.

What are the benefits of adding Physical Theatre?

- When we create our own pieces of theatre in Drama we call it devising. This means we are coming up with our own ideas and developing them to make them into a final piece.
- Devising ideas can come from a stimulus (something to base an idea off) or from an original idea.





Plot

In the middle of WW2 a plane crashes on an island, leaving children stranded. At first, they love their life without adults and have a lot of fun. However, without rules and routine, the children start to fall out. As they fight for power, will they ever make it off the island?





Lord of the Flies





Stanislavski was a very important person in the development of Drama. He believed that Drama should be really truthful and represent real life. This means, that when we perform, we must perform with as much truth behind our performances as possible. This will make the audience really connect with our performance.



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15			
Keywords			
Perspective	Perspective is what gives a three-dimensional feeling to a flat image such as a drawing or a painting		
Illustration	An illustration is a decoration, interpretation or visual explanation of a text, concept or process.		
Tone	Tone refers to how light or dark a colour or shade is.		
Construction Lines	Lines which are lightly added to a drawing to help guide you to create the correct angles.		
Typography	The style and appearance of writing.		

3

DARK

Key Fauinment

4

5

6

MIDDLE

8

Computer Aided Design - "CAD"



10

LIGHT

Any design created using a computer is classed as CAD. The CAD industry is huge and includes **Engineering**, **Architecture**, **Movies**, **Advertising** and **Video Games**. Graphic Designers will have a keen eye for detail when creating realistic renderings and textures for movies and games etc.

Year 7

Jon Burgerman

Jon Burgerman was asked what the worst piece of criticism he's received about his work... "That it looks like a child has drawn it. I

'That it looks like a child has drawn it. mean, children often have amazing imaginations and their drawings are really loose, free and uninhibited. I wish I could draw like that."



- Jon Burgerman is a British illustrator. He creates vibrant illustrations and murals featuring monsters and patterns using continuous line.
- He has been commissioned all over the world to create murals on walls in public places.
- He has also created illustrations for advertising campaigns with Pepsi, Coke, Nike, Sony, New Era, Sky, Puma, Nintendo, MTV, Levis and AOL.

Food & Nutrition

Function of ingredients & balanced diets

The function of ingredients in bread making

Flour - gives bulk and structure to the bread. Gives taste and absorbs the moisture.

Salt - gives structure by helping gluten form. Adds taste.

Sugar - provides food for the yeast, adds flavour, and helps the bread brown.

Yeast - is the raising agent in the bread

Water - helps the gluten form, adds moisture for the yeast to grow



G – grains
kg = kilograms - 1kg = 1000g
ml = millilitre
L= litre - 1 litre = 1000ml
Tsp = teaspoon = 1 tsp = 5g
Tbsp = tablespoon = 1 tbsp = 15g

Measurements

C = arama

	Key Words
Nutrient	The properties found in food and drink that give the nourishment that are vital for growth and life. The main nutrients are carbohydrates, protein, fats, vitamins and minerals
Contamination	The presence in food of an item that can cause harm. Contamination can be physical, chemical or biological.
Enzymic browning	A chemical process where oxygen and enzymes in the food react to cause the surface to go brown. This process cannot be reversed.
Gluten	formed from the two proteins in wheat when water is added. It is developed when it is needed.
Fermentation	The chemical breakdown of sugar to acid, gas or alcohol by bacteria, yeast or other micro-organisms

Jamie Oliver states that 'Cooking from scratch is a fantastic way to save money and keep ourselves and our families healthy.' He goes on to say that 'Teenagers should all know how to cook a variety of healthy, balanced and cost effective dishes by the time they are 14.'



Oscar the Owl Doorstop

Textile Techniques

Applique

Pieces of fabric sewn on to a larger piece to form a picture or pattern.

Seams

A line where two pieces of fabric are sewn together on a product.

Paper Pattern

A paper pattern acts like a template. You pin it onto your fabric in order to cut fabric the correct size. Paper patterns include seam allowance







Fabric Scissors are sharper than paper scissors in order to cut fabrics. You must not use them for paper as it makes them blunt.



A sewing needle has what is called an eye, which is a small hole, where you place the thread through. This allows you to sew.



Pins are use to attached paper patterns to fabric or keep fabric together before sewing. You remove these once you have finished sewing.

Textiles Keywords

Thread comes on a reel and it is what Thread you thread through a needle in order to sew This is 1.5cm extra fabric you add onto Seam your fabric pieces in order for your Allowance product to turn out the correct size once sewn. Initial design ideas are you first sketches Design of an idea which you develop into a final Ideas design, that you can follow when making. Fabric is the term used for all materials Fabric such as cotton, polyester, silk, felt, fleece etc.

Common Fabrics

Cotton - This is a natural fabric that is used to make a wide range of items. For example shirts, dresses, socks, underwear and T-shirts.

Denim - This is a fabric made of cotton however it is woven in a special way and often dyed in different shades of blue. Denim is most commonly used in Jeans.

Wool - This is a natural fabric that is used to make mainly knitted items. For example jumpers, scarves, hats and gloves.

Polyester - This is a man-made fabric that is often blended with cotton to reduce the cost of items.

Felt - This can be man-made or a natural fabric using wool. It is easy to cut and sew and used a lot for craft







Product Design

What is Product Design and why is it important?

The role of **design** is to create a marketable **product** from an innovation. Design is often the deciding factor in the success of a product.

Many customers make purchasing decisions based primarily on product design, because good product design ensures quality, appearance, performance, ease of use, and reliability.



Tools we use to mark out:

- Marking gauge
- Try square
- Pencil
- Rule or ruler





Famous Designers

This is James Dyson. He is an influential designer because



- He constantly **innovates**, his designs are creative and unique
- His products are designed around the needs of the stakeholders
- The "cyclone technology" design, including the 15 years and **5,127 prototypes** it took before the first model, DC01, would ultimately prove successful in 1993. Fifteen vears!
 - Design and manufacturing occurs on a global scale. Dyson employs over 7,000 people.



Key Words - Data Representation

Data representation & Networks

	Key Words	
The internet:	a global computer network providing a variety of information and communication facilities, consisting of interconnected networks	
Packet switching:	a mode of data transmission in which a message is broken into a number of parts which are sent independently, over whatever route is optimum for each packet, and reassembled at the destination.	
Internet	The global system of interconnected computer networks	
IP address	A unique string of numbers separated by full stops that identifies each computer using the Internet Protocol to communicate over a network.	
Broadband:	a high-capacity transmission technique using a wide range of frequencies, which enables a large number of messages to be communicated simultaneously.	
WAN	Wide area network	
LAN	Local area network.	
Topology:	the way in which computers are arranged on a network	
Router:	a device which forwards data packets to the appropriate parts of a computer network.	
Firewall	A network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules	
	The process of encoding a message or information in such a way that only authorized parties can access it.	
Search Engine	A program that searches for and identifies items in a database that correspond to keywords or characters	

ASCII	American Standard Code for Information Interchange" encoding of characters. This character set uses 7 bits to represent 127 characters.
	A base 2 numbering system in which there are only two possible values for each digit: 0 and 1.
Bit	Short for "Binary Digit". It is one digit's location in a binary number, ie 1 or 0.
Nibble	is a digital unit of measurement that refers to four binary digits or half a byte (4 bits).
Byte	is a digital unit of measurement that refers to 8 binary digits (8 bits).
Hexadecimal	is a base-16 number system. Using characters 0-F. It is a convenient way to store Binary numbers.
Hex Code	three-byte hexadecimal number used in HTML, CSS, SVG, and other computing applications to represent colours. The bytes represent the red, green and blue components of the colour.
Logic Gate	Logic gates are the basic building blocks of any digital system. It is an electronic circuit having one or more than one input and only one output.



Badminton

Core Skills

Service - high, low & flick (forehand or backhand). Overhead - clear & drop (forehand and backhand). Underarm - clear, drive & drop (forehand and backhand). Net play Smash

Tactics (Tactics, Strategies & Compositional Ideas):

- A: AWAY keep the shuttle away from your opponent.
- B: Play on their weakness usually their BACKHAND.
- C: Keep the shuttle in the COURT but play to the COURT boundaries.
- D: Hit DOWN so your opponent has to hit up

Select shots that are appropriate for defending and attacking. Select simple shot combinations which move your opponent out of position.

Rules:

- There are three basic things to remember for scoring singles badminton:
- After each rally a point is scored.
- You keep serving until you lose a rally, the serve will then go over to your opponent.
- You serve from the Left if your score is Odd. You serve from the Right if your score is Even. This is the 'LORE of the SCORE'.



Badminton and Football

Football

Core Skills

Passing/receiving - either foot. Dribbling/moving with the ball - either foot. Shooting Heading. Tackling, jockeying, closing down and marking.

Tactics (Tactics, Strategies & Compositional Ideas): Attacking and Defending principles:

Attacking:

- Pace
- Depth
- Width.
- Make the pitch as big as possible
- Support: Angle and Distance.

Defending:

- Deny the opposition time and space.
- Make the pitch as small as possible.
- Use of the offside .
- Support: Angle and Distance





Netball

Core Skills

Passing and receiving (chest pass, shoulder pass, one/two handed pass) Dodging (single/double/sprint)

Marking a player

Shooting (close/distance)

Rebounding (attacking/defending)

Footwork and movement (landing on one/two feet/ pivoting)

Tactics (Tactics, Strategies & Compositional Ideas):

- Position yourself side on between your player and the ball.
- Hold your space and drive into a free area to receive a pass.
- Pass the ball in front of the player for them to move onto.
- Understand positional play.

Rules:

- You can not move with the ball.
- No contact on another player is allowed.
- You must be 1m away from the player with the ball.
- You must stay in your playing area.
- The first pass made at a centre pass must be received in the centre third.
- Centre passes always alternate after a goal has been scored.

XXXXXXXX

Netball and Gymnastics

Gymnastics

Core Skills

Jumps (tucked/piked/straddle/straight/180 180 turn) Rolls (backwards/forwards/ others) Turns (cartwheel/ round off/ forward and backward) Balances (handstand/headstand arabesque/ others) Apparatus

Tactics (Tactics, Strategies & Compositional Ideas):

- Mirroring
- Matching
- Pathways
- Unison
- Canon
- Levels
- Body tension
- Start and finish positions

XXXYXXXX