Year 8 – Mainstream Knowledge Organisers



Term 5

Swindon	Academy 2024-25
Name:	
Tutor Group:	
Tutor & Room:	

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."











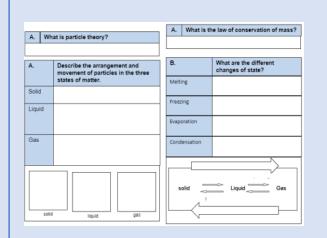
Using your Knowledge Organiser and Quizzable Knowledge Organiser

Knowledge Organisers

Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.

Quizzable Knowledge Organisers



These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

Top Tip

Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

Expectations for Prep and for using your Knowledge Organisers

- 1. Complete all prep work set in your subject prep book.
- Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- Take pride in your prep book keep it neat and tidy.
- 4. Present work in your prep book to the same standard you are expected to do in class.
- 5. Ensure that your use of SPAG is accurate.
- 6. Write in blue or black pen and sketch in pencil.
- 7. Ensure every piece of work has a title and date.
- 8. Use a ruler for straight lines.
- 9. If you are unsure about the prep, speak to your teacher.
- 10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?

Step 1	Step 2	Step 3
Check Epraise and identify what words /definitions/facts you have been asked to learn. Find the Knowledge Organiser you need to use.	Write today's date and the title from your Knowledge Organiser in your Prep Book. A. What is particle theory? The theory that all matter is made up of particles. A. Describe the transpersers and movement of particles the three states of matter. Describe the transpersers and movement of particles are arranged randomly but can side past each other and movement. Cas Particles are trapped randomly but can side past each other and movement. Cas Perticles are trapped and control but can side past each other and movement. Cas Perticles are trapped and control but discussed in a legit speed. Cas Perticles are trapped and control but discussed in a legit speed. Cas Perticles are trapped and control but discussed in a legit speed. Cas Perticles are trapped and control but discussed in a legit speed. Cas Perticles are trapped and control but discussed in a legit speed. Consideration Change of state from a movement of state from a mo	Write out the keywords/definitions/facts from your Knowledge Organiser in FULL. 29th May 2020 Properties of the states of matter Particle theory = all matter is made of particles Solid = regular pattern perticles vibrate in fixed position Liquid = particles are arranged randomly but are still banching each other and make a forund Gas = Particles are for apart and are arranged randomly. Perticles carry a lax of energy
Step 4	Step 5	Step 6
Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times. Solid = regular pattern	Open your quizzable Knowledge Organiser. Write the missing words from your quizzable Knowledge organiser in your prep book. A What is particle theory? A Describe the arrongement and states of matter. Sold Frescript Arrangement and Sold Frescript Arrangement Arrangement Sold Frescript Arrangement Arrangement Sold Frescript Arrangement Arr	Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident. Particle theory = all metter is node of particles Solid = regular pattern particles vibrate in fixed position Liquid = particles fre arranged randoms but are still touching each other Particles can still past each other and mare around Gas = Particles are for appart and are arranged randoms, Particles carry law of energy

Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.

'The Tempest' T Knowledge Organiser

Plot Summary

The Tempest Act 1, Scene 1

Alonso, the King of Naples, is on a ship with his son Ferdinand and his companions Sebastian, Antonio, Stephano and Trinculo. They are struck by a terrifying, howling storm. They abandon ship and swim to a nearby island but are washed ashore in different places. The island seems to be abandoned.

After the Storm Act 1. Scene 2

From a nearby island, Miranda watches the huge tempest. She lives with her father Prospero and has little memory of her life before the island. Prospero tells his daughter of their past: he was the Duke of Milan twelve years ago, but he was so involved with his books and secret studies that he did not realise his brother Antonio was stealing power from him. One night, Antonio ordered soldiers to take Prospero and Miranda and put them on a boat to their death. But they were washed ashore this island safely and have lived there ever since. Prospero has been ruler of the island. Prospero has created the storm to bring his brother to the island.

Ariel and Caliban Act 1. Scene 2 into Act 2. Scene 1

Prospero is a powerful magician who controls the spirit Ariel who completes tasks for him. Prospero has agreed to release Ariel after this last mission. Caliban is a deformed savage slave who is also under Prospero's control. He is the son of an old witch, Sycorax, and is a native of the island. Prospero taught Caliban how to speak but Caliban resents the control Prospero has over him.

Kind Alonso Act 2, Scene 1

King Alonso and his younger brother Sebastian, as well as Antonio (the usurping Duke of Milan), wander around the island. King Alonso weeps as he believes his son Ferdinand is dead. Sebastian and Antonio plot to kill Alonso so that Sebastian can be king. They are stopped by Ariel's magical intervention.

Caliban, Stephano and Trinculo Act 2, Scene 2 and Act 3, Scene 2

The monster Caliban is found by Stephano and Trinculo. They give him alcohol to drink and he gets drunk. Caliban offers to serve Stephano because he believes he is a god because of the heavenly drink! Caliban explains to them how Prospero has treated him and that he will be their guide on the island if they overthrow him. The three drunks go to find and kill Prospero.

Ferdinand and Miranda Act 1, Scene 2 and Act 3, Scene 1

Ferdinand has survived the storm. He is safely on the island and is found by Miranda. They fall instantly in love. Prospero wants to test that the love is real. Ferdinand has to endure hard labour to prove his intentions are honourable. Miranda pities Ferdinand and wants to marry him. Prospero blesses their marriage.

The End Act 4, Scene 1 and Act 5, Scene 1

A marriage for Ferdinand and Miranda is arranged and celebrated with a masque attended by spirits. It is interrupted when Prospero recalls the threat from Trinculo, Stephano and Caliban. Prospero and Ariel send spirit dogs to scare them away. King Alonso, Sebastian and Antonio meet Prospero. He explains what has been happening on the island. He shows them Ferdinand and Miranda who are now married. King Alonso is filled with regret and asks for forgiveness from Prospero which he grants.

Epiloque

Prospero declares that he will be giving up his magic. Ariel is released from his service. The party travel back to Milan. We do not know what has happened to Caliban.

Terminology: Keywords

comedy – a play that is funny. It has a happy ending.

soliloquy – when a character is speaking alone on stage to himself/herself or to the audience.

sibilance – figure of speech in which the letter 'S' is repeated. This often creates a hissing sound.

Characters

Alonso – King of Naples

Sebastian – Alonso's brother

Ferdinand – Alonso's son

Antonio – Prospero's brother. Antonio stole Prospero's title as Duke of Milan.

Gonzalo – the old counsellor to the King of Naples

Trinculo – a jester

Stephano – a drunken butler

Prospero – the rightful Duke of Milan

Miranda – Prospero's daughter

Ariel – an airy spirit; a slave of Prospero's who eams his freedom

Caliban – a savage and deformed slave of Prospero's; a native of the island

Vocabulary: Keywords

colonialism – when one country establishes itself in another country. When someone colonises a new country, they are called a coloniser. The original inhabitants of the land are called natives.

imperialism - a policy of extending a country's power and influence through colonization, use of military force, or other means.

usurp – to take control of someone else's power when you do not have the right to. Someone who usurps is called a **usurper**.

tempest – a violent storm.

treason – a crime that harms your country or government. Someone who commits treason is a **traitor**.

call ous – when someone is cruel and does not care about other people.

pathos – a situation that makes us feel sympathy or sorrow.

exploitation – taking advantage of someone for your own benefit

nurture – to encourage or support the development of someone or something.

dual nature - having two sides.

Background Information

Shakespeare was born in the Bizabethan era, named after Elizabeth I. After she died, James I became king. This period of history is called the **Jacobean** era, because Jacob is the Latin for James. Shakespeare lived and worked in both eras.

Italian city states - A city-state is an area that is ruled by a major city. During the Elizabethan and Jacobean era, Italy wasn't one unified country, but a number of small independent city-states.

Sea exploration was booming in the Elizabethan era as people 'discovered' new parts of the world. Queen Elizabeth I was obsessed with their discoveries and was happy to pay for their travels. Led by her example, the rest of the country were also fascinated by their stories and goods. Colonialism has had a lasting impact on the world. Many natives were exploited and killed by the white European colonisers. Issues of colonialism; such as racism and slavery are important to the play.

'The Tempest' T Knowledge Organiser

The Tempest Plot Summary	The End Act 4, Scene 1 and Act 5, Scene	1	1
The Tempest Act 1, Scene 1	A marriage	is arranged	Vocabulary: Keywords
	and celebrated with a masque attended when Prospero recalls the threat fromand	d by spirits. It is interrupted	colonialismThe original inhabitants of the land
	, and	meet Prospero.	are called
			usurp –
After the Storm Act 1, Scene 2 From a nearby,watches the huge She lives with her father and has little of her life before the Prospero tells his daughter of their: he was the	Epiloque		imperialism -
twelve years ago, but he was so involved with his and secretthat he did not realise his	Prospero declares that he will		
was stealing power from him			tempest –
	Terminology: Keywords		treason –
	comedy –		
	soliloquy –		callous –
Ariel and Caliban Act 1, Scene 2 into Act 2, Scene 1			
Prospero is a powerful who controls the spirit who completes tasks for him	sibilance -		pathos –
is a deformed savage who is also under Prospero's	Characters in The Tempest	<u>'The Tempest'</u>	exploitation –
	Alonso –	<u>T Knowledge</u>	nurture –
Kind Alonso Act 2, Scene 1	Sebastian –	<u>Organiser</u>	
	Ferdinand –		dual nature –
	reidilidira	Historical Context of T	he Tempest
	Antonio –		he era, named after Elizabeth
Caliban, Stephano and Trinculo Act 2, Scene 2 and Act 3, Scene 2 The monster is found by Stephano and Trinculo.	Gonzalo –	l	
	Trinculo –	Italian city states - A -	is an area that isby a
	Stephano –	major	
	Prospero –		ning in the Elizabethan era as people
Ferdinand and Miranda Act 1, Scene 2 and Act 3, Scene 1	Miranda –	'discovered' new parts of	the world
has the storm. He is safely on the island and is found by	Ariel –	d by her example, the rest of the country were also fascinated by their stories and goods. has had a lasting on	
	Caliban -	European colonisers. Issues are important to	were and killed by the white s of ; such as and o the play.





What we are learning this term:

- A. Compare Light and Sound waves
- B. Wave behaviour
- C. Sound waves
- D. Hearing ranges
- E. Uses of sound

A.	Types of Waves
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Waves transfer energy without transferring matter.

A. What are the two types of waves?

Transverse	Longitudinal

- Oscillations are perpendicular to the direction of energy transfer.
- Oscillations are parallel to the direction of energy transfer.

3 Key Words for this term

- 1. Ultrasound
- 2. Frequency
- 3. Transverse

B. What different behaviours do waves show?

Waves can travel through all sorts of media, and different things can happen at the **boundary** between different media:

Transmission	Passing through, we say a wave is 'transmitted' through a medium
Reflection	When a wave bounces back from a boundary between media at the same angle as which it hit the boundary.
Refraction	When a wave changes direction at the boundary between media due to a change in speed.
Absorption	When the energy a wave transfers goes into heating a material.
Diffraction	The spreading out of a wave after it passes through a gap.

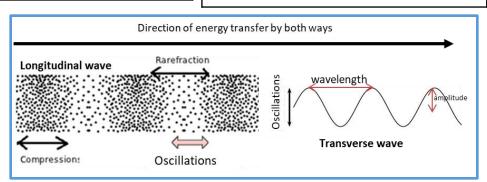
B. What is Superposition

Superposition occurs when two or more of the same kind of waves are travelling together. The waves can add up or cancel each other out depending on how they line up.

Constructive Interference Destructive Interference = Destructive Interference = Destructive Interference

A.	How do sound waves compare with Electromagnetic waves (e.g. Light)		
Sou	nd	EM waves, like light	
Requires a medium (particles) to travel		Does not require a medium (particles)	
Longitudinal waves		Transverse Waves	
Travels faster in more dense media. In air 330m/s		Travels slower in more dense material. In vacuum 3 x 10 ⁸ m/s	

C.	Changes in sounds	
What is pitch?		The highness/lowness of a sound. Higher sounds have a higher frequency
What is frequency?		The number of oscillations in a wave per second. This is also the number of waves passing a point per second. It is measured in Hertz (Hz)
What is volume?		The intensity of a sound. Louder sounds have a larger amplitude. It is measured in decibels (dB)





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What we are	learning	this term:
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- A. Compare Light and Sound waves
- B. Wave behaviour
- C. Sound waves
- D. Hearing ranges
- E. Uses of sound

Waves <u>transfer energy</u> without transferring matter.

A. What are the two types of waves?

3 Key Words for this term

- 1.
- 2.
- 3.

A. How do Sound waves compare to Electromagnetic waves (e.g. Light)?

Sound		EM waves, like light

В.	What different	behaviours do	Waves	show?
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Waves can travel through all sorts of media, and different things can happen at the **boundary** between different media:

Transmission	

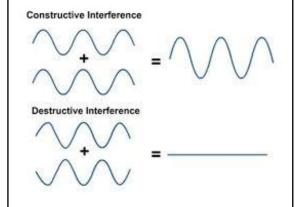
Refraction

Reflection

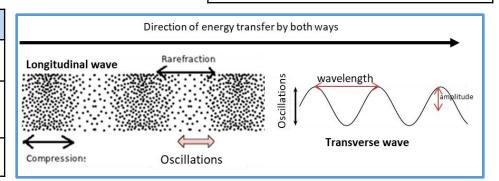
Absorption

Diffraction

3.	What is Superposition?	
<i>,</i>	Wilat is oupciposition:	



C.	Changes in so	ounds
What is pitch?		
What is frequency?		
What	t is volume?	



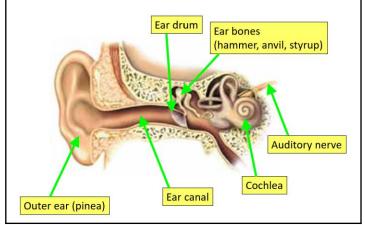




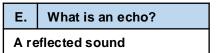
C.	How is sound produced?			
Sound is produced by vibrations				
How does sound travel?				
Vibrations transfer energy through particles.				
Whi	ch media does sound travel fastest in and why?			

Solids – the particles are closer together

C.	Part of the Ear	What is the Function?					
1. Outer ear (pinea)		Collects the sound like a funnel.					
2. Ear canal		Transmits sounds from the pinea to the ear drum					
3. Ear drum		Sound waves causes this to vibrate					
4. Ear bones (hammer, anvil, stirrup)		After the ear drum vibrates, it passes the vibrations on to these. They transfer the vibrations to the cochlea					
5. Cochlea		Receives vibrations and converts these to nerve impulses					
6. A	uditory ⁄e	Carries nerve impulses (messages) to the brain					



D.	Hearing ranges								
What is the hearing range of humans?		Humans have a hearing range between 20 – 20 000 Hz							
What is ultrasound?		Sounds with a frequency above 20 000 Hz							
What	is ultrasound used for?	Uses of ultrasound: Prenatal scans of unborn babies Ultrasonic cleaning of fragile objects (eg jewellery) Breaking up kidney stones to prevent harm.							

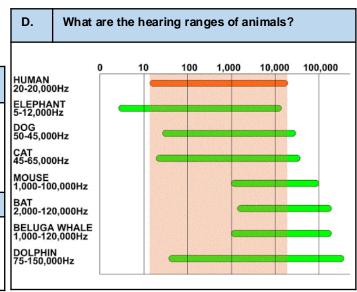


E. How do loudspeakers work?

- Loudspeakers are vibrating cones.
- The pattern and frequency of the vibrations (oscillations) determines the sound.

How do Microphones work?

Microphones have a vibrating diaphragm inside, which converts the sound wave into an electrical signal in a circuit.

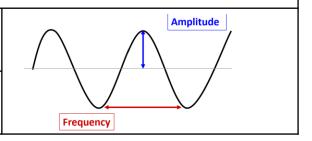


D. Seeing sounds – How can you see sounds?

You can use an instrument called an oscilloscope to see a sound wave

Amplitude (volume) is shown by the height. The higher the waves, the louder the sound.

The frequency (pitch) is shown by how close the waves are to each other. The closer they are, the higher the pitch.







C.	How is sound	I produced?	D.	Hearing ranges			
			What is the hearing range of humans?				
How does sound travel?		What	is Ultrasound?				
Whi	Which media does sound travel fastest and why?		What	What is ultrasound used for?			
C.	Part of the Ear	What is the Function?	E.	What is an echo?		D.	What are the hearing ranges of animals
1. 0	uter ear				╛		

C. Part of the Ear What is the Function?

1. Outer ear (pinea)

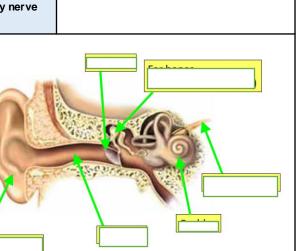
2. Ear canal

3. Ear drum

4. Ear bones (hammer, anvil, stirrup)

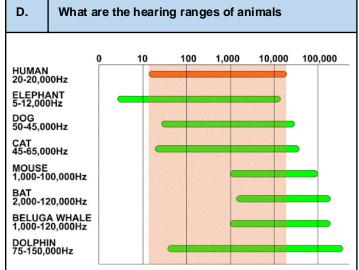
5. Cochlea

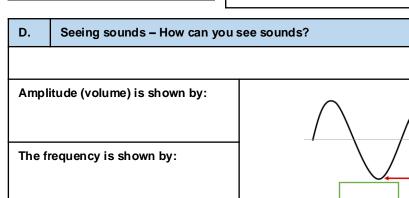
6. Auditory nerve



E. How do loudspeakers work?

How do Microphones work?







Year 8 Term 5 Science/Biology: Topic 9BB Biological Systems and Processes

Movement and muscles



What we are learning this term:

- A. Movement
- B. Breathing and Fitness
- C. Effect of drugs
- D. Aerobic and Anaerobic respiration
- E. Reproduction and Heredity

6 Key Words for this term

Chromosomes

Anaerobic

- 5. Aerobically
- Exchange
- 6. Cilia
- 4. Respiration

How does the muscular system help us move?

a bone.

bones) to move.

This system allows us to move by contracting and relaxing our muscles

A. How do your muscles move your bones?

Muscles exert a force on bones to move them.

What are the 4 functions of the Skeletal System?

Movement, support, protection and making red blood cells

Support - what is the main function of the spine?

The spine supports the upper body and allows us to stand upright.

Protection – what is the function of the following:

Ribcage	Protects the heart and lungs			
Cranium (skull)	Protects the brain			

Making blood cells - what part of the bone makes blood cells?

Bone marrow produces:

- **Red blood cells** (which transport O₂ and CO₂)
- White blood cells (some of which fight disease)
- Platelets (which cause blood clotting e.g. when we cut ourselves)

Why are bones hollow?

Long bones in the body are **hollow** – in the middle of the bone is a marrow cavity. The cavity contains bone marrow, from which blood is produced.

Α. What is Biomechanics?

Biomechanics is the working together of the skeletal system and the muscular system to help us move.

Bones are attached to each other by **ligaments**.

What are antagonistic muscles?

In order to move bones in two directions (e.g. bending then stretching your arm), muscles are paired antagonistically (one moves the bone in one direction, the other in the opposite direction).

A collection of tissues which can contract and relax, causing other body parts (including

Muscles are attached to bones by tendons. They are a strong, flexible tissue attaching a muscle to

How do they work?

A.

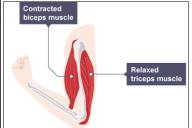
Ligaments

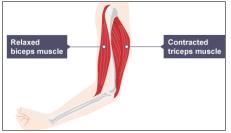
Muscles

Tendons

What are the following:

- 1. To raise the forearm, the biceps contracts and the triceps relaxes.
- To lower the forearm again, the triceps contracts and the biceps relaxes.





A. What is Osteoporosis

Osteoporosis is a condition in which someone loses bone density, making their bones fragile so they are more likely to break bones.

What are rickets?

Rickets can be caused by a deficiency of calcium or vitamin D. Rickets causes bone pain, and soft bones which can deform.

A. What happens if you overstretch a tendon?

Over-stretching a tendon can cause it to snap. Tendons will heal themselves but become shorter in the process because the two severed ends overlap to heal, reducing flexibility

What is Tendonitis?

As the body tries to heal a tendon, it will swell and become painful. This is called **tendonitis**, and includes **tennis** elbow.



Year 8 Term 5 Science/Biology : Topic 9BB Biological Systems and Processes



What we are learning this term:		A.	A. Movement and muscles					
A. Movement		What are the following:						
B. Breathing and Fitness C. Effect of drugs		Ligame	ents					
	naerobic respiration	Muscle	es					
6 Key Words for this term		Tendor	าร					
1. 2. 3.	4. 5. 6.	A. H	low do	es the muscular syste	m help us move?	А	. How do your muscles move your bones?	
3.								
A. What are th	he 4 functions of the Skeletal System?	A.	WI	hat is Biomechanics?				
A. What are th	ne 4 functions of the oxeretal system:							
A Support – wh	hat is the main function of the spine?	Α	V	Vhat are antagonistic	muscles?			
		How do	they we	ork?	Contracted			
Protection – what is	the function of the following:				biceps muscle			
Ribcage			Relaxed biceps muscle					
Cranium (skull)						Relaxed triceps n	nuscle	
A Making blood blood cells?	d cells – what part of the bone makes							
		Α.	What is	S Osteoporosis		A.	What happens if you overstretch a tendon?	
Why are hones hollow?		What are violate?						
Why are bones hollow?		What are rickets?				What is Tendonitis?		
		1						

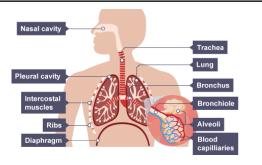


Year 8 Term 5 Science/Biology: Topic 9BB Biological Systems and Processes



B. What is the Respiratory System?

The organ system responsible for exchanging gases with the environment.



How does the respiratory system work?

- Air enters the body through the nasal cavity.
- · Travels down the trachea, then one of two bronchi,
- Travels to one of many bronchioles and ends up in the alveoli.
- Oxygen diffuses into the blood stream.
- Carbon dioxide diffuses in the opposite direction,
- It then follows the reverse of the above journey, to leave the body.

B.	Measuring lung capacity: what do the following terms mean?					
Vital capacity		The volume of air you can breathe out after breathing in as much as you can.				
Residu	al volume	Volume of air left in the lungs after breathing out as much as you can.				
Tidal vo	olume	Volume of air in a normal breath (in or out).				

What can you use to measure Lung Capacity?

A spirometer

What is the equation for lung capacity?

 $Lung\ capacity = vital\ capacity + residual\ volume$

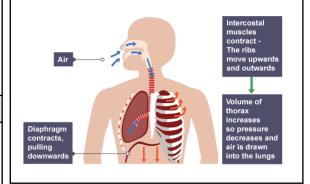
B. What is Ventilation?

Ventilation is the process of bringing gas in and expelling gas from the body.

Why are ventilation and Respiration different?

Respiration is a chemical reaction which happens in the body's cells and releases energy.

Ventilation is the process of bringing gas in and expelling gas from the body.



B. What is Asthma?

Asthma is a disease where airways become inflamed. The muscles around the bronchioles **contract**, constricting the airways and making breathing difficult.

What triggers Asthma?

Asthma is **non-communicable** but can be **triggered** by environmental factors such as infections, allergies and exercise

How can it be treated?

Asthma is treated using steroids.

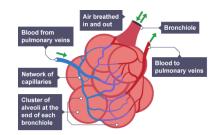
B. Where does gas exchange happen?

The lungs are the site of gas exchange between the body and the environment.

Oxygen for respiration diffuses into the bloodstream and waste carbon dioxide diffuses out of the blood into the alveoli, from where it is expelled in ventilation.

What are Alveoli?

Balloon-like structures which are responsible for exchanging oxygen and carbon dioxide between the blood and the lung cavity



The alveoli

What adaptations do the alveoli have?

- 1. High surface area thanks to their balloon-like shape
- Many capillaries give a good blood supply for gas exchange
- 3. Walls only **one cell thick**
- 4. Moist walls pick up gases (gases dissolve in water)

What is Diffusion?

Diffusion is the net movement of anything (for example, atom, ions, molecules) from a region of higher concentration to a region of lower concentration.

B. What effects can smoking have on the gas exchange system?

- Destroys cilia in the airways so they are less able to sweep mucus containing pathogens out of the lungs, leading to smoker's cough
- 2. Irritates the **bronchi**, causing **bronchitis**
- 3. Destroys alveoli, reducing the surface area for gas exchange and causing **emphysema**
- 4. Cigarette smoke contains **carbon monoxide** (CO) which binds to red blood cells, so they can carry less oxygen to cells and the **heart has to work harder**
- 5. Increases the risk of lung, throat, mouth and oesophagus cancers



Year 8 Term 5 Science/Biology : Topic 9BB Biological Systems and Processes



В.	What is the Res	spiratory System?	В.	What is Ventilation?		В.	Where does gas exchange happen?
	Nasal cavity	-0	Why	are ventilation and Respiration	different?		
		Trachea				What	are Alveoli?
	Pleural cavity Intercostal muscles	Lung Bronchus Bronchiole			Intercostal muscles		
	Ribs O	Alveoli Blood capilllaries		Air	contract - The ribs move upwards and outwards	Blo	and from monary veins Bronchiole
How	does the respirate	ory system work?			Volume of thorax increases	Net	twork of pulmonary veins
			contra pullin		so pressure decreases and air is drawn into the lungs	Clu alv	ster of soil at the old of each inchibile
			В.	What is Asthma?		What	adaptations do the alveoli have?
В.	Measuring lu terms mean?	ng capacity: what do the following	What	triggers Asthma?			
Vital	capacity					\A/lb of	is Diffusion?
						vvnai	is Diliusion?
Resid	lual volume		How	can it be treated?			
Tidal	volume						
			B.	What effects can smoking ha	ave on the gas excha	nge sys	tem?
What can you use to measure Lung Capacity?							
What is the equation for lung capacity?							



Year 8 Term 5 Science/Biology: Topic 9BB Biological Systems and Processes



B. What benefits come from regular exercise?

Regular training has the following effects:

- Heart muscles are strengthened
- · Cardiac output increases
- Resting heart rate is lower (fewer beats needed because heart muscles are stronger)
- Recovery (returning to resting heart rate) happens more quickly after exercise

Why do you breathe quicker during exercise?

More oxygen is required as body is working harder.

C. What is a drug?

A drug is a substance that affects the way your body works

C. What are the 2 types of recreational drugs, and what effect do they have on the body?

Stimulants Depressants

- Stimulants cause the nervous system to carry nerve impulses faster
- They can increase reaction times
- But can also speed up heart rate, and put strain on the body

Examples include: Caffeine, Cocaine, Ecstasy

- Depressants cause the nervous system to slow down
- They can decrease reaction times
- They can stop vital organs working, and stop parts if the brain working

Examples include: Alcohol. Heroin, Solvents

D. What is Respiration?

Respiration is a chemical reaction that releases energy from food molecules.

Why is respiration important?

An organism can the use the energy produced by respiration is several different ways including:

- 1. To build large molecules from smaller ones (grow)
- 2. To move
- 3. To keep warm

What are the 2 types of respiration?

	Aerobic	Anaerobic
Main difference?	With Oxygen	Without Oxygen
Where does it take place?	Mitochondria	Cytoplasm
What is the equation?	glucose + oxygen → carbon dioxide + water	In animals: glucose → lactic acid In plants/yeast: glucose → ethanol and carbon dioxide
Which produces the most energy?	Aerobic respiration produces more energy	Anaerobic produces less energy

D. What happens when Lactic Acid builds up in muscles from anaerobic respiration?

If lactic acid builds up in muscle cells it causes fatigue.

How does the body get rid of lactic acid?

We continue to have an elevated heart rate and breathing rate after exercise so that more oxygen enters the cells. This oxygen reacts with the lactic acid removing it from our muscles allowing them to work efficiently again.

D. What is fermentation?

When plants/yeast respire anaerobically, they produce ethanol and carbon dioxide.

What are the uses of fermentation?

It is useful as the ethanol can be used to make alcoholic drinks and the carbon dioxide is what makes bread rise.

E. Who discovered DNA?

Rosalind Franklin and Maurice Wilkins 1952

Using x-ray photography, Franklin and Wilkins produced high-resolution photographs of DNA fibres. They used these to deduce that DNA had a **helical** structure and that the outside of the molecule contained **phosphates**

James Watson and Francis Crick 1953

Using the x-ray data from Wilkins and Franklin, and using models, Watson and Crick managed to discover the double-helix structure of DNA. They and Wilkins were awarded the Nobel Prize in 1962.

E. | What is DNA?

Deoxyribonucleic acid – the genetic material of all organisms

What is a double helix?

Two helical strands wound around each other



Year 8 Term 5 Science/Biology : Topic 9BB Biological Systems and Processes

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В.	What benefits come from	n regular exercise?	C.	What is a drug?		
			C.	What are the 2 types of recreational drugs, and	d what e	effect do they have on the body?
100						
vvny do	you breathe quicker during	ng exercise?				
D.	What is Respiration?				D.	What is fermentation?
Why is	respiration important?				Wha	at are the uses of fermentation?
What a	re the 2 types of respirat	ion?			E.	Who discovered DNA?
Main dif	ference?					
Where	does it take place?					
What is	the equation?					
	produces the most					
energy?)				E.	What is DNA?
D.	What happens when	Lactic Acid builds up in musc	les from a	naerobic respiration?		
						at is a double helix?
How does the body get rid of lactic acid?						
					l 1	



Year 8 Term 5 Science/Biology: Topic 9BB Biological Systems and Processes



What makes up DNA?

- DNA has a double helix structure with two sugar-phosphate backbones wound around each other.
- Pairs of complementary bases connect the two backbones (strands)

What are the 4 bases and how are they paired?

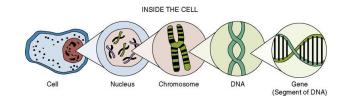
- The bases are adenine, thymine, cytosine and guanine (A, T, C, and G)
- A has a complementary shape to T
- C has a complementary shape to G

What are Chromosomes?

DNA wound up tightly. There are 23 pairs in human cells (but a different number of pairs in other species)

What are Genes?

A short section of DNA which codes for characteristics



E.	What are the different types of reproduction and how are they different?				
		Sexual reproduction	Asexual reproduction		
How ma	any parents?	2 parents	1 parent		
Will offspring inherit features from parents?		Offspring have features of both parents	Offspring are clones of the 1 parent		

E. What is Heredity?

Heredity is the process by which genetic information is transmitted from one generation to the next

What is a Genetic Disease?

Genetic diseases are passed on from parents to children through their genetic material. Children will be born with the disease

E. What is Gestation?

Gestation describes the development of a foetus in the womb.

What does a foetus need to develop?

In order to do all of this growing, the foetus needs to get **nutrients** and **oxygen**.

How does a foetus get what it needs to develop?

Since they can't eat or breathe, they get this from the mother's blood.

Nutrients and oxygen **diffuse** from the mother's blood into the baby's blood vessels, then **umbilical cord** in the **placenta**.

What is the Placenta?

Cigarettes

An organ which develops during pregnancy, and supplies the developing foetus with oxygen and nutrients, while also removing waste.

A tube which connects the baby to the placenta.

What is the Umbilical cord?

E. How can an expectant mother's behaviour affect her unborn baby?

The mother's behaviour during gestation can affect the development of the unborn baby because of the transfer of substances across the placenta.

Alcohol

What problems can be caused by different drugs during gestation?

,	Reduces the volume of oxygen which reaches he baby's cells, affecting their ability to release
	energy. (Nicotine narrows blood vessels,
	Carbon monoxide in smoke inhibits red blood sells from carrying oxygen)

- Increases the risk of premature (early) birth, stillbirth (death of the foetus), cot death (death of the new-born) and low birth weight caused by growth impairment
- Children whose mothers smoked during gestation are more likely to experience:
 - learning disorders
 - behavioural problems
 - low IQ
 - asthma

Physical defects e.g. small head size, low birth weight

- Cerebral palsy (movement and coordination problems)
- Behavioural differences including autistic traits and attention-deficit hyperactivity disorder (ADHD)
- Problems with organs including the liver, kidneys, and heart
- Learning difficulties

Other illegal drugs

Neonatal abstinence syndrome occurs when a mother has taken a drug which causes **dependency**, during gestation. The baby is born with a dependency on the drug.



Year 8 Term 5 Science/ Biology : Topic = 9BB Biological Systems and Processes



E.	What makes up DNA?	E.		What is Gestation?	
What a	are the 4 bases and how are they paired? are Chromosomes? are Genes?			does a foetus need to develop? oes a foetus get what it needs to develop?	Petal stage
		w	/hat i	s the Placenta?	What is the Umbilical cord?
INSIDE THE CELL Cell Nucleus Chromosome DNA Gene (Segment of DNA)				How can an expectant mother's behaviour affe	ect her unborn baby?
E.	What are the different types of reproduction and h	w are	What problems can be caused by different drugs during gestation?		
	they different?	Ci	igaret	tes A	Alcohol
L.	what is hereuity:				
					Other illegal drugs
What is a Genetic Disease?					



Geography Knowledge Organiser: Year 8 Term 5 Ecosystems



Background:

- 1. An ecosystem is a community of things that are linked together to make up a type of environment. (A, B)
- 2. An ecosystem contains biotic (living) and abiotic (non-living) parts. (B)
- 3. The climate of an ecosystem is very important as it influences what you will find there. (C)
- 4. The main world biomes can be found in specific parts of the world, they have very different climatic conditions & features. (C, D)
- 5. The rainforest biome has some distinctive features. *(F)*
- 6. However, deforestation is a major challenge facing rainforests world-wide. (*E*)
- 7. The deserts world-wide also have some key characteristics. (G)
- 8. The Sahara desert is a place with opportunities for people, but there are also challenges which need to be overcome. (H)

A.	Classification of ecosystem (4)				
Ecosystem		A community of things linked together in an environment.			
Bion	ne	An ecosystem on a large scale that covers parts of continents and whole countries.			
Hab	Habitat A place where plants and animals live. Example: a pond, or hedgerow.				
Biod	liversity	The amount of variety of life there is in a place.			

C.	Clin	matic features (4)			
Climate	graph	A graph showing rainfall and temperature in a place over a whole year.			
Precipit	ation	Any form of water falling from the sky.			
Convec rainfall	tional	Rain that is produced when warm air rises, cools and condenses, forming clouds and then rainfall.			
High pr	essure	Areas where air is sinking, this air has little moisture, thus condensation can not happen.			
F.	Rair	nforest features (4)			
Rainfo layers	rest	Forest floor, understorey, canopy, emergent layer.			
Nutrier cycle	nt	Nutrients move from living things to litter and the soil in a continuous cycle, keeping both plants and soil healthy.			
Drip tip leaves		A plant adaptation that lets excess water drip off leaves quickly.			
G.	Des	ert characteristics (4)			
Diurna range	ı	Differences between the highest day and lowest night time temperature.			
Noctur	Nocturnal Animals only come out at night.				
Cactus		Long root systems to get as much water as possible from dry ground.			
Camel		Webbed feet to help walk in sand.			
Н.		Opportunities and ch			
\ A /I= =		TI 0 I I I I I I I I I I I I I I I I I I			

D.		N	lajor global biomes (4)		
Tundra	(2)		Found at the far north and south of the planet. A cold ecosystem, little rainfall.		
Hot des	sert	0	. Found along the Tropic of Cancer and the Tropic f Capricorn. . Hot environments with little rain.		
Tropica rainfore (2)		2	. Found in places along the Equator. . Hot and humid environments with huge amounts f rainfall.		
Temper forest (tł 2	. The main biome of the UK and other places along ne same lines of latitude Warm summers, mild winters. No extremes of emperature, rainfall.		
E. Deforestation in the rainforest (6)			station in the rainforest (6)		
Deforestation		า	The cutting down and removal of forest. This happens due to many factors.		
Logging			Cutting down trees to sell the wood for a profit, sometime this is done illegally.		
Cattle ranching			Removing trees from a large part of the rainforest and keeping cows on the land. These are sold for meat.		
Slash and burn			A type of farming where you cut down a small area of trees, burn the vegetation and then grow crops on this land.		
		When the soil in an area loses its minerals (water or wind erosion) so that it becomes difficult to grow crops there.			
Indige tribes	nous		A group of people who live traditional lives in places (like the rainforest).		

В.	Features of an ecosystem (3)			
Biotic		The living parts of an ecosystem. Examples: plants, animals, humans.		
Abioti	0	The non-living parts of an ecosystem. Examples: soil, climate, river.		
Food	chain	A diagram that shows what is eating what in an ecosystem.		

H.	Opportunities and challenges for development in the Sahara desert
Where	The Sahara is found in Northern Africa.

In Algeria, oil extraction accounts for 60% of the GDP.
Farming in Egypt happens because the Aswan
dam provides water all year round to grow crops and
providing an income for farmers.

Opportunities (2):

1. Extreme temperatures can cause illness or death because of dehydration.

Challenges (2)

2. Water is scarce and so farming can be unreliable meaning an unreliable income for farmers.

Geography Knowledge Organiser: Year 8 Term 5 Ecosystems Background: C. Climatic features (4) D. Major global biomes (4) 1. An ecosystem is a community of things that Climate graph Tundra (2) are linked together to make up a type of environment. (A, B) 2. An ecosystem contains biotic (living) and Precipitation Hot desert abiotic (non-living) parts. (B) (2) 3. The climate of an ecosystem is very important Convectional as it influences what you will find there. (C) Tropical rainfall The main world biomes can be found in rainforest specific parts of the world, they have very (2) different climatic conditions & features. (C, D) High pressure Temperate 5. The rainforest biome has some distinctive forest (2) features. (F) However, deforestation is a major challenge F. Rainforest features (4) facing rainforests world-wide. (E) 7. The deserts world-wide also have some key E. Deforestation in the rainforest (6) Rainforest characteristics. (G) layers Deforestation The Sahara desert is a place with opportunities for people, but there are also challenges which Nutrient need to be overcome. (H) cycle Logging Classification of ecosystem (4) Cattle Drip tip Ecosystem ranching leaves Slash and G. Desert characteristics (4) Biome burn Diurnal range Soil erosion Habitat **Nocturnal** Cactus Indigenous Biodiversity tribes Camel Features of an ecosystem (3) B. Opportunities and challenges for development in the Sahara desert Н. Where **Biotic** Opportunities (2): Challenges (2) Abiotic Food chain

Year 8 History Unit 4 Age of Exploration

What we are covering: Age of Exploration

<u>We will be studying:</u> How this helped to kickstart the Industrial Revolution (E, F), The lives of slaves on plantations and how this compares to those of factory workers during the Industrial Revolution (G), Factors that contributed to the abolition of slavery and the slave trade (H), Developments in transport during the Industrial Revolution (I).

F. Causes of the Industrial Revolution

<u>Population growth</u> – Rapid growth in population. The more people there are the more goods they buy. Increase in population provided source of labour – workers.

Raw materials – Lots of iron to make machines, railways and cannons, coal to drive steam engines in the factories and clay to supply the pottery industry. Raw materials for new machines/inventions were available, either home produced or imported

<u>Farmers grew more food</u> – They are producing more food for the growing population, particularly for those in towns who cannot grow their own food. Farm workers are earning more and so have more money to spend on goods produced by industry.

Empire and Trade— Traders make more money and invest it in improving British industry and transports. Traders bring in raw materials like cotton from America. People overseas buy lots of British goods e.g. cotton cloth. This keeps the factories and workers busy back in Britain.

<u>British transport improved</u> – Better transport (canals and railways) makes raw materials cheaper and makes the supply more reliable. It also enlarges the markets and makes the finished goods cheaper. Improved transport allows new ideas and inventions to spread more quickly.

<u>Talented Entrepreneurs and Inventors</u> – Britain has great inventors (e.g. Arkwright) who have ideas about how to improve industry. Entrepreneurs can see how to make money out of these new ideas and invention.

E.

Improvements in farming. After 1750 farmers produced more food and people had the opportunity to enjoy a healthier diet (fruit, veg, dairy and meat). All the proteins and vitamins helped the body to fight disease.

Edward Jenner — in 1796, Jenner discovered how to vaccinate against one of Britain's worst diseases — smallpox. Gradually, more and more people were treated until 1870 when vaccination was made compulsory for all. Smallpox disappeared.

Improvements in Public Health—
After the 1860's councils began to clean up towns and dicties. Clean water esupplies and sewers were installed, better housing was built too.

Why did Britain's population increase so rapidly after 1750?

Super Soap- after 1800 cheap soap became readily available. Soap is a powerful germ-killer (although before the 1860's (at this time) people did not know that germs caused disease.

Medical advancements—
After 1870, doctors
started to use
ana esthetics (numbs
pain) and antiseptics (kills
germs) to make
operations safer and
cleaner. Fewer patients
died of shock, pain or
infection.

ı		
1	G. How did the lives of slaves a	and factory workers compare?
l	Slaves	Factory Workers
	Families were deliberately split up	Labourers worked 12- to 14-hour days, six days a week. When demand increased it could be up to19 hours
	Owners gave their slaves new names, and some owners branded their initials onto the slaves' skin	The noise of the machines caused workers to lose their hearing, and the dust and cotton fibres that filled the air caused lung
]	Working in sugar cane and rice plantations was exhausting, but tobacco plantations tended to be less demanding.	diseases. Factory owners kept strict discipline, docking the wages of
l	One of the worst jobs was working in the salt ponds of the Turks	employees who broke factory rules.
1	and Caicos Islands, where standing for long hours in the saltwater caused blisters and boils to spread across slaves' legs	Poor families depended upon the extra income provided by their children – children would start work as young as 5 (as scavengers and piecers)
	Small minority of slaves were taken into the plantation owners house, where they worked as cooks, servants or cleaners – some given a basic education	Children had to work right next to moving machinery, and if their arms or leg got caught, they could lose a limb – they would be beaten with a leather strap for not working hard enough/being disobedient.
		beaten with a leather strap for not working hard enough/being

H Beginnings of the Slave Trade - Interest in the New World. Christopher Columbus discovered America in 1492. - Conquistadors- Balbod's exploration of Isthmus of Panama led to the establishment of the first European settlement on the American mainland. - British colonies benefitted from their place in the empire by gaining more developed infrastructure, better education and improved law and order. Britain also introduced democracy to its colonies which gave more power to the people. Even colonies that had left the Empire were provided with help and support through the commonwealth. - Around 11 million African people arrived as slaves in the Americas between 1500 and 1850. - Ships full of commodities were transported from Britain to West Africa in port towns along the coast. - Slaves were shipped across the Atlantic ocean to the Americas and the Caribbean. - Slaves were sold, and the ships then transported the raw materials from the plantations back to Britain to sell to the British public.

	Year	8 History Unit 4 Age of Exploration		E.		Why did E	Britain's population	increas	se so rapidly after 1750	?
,				Improvements farming	<u>in</u>	Edward Jenner –	Improvements Public Health-	<u>in</u> <u>s</u>	Super Soap-	Medic al advancements
What v	we are cov	vering: Age of Exploration								
plantation that cor	ons and how	ng: How this helped to kickstart the Industrial Revolution (E, F) ,The lives of slaw this compares to those of factory workers during the Industrial Revolution (G), the abolition of slavery and the slave trade (H), Developments in transport dun (I).	Factors							
	F.	Causes of the Industrial Revolution								
Popula	tion growth	-								
		_				G. How did the lives	of slaves and fac	tory v	workers compare?	
Raw ma	aterials_					Slaves			Factory Worl	kers
Farmer	s grew mor	re food –								
Fm nire	and Trade									

Farmers grew more food –	
Empire and Trade	
British transport improved –	
Talented Entrepreneurs and Inventors-	
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Discovery of the New World		
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Year 8 History Unit 4 Age of Exploration

- 1	Factors in the abolition of slavery and the slave trade		
Slave Rebellions	The Maroons – escaped slaves who ran away from their plantations into the mountains There were 2 wars and the Maroons were cheated out of their peace agreement, arrested and transported out of Jamaica	Nat Turner's – Organised an uprising which resulted in the murder of the plantation owner and his family and the murder of 51 other white people. Turner was arrested, convicted and hanged along with 16 of his followers. This resulted in harsher laws against slaves.	Haitian Revolution – most successful slave rebellion. Resulted in the foundation of Haiti. The slaves rebelled killing tho usands of whites and burning down sugar plantations. The slaves succeeded and declared their independence in 1804.
Sugar Boycotts		tion by sidestepping Parliament entirely and calling for a boycott on Britain's largest in copies in four months - by 1792, 400,000 people in Britain were boycotting sugar 300,000 families had joined	nport, slave-grown sugar.
Economy	business.	se they were able to get cheaper and more ethical sugar from countries such as Cuba employ ex-slaves as waged labourers than to own slaves who had to be housed and fe	
Abolitionists	Granville Sharp- set up the Abolition Committee in 1787 to encourage the government to abolish slavery. Defended black enslaved people such as Jonathan Strong.	William Wilberforce- abolitionists' representative in parliament. Wilberforce introduced the abolition bill every year between 1790 and 1806, but they kept being defeated. Succeeded- 1807 Abolition of Slavery	Thomas Clarkson- helped to start the Committee for the Abolition of the African Slave Trade in 1787.

J. How did developments in transpo	t improve people's lives in Britain?
Canals	Railways
 People knew that it was far easier to transport goods over water than it was over land A horse could pull a barge with ten times more weight on than if the horse was pulling a cart – fewer horses pulling more goods = profitable Francis Egerton the Duke of Bridgewater had seen how effective canals were for transporting raw materials so he decided to link some coal mines that he owned in Worsley by a canal to the city of Manchester where the coal was used for iron and ship making (The Bridgewater Canal). Made it easier to transport coal to Manchester - the price of coal in the city halved and the Duke of Bridgewater made huge amounts of money – this inspired others to want to build canals. 	 Trains were a cheaper, more efficient and more effective way of travelling than canals - could travel at 15 miles an hour which was far faster than the couple of miles an hour a horse could walk carrying a barge Trains could carry 50 tonnes of goods - far more than a horse could pull on a barge Trains could be used to carry passengers and up to 600 passengers would be carried on it every journey - people could go to places that they would have never been able to before It allowed fresh dairy and agricultural produce from rural areas to be delivered to towns and cities Trains were a financial success and people suddenly realised that railways could provide huge profits – investors spend huge amounts of money on railways.

Year 8 History Unit 4 Age of Exploration

J. How did developments in transport	rt improve people's lives in Britain?
Canals	Railways



Year 8 Religious Education: Hinduism



	4		——					<u> </u>
What we are le	arning tl	his term:		C.	What is the Trimurti?			
A. Key words B. Hindu undo of God.		D. The nature of Goddes E. Hindu beliefs about th afterlife		Frimurti				" of God) consisting of Brahma the creator, Vishnu the preserver, and manifestations of the one ultimate reality.
C. The meani Trimurti		F. The principles of Ahimsa.		Representation of Brahma				4 directions- shows that it has created the whole universe. Holds tates t recreate the universe after each era. Sits on a lotus flower to
A. Ca	n you de	efine these key words?		Representation	Vishnu means pervading. It is	the pr	resei	rver, protector, guard. Its job is to maintain and preserve the order
Key word	Key d	<u>efinition</u>		of Vishnu				olour to represent endless bliss, mind and infinity like the sky.
Polytheism	God.	elief in or worship of more than one		Representation of Shiva		and e		Represented dancing on a demon which shows his power of Holding hourglass and fire which means that it controls the universe
Trimurti		iad of gods consisting of Brahma, u and Shiva.		D.	What is the nature of the G		ess i	n Hinduism?
Atman		rit name for soul. It is a deep self in all beings.	N	Meaning	the Goddess is seen as the a has many forms.	activa	ting	force that enables the male Gods to exert their power. The goddess
Samsara		cle of birth, death and rebirth to		Different forms of	Kali, she represents the fero	cious	natu	ure of the goddess
		life in the material world is bound.	G	Goddess	Parvati, she represents the k	indne	ess a	and gentleness of the goddess
Pervading	everyv	esent and apparent throughout, where.			Saraswathi is worshipped as	the g	godd	less of learning, wisdom, speech, and music.
Eternal	Everla	sting or existing forever; without er	d.		Lakshmi is the goddess of go	ood fo	ortun	ne, wealth, wellbeing.
Immortal	living f	orever; never dying		E. What	are the Hindu beliefs about the	after	life?	?
Karma		orce produced by a person's actions e that influences what happens to	in A	Atman (soul)	It is 'a deep self hidden in all be	ings'.	This	s soul within all living things is part of the pervading spirit of Brahman.
	them in	n future lives.	R	Reincarnation				and enters another body just 'as a man casts off old clothes and takes nan is 'eternal' and 'indestructible'.
Moksha	perfec	elease from the cycle of rebirth, the t peace, happiness and bliss of uni rahman		The cycle of Death and rebirth.		revio	us lif	igh a cycle of successive lives (samsara) and its next incarnation is fe was lived (karma). Moksha is the end of the death and rebirth cycle goal.
Ahimsa	violend	a means hamlessness or non- ce carried out in words, in thought action	b	How these peliefs affect a Hindus	Karma literal meaning is 'action' immediately or at some point in	'. Hind	dus b	pelieve in a law that every action has an equal reaction either e. Good or virtuous actions, will have good reactions or responses and So Hindus try to conduct good actions in their lives. They live good,
Reincarnation	The re	ebirth of a soul in another body.		everyday life				nd them and follow the god's words. Follow the principles of Ahimsa.
В		How do Hindus understand Go	d?			F.		What is meant by Ahimsa.
Hindus believe i Polytheistic	is	This is the belief in or worship of God, Brahman- who can take ma			ever, Hindus believe in One	1		Meaning- Showing respect for all living things and avoidance of violence towards others
Concept of Brah	nman	Brahman is understood as the lift being'. This power dwells within a is often described as 'it' showing	ll living b	peings but is also	beyond the universe. Brahman	2		Why Hindus follow the principle of Ahimsa? Hindus believe Ahimsa is a universal vow that is required for self-realisation. It is a necessity for anyone who aims to control their mind.
Understanding of	of God	They believe there is one supren living beings. God is invisible, for			an. This power dwells in all	3		How is the principle of Ahimsa shown in practice? By being a vegetarian, refusing to fight in war and being a pacifist, protecting the environment



Year 8 Religious Education: Hinduism



What we are	learning this	s term:	C.	What is the Trimurti?		
A. Key word B. Hindu un of God. C. The mea	nderstanding	D. The nature of Goddess E. Hindu beliefs about the afterlife F. The principles of	Trimurti Representation			
Trimurti		Ahimsa.	of Brahma			
Key word	Key defi	-	Representation of Vishnu			
Polytheism			Representation of Shiva			
Trimurti			D.	What is the nature of the G	oddes	s in Hinduism?
Atman			Meaning			
Samsara			Different forms of Goddess	f		
Pervading			Coddoos			
Eternal						
Immortal			E. What	are the Hindu beliefs about the	afterlif	ie?
Karma			Atman (soul)			
			Reincarnation			
Moksha			The cycle of Death and			
Ahimsa			rebirth.			
			How these beliefs affect a			
Reincarnation	1		Hindus everyday life			
В	F	How do Hindus understand God?			F.	What is meant by Ahimsa.
Hindus believe Polytheistic	e is				1	
Concept of Bra	ahman				2	
Understanding	g of God				3	



Year 8 Term 5 SPANISH Knowledge organiser: Topic = Yo y mi mundo



What we are learning this term:

- A. Describing morning routines
- B. Describing afternoon and evening routines
- C. Personality descriptors
- D. Relationships at home
- E. Relationships at home
- F. Film vocabulary

6 Key Words for this term

- Mi rutina diaria
 el mundo
- 3. Ilevarse bien con
- 4. las relaciones5. las soluciones6. puntos de vista

A. Lo que hago por las mañanas – What I do in the mornings

la rutina desayunar despertar(se) duchar(se) ir al instituto lavar(se) los dientes levantar(se) peinar(se) vestir(se) a menudo a veces antes después durar inmediatamente lueao

mientras

nunca

routine to have breakfast to wake up to shower to go to school to brush your teeth to get up to brush your hair to get dressed often sometimes before afterwards to last immediately then/later while never

B. Lo que hago por las tardes y por las noches – What I do in the afternoons and evenings

acostar(se) cambiar de ropa cenar hacer los deberes merendar pasear al perro relajar(se) volver a casa cuando llego a casa cuando me apetece si mis padres me dejan si tengo tiempo siempre que puedo

to relax to return home when I get home when I feel like it if my parents let me if I have time whenever I can

to go to bed

to get changed

to have dinner

to do homework to snack

to walk the dog

C. Personalidad

Hard working trabajador hablador Talkative tranquilo Quiet Serious serio simpático Friendly/nice deportista Sporty estudioso Studious sociable Sociable Antipático Unfriendly Bastante Quite Un poco A little bit Siempre Always De vez en cuando From time to time Nunca never Sería He/she would be Tendría He/she would have

	<u>Ke</u>	y Verbs	
Aguantar(se) To stand / bear	Llevarse bien con – to get on well with	Cuidar de To care for	Pensar To think
Me aguanto	Me llevo bien con	Cuido de	Pien so
I stand / bear	I get on well with	I care for	I think
Te aguantas	Te llevas bien con	Cuidas de	Piensas
You stand / bear	You get on well with	You care for	You think
Se aguanta	Se lleva bien con	Cuida de	Pien sa
S/he stands / bears	S/he gets on well with	s/he cares for	s/h e thinks
Nos aguantamos	Nos llevamos bien	Cuidamos de	Pensamos
We stand / bear	We get on well with	We care for	We think
Se aguantan	Se llevan bien con	Cuidan de	Pien san
They stand / bear	They get on well with	They care for	They think

D. ¡Te he dicho que no! – l've told you no!

estricto/a strict incompatible incompatible unfair injusto/a iusto/a fair razonable reasonable a todas horas all the time el conflicto conflict el lio mess el permiso permission la regla rule raras veces rarely siempre alwavs deprisa fast / quickly

E. ¡Te he dicho que no! – l've told you no!

to stand / bear aguantar(se) criticar to criticise discutir to argue enfadarse to get angry to shout Gritar pelearse to fight / argue to respect respetar to arrive home llegar a casa llevarse bien con to get on well with llevarse mal con to get on badly with to return home volver a casa to agree with estar de acuerdo to be against estar en contra

F. En busca de un mundo mejor – In search of a better world

las películas de action films acción las películas del Westerns Oeste las películas de romantic films amor las películas de martial arts films artes marciales las películas de science fiction ciencia ficción films los dibujos animados animated films las comedias comedies las películas de war films querra las películas de horror films terror las películas Police films policiacas emocionantes exciting araciosas Funny interesantes Interesting Chlidish infantiles divertidas Fun inteligentes Intelligent Silly/stupid tontas aburridas boring



Year 8 Term 5 SPANISH Knowledge organiser: Topic = Yo y mi mundo

|--|

G. Translat	tion Practice					
I have breakfast then I clean my teeth	Dimidd					
I brush my hair while I get dressed	Mpmqmv					
My mum wakes up at 6.30 in the morning	M m slals y m d l m					
They go to school in the afternoon	Vacplt					
I get on well with my parents because they respect me	Mlbcmppmr					
I don't get on with my sister	Nmlbcmh					
My dad is very strict	M p e m e					
My mum is very reasonable	Mmemr					
I get on with my teachers because they're hardworking = m I b c m p p s t						
From time to time I'm sporty but always I'm hardworking = d v e c s d p s s t						
Sometimes I'm lazy but often I'm friendly = a v s p p a m s s						
I get on with my teachers because they're hardworking = m I b c m p p s t						
I don't get on with my brother because he's annoying – n m I b c m h p e m						
I get on well with my parents because they're friendly = m I b c m p p s s						
My parents are more friendly than my teachers = m p s m s q m p						
My maths teacher is less studious and less hardworking = m p d me m e y m t						
My geography teacher is more chatty = m p d g e m h						
They're less hardworking but more chatty – s m t p m h						
My friends are hardworking and chatty and sociable = m a s t y h y s						

H . Key Questions: Answer the following in your own words. Use these model answers					
¿Cómo es tu rutina diaria? – What is your daily routine like?	Normalmente me despierto a las siete de la mañana y me levanto muy pronto después. Me lavo los dientes, me visto y salgo de casa a las ocho para ir al colegio.				
¿Te llevas bien con tus padres? – Do you get on well with your parents?	Sí, me llevo muy bien con mis padres especialmente con mi madre. Ella me respeta mucho y me da permiso para salir con mis amigos todo el tiempo. No me lleva muy bien con mi padre porque es muy estricto y se enfada todo el tiempo.				
¿Describe tus profesores?	Mi profesor de matemáticas es muy simpático y divertido. Mi profesora de ingles es más simpática que mi profesor de ciencias pero mi profesor de ciencias es menos generoso. Mi profesor de español es tan guapo como mi profesor de educción física.				
¿Qué peliculas te gustan? What films do you like?	Me encantan las películas de terror porque son emocionantes y entretenidas. Me gustan también las películas cómicas porque en mi opinión son muy graciosas y bastante divertidas				

I. Ke	I. Key Questions: Translate these model answers using the KO				
¿Cómo es tu rutina diaria? – What is your daily routine like?	I get up at 8am and then I have a shower. I have my breakfast at 8.20 and then I get dressed. Normally on the weekends I get up later.				
¿Te llevas bien con tus padres? – Do you get on well with your parents?	No, I don't get on well with my parents because they are very strict. I get on very well with my sister because she is fun and she makes me laugh. I also get on well with my brother because he respects me and we have a good relationship.				
¿Describe tus profesores?	Mi profesor de matemáticas es muy simpático y divertido. Mi profesora de ingles es más simpática que mi profesor de ciencias pero mi profesor de ciencias es menos generoso. Mi profesor de español es tan guapo como mi profesor de educción física.				

	J. Key Grammar
Using reflexive verbs	Reflexive verbs reflect an action that is done to oneself. When you use reflexive verbs, you need to use the reflexive pronoun before each one (conjugations to the verb apply as normal) e.g. <i>Me</i> levanto (I get (myself) up) e.g. Mi madre se levanta (My mum gets (herself) up) The reflexive pronouns are: me, te, se, nos, os, se You can recognise a reflexive verb in the dictionary because it ends in -SE
Using direct object pronouns (DOPs)	lo/la/los / las Basically, a DOP means 'it/them' it saves you from having to keep repeating the noun all the time. DOPs must agree with the noun you are replacing / referring to. e.g. Me gusta llevar la camiseta – I like to wear the T-shirt OR you can use DOP and say Me gusta llevarla. (la on the end refers to the noun which in this case is FEM. SINGULAR) e.g. La voy a comprar = I'm going to buy it (the DOP is LA so we know the noun is FEM. SINGULAR). e.g. Voy a comprar el jersey = I'm going to buy the jumper OR lo voy a comprar = I'm going to buy IT. (LO in this case refers to MASC. SINGULAR. noun which is 'el jersey')



Year 8 Term 5 SPANISH Knowledge organiser: Topic = Yo y mi mundo



		1							
What we are learning th	nis term:	B. Lo que hago por las tardes y por las noches – What I do in the		Key Verbs					
A. Describing morning routines B. Describing afternoon and evening routines C. Personality descriptors		afternoons and evenings		Aguantar(se) To stand / bear	Llevarse bien con – to get on well with	Cuidar de To care for	Pensar To think		
C. Personality descriptor D. Relationships at hon E. Relationships at hon	ne	acostar(se)	to get changed	I stand / bear	I get on well with	I care for	I think		
F. Film vocabulary			to get changed	You stand / bear	You get on well with	You care for	You think		
6 Key Words for this te	erm		to do homework	 S/he stands / bears	S/he gets on well with	 s/h e cares for	s/n e thinks		
Mi rutina diaria el mundo llevarse bien con	4. las relaciones 5. las soluciones 6. puntos do visto	merendar relajar(se)	to walk the dog	We stand / bear	We get on well with	We care for	We think		
Ilevarse bien con A. Lo que hago por la	6. puntos de vista	cuando llego a	to return home when I get home	They stand / bear	They get on well with	They care for	They think		
do in the r		casa	when I feel like it	D. ¡Te he dicho q	que no! – l've told you no!		de un mundo mejor – In		
desayunar	routine	si mis padres me dejan	if my parents let me	incompatible	strict incompatible	searc	th of a better world action films		
duchar(se)	to wake up	si tengo tiempo	whenever I can	justo/a	unfair fair reasonable		_ _ Westerns		
lavar(se) los dientes	to go to school			a todas horas el conflicto	all the time		romantic films		
peinar(se)	to get up			el lio el permiso			_ martial arts films		
a menudo	to get dressed	C. Personalidad		la regla raras veces siempre			_ science fiction _ films		
antes	sometimes	sometimes	trabajador		deprisa				
	afterwards			Talkative	E. ¡Te he dicho q	ue no! – l've told you no!		_ war films	
	immediately	simpático	Serious	aguantar(se) criticar	to		horror films		
nunca	while	estudioso sociable Sociable Sociable	discutir enfadarse			_ Police films			
			Unfriendly	pelearse respetar			_ exciting _ Funny		
			A little bit				_ Chlidish		
			From time to time	llegar a casa llevarse bien con llevarse mal con			_		
			He/she would be He/she would have	volver a casa estar de acuerdo			_ boring		
antes afterwards durar immediately luego while			Serious Sporty Sociable Unfriendly A little bit From time to time He/she would be	E. ¡Te he dicho quaguantar(se) criticar discutir enfadarse Gritar pelearse respetar llegar a casa llevarse bien con llevarse mal con volver a casa	to		comedies war films horror films Police films exciting Funny Interesting Chlidish Fun Intelligent Silly/stupid		

Year 8 COMPUTER SCIENCE Term 3 – Combined



What we are learning this term:

A. Strong Passwords

B. Social Engineering C. File Handling

D. Definitions



A.	Creating Stron	ng Passwords	B Social Engineering			В.	File Handling		
A strong password should:		anipulation of people to	of people to hand over confidential information or access.						
A Use a mixture of 10-15 characters.		Blagging		Making up a story to get monetary assistance or access.		Keyboard shortcuts			
	В	Use symbols and numbers.				Re	Renaming a file		F2
	С	Use upper and lower case letters.			Redirecting a user from a genuine website to a fraudulent one.	Со	Сору		Ctrl+C
	D	Avoid sequences.				Pa	ste		Ctrl+V
	E	Not contain personal information	Phish	ing	Sending an email which appears to be from a legitimate source.	Cut Ctrl+X		Ctrl+X	
A weak pa	assword					New folder Ct		er	Ctrl+Shift+N
	A	Is short (less than 10 characters long)	Shoul	ldering	Observing personal information over the shoulder when entering a password or a pin.	D	D Definitions		
	В	Uses popular terms.				Esa	Esafety The safe and responsible use of technology, the		
	С	Uses common phrases.	Spear	r-phishing	A phishing attack targeting a specific organisation or group.			internet and other means of communication.	
	D	Uses sequences of letters or numbers.					Using computers or other technology to modify programs or data to cause harm or damage.		
			Whali	ing	. A phishing attack targeting a specific individual.				
	E	Uses personal information (individual's name, date of birth).				Cybersec urity The technology and practices needed to protect device and data from cyberattacks.			

Year 8 COMPUTER SCIENCE Term 3 - Combined



What we are learning this term:			
A. Strong Passwords	B. Social Engineering	C. File Handling	D. Definitions



A.	Creating Stron	ng Passwords	B Social Engineering				C.	File Handling	
A strong password should:		The manipulation of people to hand over confidential information or access.							
	A				Making up a story to get monetary assistance or access.		Keyboard shortcuts		
	В					Re	enamin	g a file	
	С				Redirecting a user from a genuine website to a fraudulent one.		ру		
	D						aste		
	E		Phishi	ing		Cı	ut		
A weak p	assword					Ne	ew folde	er	
	A				Observing personal information over the shoulder when entering a password or a pin.	D ·	Defini	tions	
	В							The safe and respon-	sible use of technology, the eans of communication.
	С				A phishing attack targeting a specific organisation or group.				
							ber- ack		
	D		Whalii	ng					
							ber- curity		
	E								





Year 8 Art Term 5: Topic: Inner Self





What we are learning this term:

- A. Research and Key Words
- B. Drawing
- C. Mind Mapping
- D. Designing
- E. Making
- F. Decorating

A.	Vov word	for this torm?
Α.	Key word	for this term?
Key word		Key definition
1. Sculpture	е	A 3D artwork
2. Materials	5	What an artwork is made from
3. Formal E	Elements	The building blocks for Art
4. Mental H	lealth	Psychological and emotions wellbeing
5. Ceramic		Objects made from clay and the fired in a kiln.
6. Artist stu	ıdy	Drawing a piece of artist work
7. Tone		Lightness and darkness within art.
8. Pinch Po	ot	Creating a small vessel with clay-like a small pot.

D.	Mind Mapping for Inner Self
Use the spa for Inner Se	ace below to design and create your own mind map
Goals	

-Get amazing GCSE grades Strengths -Bungie jump Kind - Sporty - Ambitious

Emotions -Face my fear of heights -Funny

B. What equipment do you need to complete a successful grid method?

- 1. Sharp pencil
- 2. Ruler
- 3. Image you are drawing and plain paper.
- C. Similarities and differences between Eva Funderberg and Anya Stasenko (Images on top banner)

Similarities:

- 1. Both made from ceramic
- 2. Both outcomes explore emotions
- 3. Both made using the pinch pot technique

Differences

- 1. Anya hopes to make people smile with her work
- 2. Eva tried to portray a dark emotion
- 3. Eva creates her objects based on what humans feel on the inside.

E.	Step by step to making a pinch pot and then score and slip:
1.	Roll the clay in your hands, you are wanting to warm and smooth it through.
2.	Next, with your thumb, press lightly to make an indentation.
3.	Continue this process until the indentation become a small hole.
4.	Be careful to not make the edges too thin. You want to have a sturdy bottom and strong edges.
5.	To make the score and slip effective, take a day tool. Carve into the top of the edges you would like to join together with the tool.
6.	Next, add slip. Slip is like clay glue. It is watery paste clay.
7.	Add the slip and join edges together, making sure to smooth any bumps or holes. This might prevent a good seal.
8.	You have now, successfully created a pinch pot with score and slip.

Use the images below to help with step by step to making a pinch pot









Images of tools.





D.	Tools needed for working with clay:
1	Clay
2	Wooden board
3	Rolling pin
4	Slats
5	Clay tools
6	Plastic bags
7	Sponges or wipes
8	Spray water





Year 8 Art Term 5: Topic: Inner Self





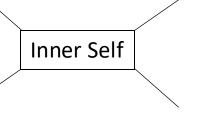
What we are learning this term:

- A. Research and Key Words
- B. Drawing
- C. Mind Mapping
- D. Designing
- Making
- F. Decorating

A.	Key word	ey word for this term?			
Key word		Key definition			
1. Sculpture					
2. Materials					
3. Formal Elements					
4. Mental Health					
5. Ceramic					
6. Artist study					
7. Tone					
8. Pinch Po	ot				

D.	Mind Mapping for Inner Self
	-

Use the space below to design and create your own mind map for Inner Self.



R	What equipment do v	ou need to compl	lete a successful (arid method?
-	Triat equipilient ac i	ou niceu le cenipi	icic a saccessiai v	

- 1.
- 2.
- 3.
- C. Similarities and differences between Eva Funderberg and Anya Stasenko (Images on top banner)

Similarities:

Differences:

Step by step to making a pinch pot and then score and slip: 1.

2.

3.

4.

5.

7.

6.

Images of tools.

Use the images below to help with step by step to making a pinch pot











1	
2	
3	
4	
5	
6	
7	
ρ	

Tools needed for working with clay:



Year 8 PRODUCT DESIGN Rotation Knowledge Organiser



What we are learning this term:

A. Workshop Tools

B. Materials

C. CAD

D. CAM

E. Memphis Design Movement

A. Workshop Tools							
Steel Rule	Wooden Vice	Clamp	Bench Hook	Tenon Saw	Pillar Drill	Bandfacer	

B. Materials

Timbers come from trees



Scots pine – which you used for your clock base – is a softwood

Softwoods come in planks and boards

Manufactured Boards come from wood pulp



Plywood – which you used as your Memphis shapes – is a manufactured board

Manufactured Boards come in sheets

Polymers come from crude oil



Acrylic – which you used as your Memphis shapes – is a polymer

Polymers come in sheets, graduals and filament

C. CAD



Computer-aided design (CAD) is the process of using computer software to create 2D or 3D designs.

Advantages of CAD	Disadvantages of CAD		
Designs can be created , saved and edited quickly, saving time	CAD takes a long time to learn		
Designs or parts of design can be easily viewed from different angles, copied or repeated	Software can be very expensive		
CAD is very accurate	CAD files can become corrupted or lost		

D. CAM

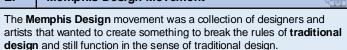


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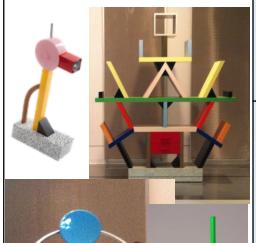
By using **computer aided manufacture (CAM),** designs can be sent to **CAM machines** such as **laser cutters and 3D printers**

Advantages of CAM	Disadvantages of CAM			
Quick – Speed of production can be increased	CAM takes a long time to learn			
Consistency – All parts manufactured are all the same	High initial cost can be very expensive			
CAM is very accurate	Production stoppage – If the machines break down, the production will stop			

. Memphis Design Movement



The idea was for the products to be **bright**, **colourful**, **playful**.



Key Designer

Ettore Sottsass



Key Features:

Crazy pattems; animal print, geometric, pinstripes. Strange shapes thrown together. Contrast!

Colours:

Bright, bold, Contrasting primary and secondary colours. Black patterns.



Very geometric; rectangles, triangles, squares, circles and arcs.





Year 8 PRODUCT DESIGN Rotation Knowledge Organiser



									₩ ♥
Wh	at we are learning this	term:					E.	Memphis Design Movement	
Α.	A. Workshop Tools B. Materials C. CAD D. CAM E. Memphis Design Movement						The Memphis Design movement was a collection of designers and artists that wanted to create something		
A.	Workshop Tools					X			ense of traditional design.
						<i>─</i>	The ide	ea was for the products to be	
								Key Designer Ettore Sottsass	
В.	Materials			C. CAD					Key Features:
Tin	nbers come from			Computer-aided design (CAD)) is the process of using	-1			Rey reatures.
		Scots pine – which you used for your clock ba	ou se		_ to create 2D or 3D de	signs.			
- is a softwood			Advantages of CAD Disadvantages of CAD		AD				
Softwoods come in									
	and						,		
Manufactured Boards come from							9		
Plywood – which you used as your Memphis shapes – is a manufactured board		3						Colours:	
				D. CAM			6		
Manufactured Boards come in		5	By using computer aided manufacture (CAM), designs can be sent tosuch as		s can be				
Polymers come from				Advantages of CAM	Disadvantages of C	AM			11. 0.1
		Acrylic – which you used as your Memphi shapes – is a polyme							Line Styles:
		Polymers come in							
		and					1		

Year 8 Term 5: Topic = Planning a Healthy Meal

What we are learning this term:

- A. Health, safety and hygiene in the kitchen
- B. The Eatwell guide and nutrients
- C. Design Ideas
- D. Weighing
- E. Practical skills
- F. Evaluation Work

B. Can you give 5 reasons for why someone should eat healthily?

- 1 to a void obesity
- 2 it can be less expensive
- 3 to keep a healthy heart
- 4 to keep your body fit
- 5 it can make a positive impact on your family

6 Key Words for this term

- 1 Hygiene
- 4 Balanced
- 2 Health
- 5 Nutritional
- 3 Food Poisoning 6 Target Market

A.	What are the three macronutrients in the diet?					
Carbohydrates		Foods that are eaten to give the body energy				
Protein		Food that are eaten to build and repair muscles and cells				
Fats		Food that are eaten to protect your vital organs and insulate your body.				



Prevent Cross Contamination Use correct colour coded chapping boards and knives at all times RAW MEAT RAW FISH COOKED MEATS SALADS & FRUITS VEGETABLES DAIRY PRODUCTS ALLERGENS



A. What is cross contamination and how can it be prevented?

Cross contamination happens when you use the wrong chopping board or equipment to prepare food which can therefore result in food poisoning.

B. What is the image on the left showing and how is it used?

In the photo you can see a food temperature probe. You use it to check that food it cooked. First you need to make sure that the probe is clean, then you insert it into the thickest part of the food and then check the temperature. If the food is cooked it can be served, if the food is not the correct temperature it needs to be cooked for longer.

C. Can you list 5 reasons for why we cook food and why it is important?

Rule

- 1 to get rid of bacteria on the food
- 2 to make the food taste better
- 3 to make food chewable
- 4 to ensure that food is not raw
- 5 to add colour to the food

Why it is important

- 1 to stop food poisoning
- 2 to make the food more appealing
- 3 it could be raw or a choking hazard
- 4 to stop food poisoning
- 5 to make it look more appetising or change its use

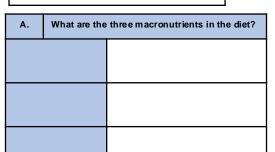
E.	Keywords			
Hygiene		A method of keeping yourself and equipment clean		
Research		Information that you find out to help you with a project		
Nutritious		A meal that is healthy and contains vital nutrients.		
Target Market		The age or type of person you re creating a product for.		
Carbohydrates		Foods that give you energy		
Protein		Food that grow and repair your muscles		
Fibre		Foods that keep your digestive system healthy and avoid constipation.		
Calcium		Foods that make your teeth and bones strong		
Desigr	n Idea	A sketch or plan of how you are hoping a project to turn out.		
Organisation		Having everything ready for a lesson and following instructions		
Time keeping		Using the time to remain organised.		
Sensory analysis		Use your senses to taste and describe a product		
Mood Board		A collage of photos and key words based on a project		

Year 8 Term 5 : Topic = Planning a Healthy Meal What we are learning this term: Health, safety and hygiene in the kitchen The Eatwell guide and nutrients Design Ideas Weighing Practical skills

Rule

3





4 Balanced

5 Nutritional

6 Target Market

F. Evaluation Work

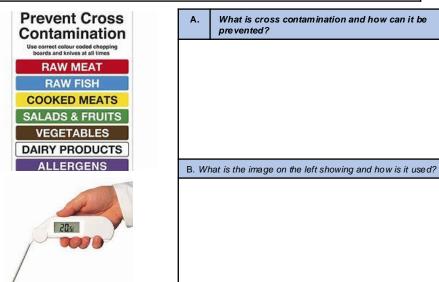
1 Hygiene

3 Food Poisoning

2 Health

6 Key Words for this term





Can you list 5 reasons for why we cook food and why it is important? Why it is important 2 3 5

What is cross contamination and how can it be

prevented?

YEAR 8 GRAPHIC COMMUNICATION

What are we learning this term?

Stencil design

Step up card

Accordion card

Key words

Evaluation

D| Key words

Stencil

Design

Material

The matter from which a thing can be made. E.g. a pop-up card would be made from paper and card

a thin sheet of card, plastic, or metal with a pattern or letters cut out of it,

used to produce the cut design on the surface below by the application of ink or

paint through the holes. a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made

A | Stencil design

List 3 health and safety rules for using a cutting knife

Three health and safety rules to consider that could be considered when using a craft knife are to hold the knife in the correct way with finger and thumb on base of knife to support the blade, to cut pushing the blade away from you, to tuck tie in and tie hair up.

List the materials you need to create a stencil

Craft Knife

Stencil design



Card

B | Draw the inside of the pop up card

Annotate the different steps, materials you need to make the card

2 pieces of card, both folded in half A ruler to measure the cut out A pencil to draw the guidelines Scissors to make the incisions

Cutting Mat



Coloured paper to add to the design Cut any incisions

C | Draw the inside of an accordion card

Annotate the different steps, materials you need to make the card

2 pieces of card, one folded in half A ruler to measure the folds Second card folded to create the accordion



Coloured paper to add to the design

E | Evaluation

Evaluation: To judge or give an opinion

Designers will evaluate their products to see what works well and what doesn't. This way they can make any improvements on their current designs to ensure a highquality product.

When writing an evaluation it is important to include the following three things:

- 1. Positives what works well
- 2. Negatives what doesn't work well
- 3. Possible improvements how could you make it better?

For example:

My tote bag looks great, the colours are bright which appeals to the audience of the festival. However, I have not designed a combined logo. One improvement I could make is to use images and text to create a combined logo.

YEAR 8 GRAPHIC COMMUNICATION

What are we learning this term?					D Key words			
A Stencil design	B Step up card	C Accordion	n card	D Key words	E Evaluation	Material	The matter from which a thing can be made. E.g. a pop-up card would be made from paper and card	
A Stencil design List 3 health and safety rules for using a cutting knife						Stencil	a thin sheet of card, plastic, or metal with a pattern or letters cut out of it, used to produce the cut design on the surface below by the application of ink or paint through the holes.	
List the materials y	ou need to create a s	stencil		1	7	Design	a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made	
					E Evaluation			
B Draw the insid	le of the pop up card		C Drav	w the inside of an a	ccordion card	Evaluation: To judge or give an opinion		
Annotate the different steps, materials you need to make the card				te the different steps make the card	, materials you	following thre 1. Positives – 2. Negatives	an evaluation it is important to include the e things: what works well what doesn't work well nprovements – how could you make it	

!2 bar blues Structure



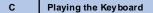
& D

What we are learning this term:

- A. 12 Bar Blues Structure (Chords)
- B. Playing the Keyboard left hand / right hand
- C. History of Blues Music –
 Check out this youtube video
 here!



F	Keywords						
Chord	A group of notes played together.						
Accompaniment	A musical line that supports the melody						
12 Bar Blues	A chord progression used in Blues music using chords 1,4,and 5.						
Improvisation	Music that is α eated spontaneously, or without preparation						
Walking Bass	Bass line that moves up and down the scale note by note.						
Riff	Similar to ostinato. A repeating chord progression, pattern or melody.						
Syncopation	A placement of rhythmic stresses/accents where they wouldn't normally occur. Off-beat sounding.						
Blues Music	A musical style originating in the US at the end of the 19 th century, mostly performed by Black Americans.						
Blues Scale	A six-note scale based on the major/minor pentatonic						



Remember to use your right hand when playing notes in the treble clef







Chords:

 $\mathbf{C} = CEG$

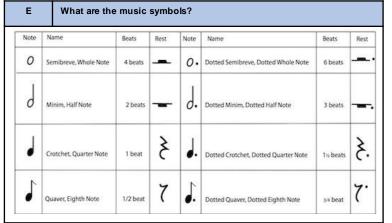
 $\mathbf{F} = FAC$

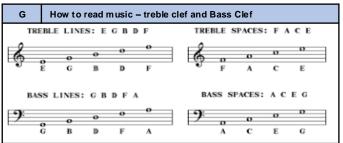
G = GBD

 $\begin{vmatrix} \mathbf{5} & \mathbf{F} & \mathbf{6} & \mathbf{F} \end{vmatrix}^{7} \mathbf{C} \begin{vmatrix} \mathbf{8} & \mathbf{C} \\ \mathbf{19} & \mathbf{110} & \mathbf{111} & \mathbf{112} \end{vmatrix}$

12 Bar Blues Chord Progression in C

19	10	11	112
G	F	C	





G	Des cribing music - N	Describing music - MAD T SHIRT								
М	Α	D	Т	S	Н	1	R	Т		
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Tempo		
The tune of the song/music	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising	Chords used / the mood	Types of instruments heard	Pattern of notes and beats	The speed of the music		

F

Year 8: Black Music in America



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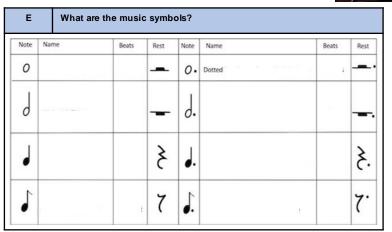
Keywords



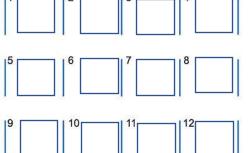
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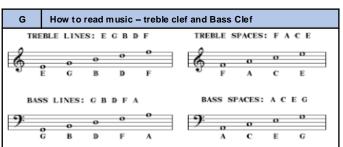


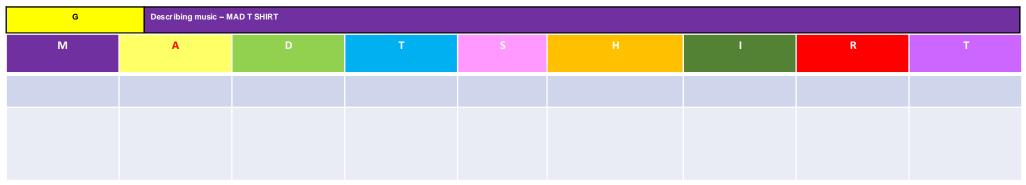
Playing the Keyboard











BLOCKING

Planning your positioning and movement around the stage, including entrances and exits

Year 8 TEACHERS Term 2/5

SET DESIGN

Deciding on the different elements that will be used to create a visual interpretation of the environment/setting of the scene.

PERFORMANCE SKILLS



specific effect.

Vocals - Pitch: How high or low your voice is.

Vocals - Emphasis: 'Highlighting' a specific word or phrase, by changing at least one aspect of your vocals.



Vocals - Power: The amount of tension in your voice. This is not the same as volume - vou can have large vocal power at a low volume.

Spatial Awareness: The ability to see yourself, (in relation to other actors/set), in the stage space to create a

Vocals - Pace: The speed that you speak



'Teechers' is a play written by John Godber in 1985. It is a play within a play in which three students perform for their teachers. The three actors multirole throughout the performance providing an account of their time in secondary school.

Key Characters:

Lilian Hobson "Hobby" –fed up with her friends. Gail Saunders - The flirty one

Ian Salt "Salty" - The fired soul, doesn't know what he'll do with his life after leaving school.

Mr Nixon – the drama teacher

Mrs. Hudson – the headmistress, renamed Mrs. Parry for the play, loud and large with a terrible dress sense.

Bobby Moxon – (Oggy Moxon) Bully of the school who scares teachers and students alike.

Ms. Whitham – Hopeless English teacher, eager to leave Mr. Basford – The deputy head and maths teacher. Hates children, typically nasty.

Miss Jackie Prime – The sports teacher, young and bouncy. Doug - The caretaker. Grouchy and assertive.

Mr. Dean – A teacher who thinks that all of the kids love him.

DRAMA TERMS

Script: The entire play written down. Scripts include all the dialogue that the characters speak, stage directions and a

brief overview of

the setting.





Proxemics: The use of space/distance to communicate relationship.

Given Circumstances: Everything that the script tells you. The 'world' of the play - the things that make the play that play and not a different play.

 Environmental - Geographic location (inc. climate), date, year. season, time of day. Also includes the economic environment: the character's relationship to wealth or poverty, and the class of the character in relationship to the society in which they live.





- Previous Action Any action mentioned in the play's dialogue that reveals any incident or action that took place before the current action of the play/scene began. Often called, 'exposition',
- Polar Opposition/Attitude Beliefs held by a character that are in direct opposition to the world in which the character lives. This opposition creates conflict. Conflict creates dramatic action.



DIG DEEPER QUESTIONS

How could you use vocal skills to communicate subtle changes to a character's emotions? How might environmental given circumstances influence a set designer? How might you as an actor use given circumstances to craft your character? What do you think is the most important part of the 'page to stage' process?

Why is blocking an important part of the 'page to stage' process? Why are proxemics so important when creating meaning? How can eye contact change the meaning of a line of dialogue? What makes a successful, scripted performance?

BLOCKING

Year 8 TEECHERS Term 2/5

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PERFORMANCE SKILLS



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Vocals - Pace:



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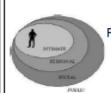
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SWINDON ACADEMY READING CANON

Long Way

