LIGHT HALL KNOWLEDGE MATS Year 8 Summer 1



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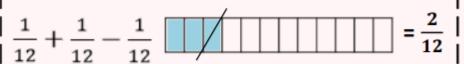
KEY WORD	DEFINITION	IMAGE	IN A SENTENCE	LOOK, COVER, WRITE, CHECK	LOOK, COVER, WRITE, CHECK	Animal Farm- Summer A 1. There is a list of key vocabulary
cynical	A distrust and criticism of others motivations.	(3)	He was a cynical person at Christmas time.			linked to your studies this half term. Learn the key words and definitions.
morality	the distinction between right and wrong behaviour.		A person's morality can be judged by their actions.			2. Below there is a link of key knowledge. Understand what
propaganda	information, <u>biased</u> , used to promote a political view.	E (1))	There was propaganda on TV near the election.			they all are. Grammar Knowledge:
revolution	Overthrow a government of social order.	5 5 5	A group of rebels planned a revolution to take over.			Conjunctions [08/04/24]: a conjunction is a part of speech that
communism	A political system whereby all of society shares equally.	প্	Few countries in the world are communist .			connects words, phrases, or clauses. Examples include: include and, or, but, because, for, if, and when. Simple, complex, compound [24/04/24]: Simple sentences contain
liberty	Being free in society from restrictions.		Liberty is a human right.			
torment	Severe physical or mental suffering.		The prisoner was tormented in their cell.			a single independent clause. Compound sentences also contain only independent clauses - two or
commandm ent	A divine ruling from God.		Moses received the commandments.			more of them. Complex sentences have both an independent and one or
fable	A short story with animals as characters conveying morals.	MS	Animal Farm is a fable about communism.			more dependent clauses. Clauses[06/05/24]: A clause is a group of words that contain a
hierarchy	A system in society where members are organised.	4	The Principal is the top of the school hierarchy .			subject and a verb. You get the independent clause which can be a
microcosm	A small group/society that has all the features of a large one.	Ĉ T T	A classroom is a microcosm of society.			sentence by itself and does not need more information to clarify and a subordinate clause which depends on
reinforce	Strengthen or support an opinion.		You need to reinforce your values.			information from the independent clause to make sense.

Key Words

- **Equivalent** of equal \ value
- Improper fractions a fraction with a bigger numerator than denominator

parts make up a

whole

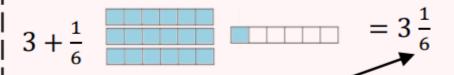


$$\frac{1}{4} + \frac{1}{4}$$
 $= \frac{2}{4}$

With the same denominator ONLY the numerator is added or subtracted

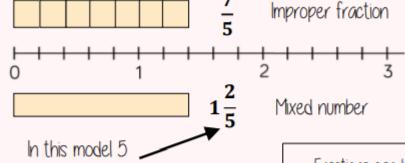
<u>Odd/Subtract unit fractions</u> Same denominator I i <u>Odd/Subtract from integers</u>

$$1-\frac{2}{6}$$
 = $\frac{4}{6}$



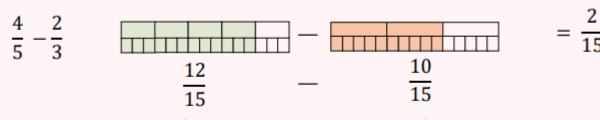
The denominator indicates the number of parts a whole is made up of

Mixed numbers and fractions



Fractions can be bigger than a whole

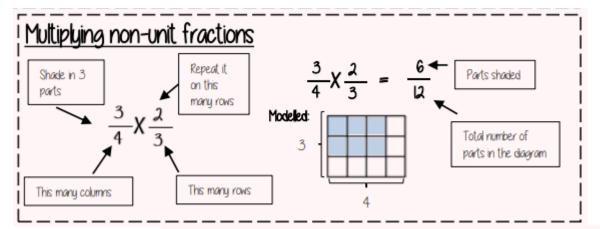
! Odd/Subtraction any fractions

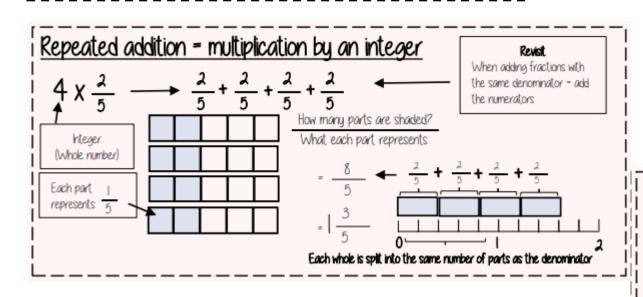


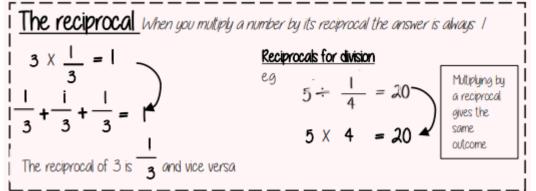
Use equivalent fractions to find a common multiple for both denominators

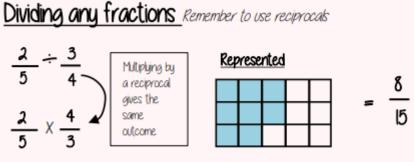
Key Words

- Non-unit fraction A fraction where the numerator is larger than 1
- Reciprocal A pair of numbers that multiply together to give 1



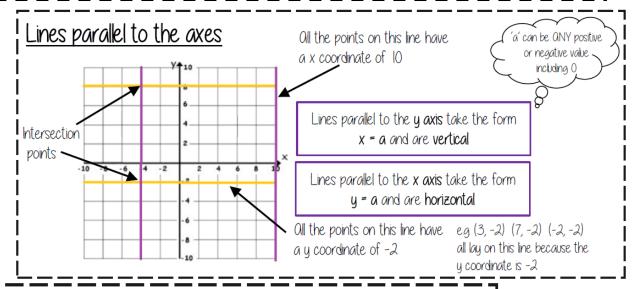




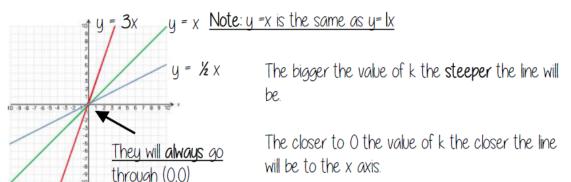


Key Words

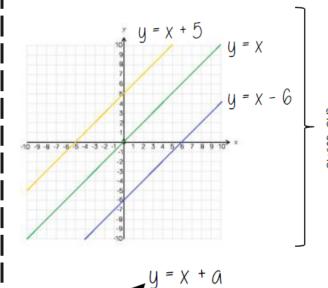
• Gradient – the steepness of a line Intercept –where lines cross.



Recognise and use the lines y=kx The value of k changes the steepness of the line



Lines in the form y = x + a



Oll the lines are **paralle!** ecause the gradients are the same.

This is the line y=x when the y and x coordinate are the same

This shows the translation of that line.

e.g. y = x + 5

Is the line y=x moved 5 7 places up the graph

5 has been added to each of the x coordinates

Exothermic and endothermic reactions

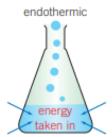
Exothermic reactions involve a transfer of energy from the reactants to the surroundings

- As energy is transferred to the surroundings this will show an increase in temperature
- Examples of exothermic reactions include combustion, freezing, and condensing



Endothermic reactions involve a transfer of energy from the surroundings to the reactants

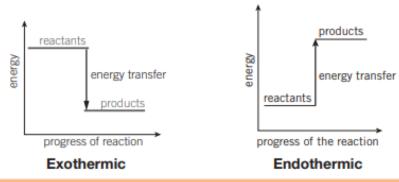
- As energy is taken into the reactants a decrease in temperature will be shown
- Examples of endothermic reactions include thermal decomposition, melting, and boiling



Energy level diagrams

Energy level diagrams show the values of energy between the reactants and the products in a reaction

- If the energy is greater in the reactants than the products then the reaction is exothermic as energy has been given out to the surroundings
- If the energy is lower in the reactants than the products then the reaction is endothermic as energy has been taken in from the surroundings



Bond energies

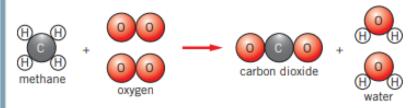
- Energy must be used to break chemical bonds, meaning that this reaction is endothermic
- Energy is given out when chemical bonds are made, meaning that this reaction is exothermic
- To see if a reaction is endothermic or exothermic, you must find the difference in the energy needed to break and to make the bonds in the reaction
- If the energy needed to break the bonds is less than the energy given out when making the bonds, the reaction is exothermic
- If the energy needed to break the bonds is more than the energy released when making the bonds, the reaction is endothermic



Make sure you can write definitions for these key terms.

Chemical reactions

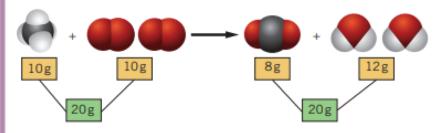
· Word equations can represent a chemical reaction:



- The reactants are on the left side of the arrow and the products are on the right side of the arrow
- We use an arrow instead of an equals sign as it represents that the reactants are changing into a new substance
- In a reaction, the amount of each type of atom stays the same, however they are rearranged to form a new product

Conservation of mass

- In a reaction the mass will be conserved, this means that the total mass of the reactants will be equal to the total mass of the products
- If it appears that some of the mass has been lost, this means that a gas has been produced and escaped, accounting for the lost mass



W/c 22nd April 2024

Balanced symbol equations show the amounts of all of the individual atoms in a reaction

- The symbols used are from the Periodic Table
- They also show:
 - Formulae of reactants and products
 - · How the atoms are rearranged
 - · Relative amounts of reactants and products

Combustion

- Combustion is the burning of a fuel in oxygen
- · A fuel is a substance which stores energy in a chemical store
- Examples of fuels include petrol, diesel, coal and hydrogen
- When a carbon based fuel undergoes combustion, it will produce water and carbon dioxide

methane + oxygen → carbon dioxide + water

 Hydrogen can also be used as a fuel, this is much better than traditional fossil fuels as it does not produce carbon dioxide:

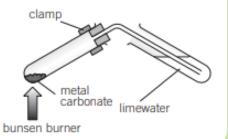
hydrogen + oxygen → water

Thermal decomposition

- A thermal decomposition reaction is one where the reactants are broken down (decomposition) using heat (thermal energy)
- An example of this is with metal carbonates:

zinc carbonate → zinc oxide + carbon dioxide

 We can test for this carbon dioxide by bubbling the gas through limewater, if the limewater turns cloudy, the gas is carbon dioxide



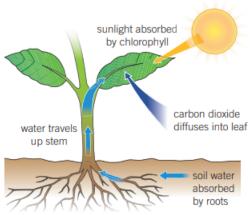
W/c 6th May 2024

Photosynthesis

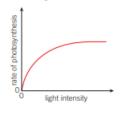
 Photosynthesis is the process which occurs in the chloroplasts to produce glucose using sunlight

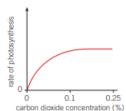
water + carbon dioxide + sunlight → glucose + oxygen

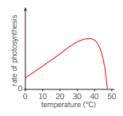
 Any organism that can use photosynthesis to produce its own food is known as a producer, these are not just limited to plants but can include other organisms such as algae



- The rate of photosynthesis can be affected by:
 - Light intensity the higher the light intensity the higher the rate of photosynthesis up to a point
 - Carbon dioxide concentration the higher the carbon dioxide concentration the higher the rate of photosynthesis up to a point
 - Temperature the optimum temperature is the temperature at which photosynthesis occurs at the highest rate, before and after this the rate will be less

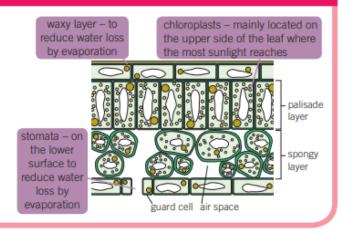






Leaves

- To best adapt for photosynthesis leaves have a number of adaptations
- They are thin to allow the most light through
- There is a lot of chlorophyll to absorb light
- They have a large surface area to absorb as much light as possible



Plant minerals

Plants need minerals for healthy growth, if they do not have enough of these minerals this is known as a mineral deficiency

Mineral	What is It used for?	What happens if there is not enough?
nitrates (contain nitrogen)	healthy growth	poor growth and older leaves yellow
phosphates (contain phosphorus)	healthy roots	poor growth, younger leaves look purple
potassium	healthy leaves and flowers	yellow leaves with deadpatches
magnesium	making chlorophyll	leaves will turn yellow

Fertilisers can be used to stop plants from suffering with mineral deficiencies



Make sure you can write definitions for these key terms.

aerobic respiration anaerobic respiration chlorophyll haemoglobin mineral deficiency fermentation fertiliser lactic acid magnesium red blood cells phosphates potassium producer nitrates oxygen debt photosynthesis plasma

8

W/c 20th May 2024

Respiration

- · Respiration is the process in which energy is released from the molecules of food which you eat
- Respiration happens in the mitochondria of the cell
- Aerobic respiration involves oxygen, it is more efficient as all of the food is broken down to release energy

glucose + oxygen → carbon dioxide + water

- The glucose is transported to the cells in the blood plasma
- The oxygen is transported to the cells in **red blood cells**, by binding with **haemoglobin**
- Carbon dioxide is a waste product and is transported from the cells to the lungs to be exhaled
- Anaerobic respiration is a type of respiration which does not use oxygen, it is used when the body cannot supply the
 cells with enough oxygen for aerobic respiration
- · Anaerobic respiration releases less energy than aerobic respiration

glucose → lactic acid

- The **lactic acid** produced through anaerobic respiration can cause muscle cramps
- Lactic acid will build up if there is not enough oxygen present in the blood supply to break it down. This is known as an oxygen debt

Fermentation

- Fermentation is a type of anaerobic respiration which occurs in yeast
- · Instead of producing lactic acid, yeast produces ethanol, which is a type of alcohol

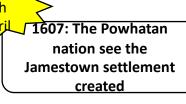
glucose → ethanol + carbon dioxide

This process can be used to form alcohol to drink or to allow bread and cakes to rise

Comparing aerobic and anaerobic respiration

	Reactant(s)	Products(s)	Rate of reaction	Energy released
Aerobic respiration	Glucose, oxygen	Carbon dioxide, water	Slow	More
Anaerobic respiration	Glucose	Lactic acid	Fast 9	Less

Year 8 Summer 1 –How did settlers change the lives of America's indigenous nations?







1776-83

Many Indigenous nations support the British as they lose the American war of Independence



1830: The Indian Removal Act is signed. Forces natives to move onto the Great Plains.



Timeline



1616: Pocahontas of the Powhatan's is taken to England

1763: Pontiac unites northern tribes to fight against the colonists



1823: The US Supreme Court supports the Doctrine of Discovery to allow American claim on Indigenous lands



Enquiry 1: How did the indigenous people live?

Key terms:

Indigenous-People originating from a certain place or location.

Nomadic- people who don't settle in one place

What I need to know:

- Indigenous people lived in different ways depending which area of America they lived.
- Tribes such as the Cherokee and Powhatan were settled. They farmed, fished and hunted for food.
- Tribe such as the Sioux were nomadic as they lived on the plains and followed the buffalo.
- The buffalo were extremely important to nomadic tribes as they used every part.
- Indigenous nations believed in spirits and that everything had a spirt. They believed these spirts helped guide them through life.

Enquiry 2: How did life change for America's Indigenous nations?

Key terms:

Powhatan – The tribe that helped the settlers of Jamestown.

The Sioux – a powerful Native American tribe.

Royal proclamation – Law to stop the colonial expansion into America.

What I need to know:

- The Powhatan tribe were the first to come across the settlers at Jamestown. The British colonists may not have survived had they not learnt off the Powhatans.
- One of the most significant wars of the 1700s was Pontiac's war against the British colonists. Pontiac's war lasted 3 years.
- The British created the Royal Proclamation in 1763 to stop colonists expanding their land and to appease the natives.
- A peace treaty was signed in 1766, but many colonists were not happy and saw themselves as superior to the Indigenous tribes leading to colonists attacking the indigenous nations.
- In 1830, President Jackson signed the Indian Removal Act, which forced the natives to move west past the Mississippi river. Thousands died on this journey.

Enquiry 3: What happened to the Indians after independence?

Key terms:

w.b.20

Treaty- An agreement to end conflict.

Indian Removal Act- Law passed to move the Indigenous nations west.

Little Big Horn – the site of a key battle between the Indians and settlers

Reservation – land kept aside for Indian use – often of a poor quality

What I need to know:

- In the 1776 American war of Independence, many Indigenous nations decided to fight on the British side as the feared colonist expansion.
- When the Americans beat the British, the Indigenous tribes were left with a bleak future.
- American expansion increased straight away and more settlers moved across the land coming into conflict with more Indigenous nations.
- An Indian Frontier was created in 1834, to create a divide between Natives and the Americans.
- In 1861 little Crow and the Sioux tribe rebelled against the government who had broken a treaty to provide them with food.
- The battle of little big horn saw the Indians beat the American army.
- By the mid 1870's nearly all plains Indians were confined to reservations. Their children were often taken from them and placed on reservations.

Beach nourishment	The addition of new material to a beach artificially. Cheap (£500, 000 per 100 metres), easy to maintain, constant maintenance, sand from seabed destroys organisms
Beach reprofiling	Changing the profile or shape of the beach
Dune regeneration	Action taken to build up dunes and increase vegetation to strengthen the dunes and prevent excessive coastal retreat. Maintains natural environment, cheap, time consuming, areas off limit, limited area £200 – £2000 per 100 metres
Gabion	Steel wire mesh filled with boulders. £50,000 pre 100 metres. Cheap, improves cliff management, unattractive, last 5 – 10 years
Groyne	Wooden barrier built out into the sea to stop longshore drift. £150,000 each, cheap, widen beach, unattractive, causes problems down the coast
Hard engineering	Use of concrete and large artificial structures to defend the coast
Managed retreat	Allowing cliff erosion to occur as nature takes its course. Cheap, natural process, loss of land, relocation of people
Rock armour	Large boulders dumped on the beach as part of the coastal defences. £20,000 per 100 metres, quick to build, expensive to transport rock, rocks might not blend in
Sea wall	A concrete wall to reflect the energy of the sea and prevent erosion. £5000-£10,000 a metre, effective barrier, promenade on top, expensive, high maintenance
Soft engineering	Managing erosion by working with natural processes

Light Hall Knowledge Mat	Summer 1	Geography	Year 8	Europe	
					11

Homework 2: w/c 22nd April

- **Extreme Environment:** a habitat that is considered very hard to survive in due to its considerably extreme conditions
- Antarctic Circle: most southerly of the five major lines of latitude that mark maps of Earth
- **Climate:** the weather conditions prevailing in an area in general or over a long period.
- **Adaptation:** the process of change by which an organism or species becomes better suited to its environment
- Glaciers: a slowly moving mass or river of ice formed by the accumulation and compaction of snow on mountains
- **Exploration:** the action of exploring an unfamiliar area
- Global Warming: a gradual increase in the overall temperature of the earth's atmosphere
- Oil Extraction: drilling into the Earth to collect oil.
- **Importance:** the state or fact of being of great significance or value
- Antarctic Treaty: an agreement to preserve and protect the continent devoted to peace and science

Homework 3: w/c 6th May Adaptations of a penguin



Physical Adaptations:

- Short, tightly packed feathers to make the penguin streamlined in water
- Heavy solid bones to help them stay underwater when swimming
- Paddle-like flippers to help them swim through water quickly
- Blubber to keep them warm in cold conditions
- Black and white skin allows them to camouflage in the dark ocean and absorb heat to keep warm.

Behavioural Adaptations:

- Form large huddles to stay warm
- Breed in the winter so offspring can reach independence and catch their own food in the summer

Homework 4: w/c 20th May

Antarctic Treaty

The Antarctic Treaty came into force on 23rd June 1961. The objectives are:

- to demilitarise Antarctica:
 - to establish it as a zone free of nuclear tests and the disposal of radioactive waste
 - to ensure that it is used for peaceful purposes only
- to promote international scientific cooperation in Antarctica
- to set aside disputes over territorial sovereignty.

The treaty remains in force indefinitely. The success of the treaty has been down to the growth in membership. Forty six countries have agreed to the treaty. Twenty eight nations, including the UK, have Consultative status. The Treaty parties meet each year at the Antarctic Treaty Consultative Meeting. They have adopted over 300 recommendations and negotiated separate international agreements, of which three are still in use

The three international agreements are:

- Convention for the Conservation of Antarctic Seals (1972)
- Convention on the Conservation of Antarctic Marine Living Resources (1980)
- Protocol on Environmental Protection to the Antarctic Treaty (1991)

Light Hall Knowledge Mat

Summer 1

Geography

Year 8

Antarctica



Light Hall Knowledge Mat Y8 Scheme of learning

MFL - French HT5 Mes loisirs et activités sportives – Dynamo 2

29/04

On va au ciné?

Il v a une séance à 14h. Bonne idée! Je veux bien. Tu rigoles!

Je n'ai pas envie. Désolé(e). Je ne peux pas ce soir.

Rendez-vous où et à quelle heure? Chez moi. / Chez toi.

À 19h. À plus. À demain À samedi.

Je peux vous aider? Je voudrais trois billets pour ... Deux adultes et un enfant.

On peut jouer au / à la / à l' / aux ...

On peut faire du / de la / de l' / des ... You can do ...

Ca fait combien? C'est quelle salle?

le basket / le billard

le cyclisme / le vélo

le tennis de table

le ping-pong

le volleyball

la musculation

les arts martiaux

le foot(ball) / le footing

le handball / le hockey

le judo / le patin à glace

le rugby / le ski / le tennis

la danse / la gymnastique

la pétanque / les boules

la voile / la planche à voile

l'athlétisme / l'équitation

Are we going to the cinema? There's a screening at 2 pm.

Good idea! I'd like to. You're kidding! I don't want to.

At 7 pm.

See you tomorrow.

Can I help you?

How much is it?

basketball / snooker

football / jogging

handball / hockey

judo / ice skating

table tennis

table tennis

martial arts

volleyball

boules

rugby / skiing / tennis

dance / gymnastics

sailing / windsurfing

athletics / horse riding

weiaht trainina

Which screen?

You can play ..

cvclina

See you on Saturday

I'd like three tickets for ...

Two adults and one child.

Sorry. I can't this evening. Where and when shall we meet? At my house. / At your house.

a comedv un film d'animation See you later. an animated film

> a romantic film un film d'action

Qu'est-ce que tu vas voir?

I'm going to see ...

Je vais regarder ...

une comédie

What are you going to see?

15/04

an action film un film d'horreur

un film romantique

a horror film un film de science-fiction

a sci-fi film un film de supér-héros

a superhero film



Quels sont tes loisirs?

Je bavarde / Je parle avec mes copains.

Je fais du cyclisme. Je fais du vélo.

Je lis.

Je fais de la lecture. Je nage.

Je fais de la natation. Je ne lis pas beaucoup.

Je ne joue jamais à des jeux vidéos.

Je ne fais rien.

What are your hobbies?

I chat/talk to my friends. I go cycling.

I go cycling. I read.

I do some reading.

I swim. I go swimming.

I don't read much.

I never play videogames. I don't do anything.

Tu as fait des achats?

Je suis allé(e) au centre commercial. J'ai fait les magasins.

J'ai fait des achats.

J'ai lu une annonce pour les soldes.

J'ai fait une balade. J'ai fait une promenade.

J'ai attendu une demi-heure. J'ai depensé trop d'argent.

J'ai découvert un café. J'ai essayé plein de vêtements.

Have you made purchases? I went to the shopping centre.

I went shopping. I went shopping.

I read an advert for the sales.

I went for a walk. I went for a walk. I waited half an hour. I spent too much money.

I discovered a café. I tried on lots of clothes.







shoulder

eye / eyes

13/05

Pour être en bonne santé Il faut ... travailler dur. manger équilibré. boire beaucoup d'eau. avoir de l'assurance. être motivé(e) et déterminé(e).

aller à la salle de fitness. dormir huit heures par nuit. faire d'autres activités aussi. Il ne faut pas ... fumer de cigarettes. consommer de drogue.

To be in good health It is necessary ... to work hard.

to eat healthily. to drink lots of water.

to be confident. to be motivated and determined.

to go to the gym. to sleep for 8 hours a night. to also do other activities.

You must not ... smoke cigarettes. take druas.

Je trouve le tennis/la gymnastique ... amusant(e). fun. compliqué(e).

divertissant(e). fatigant(e). intéressant(e). passionnant(e). relaxant(e).

violent(e). ennuyeux / ennuyeuse. difficile.

facile. À mon avis / Pour moi ... le footing est plus facile que la natation.

la voile est moins amusante que le ski.

I find tennis / gymnastics ...

complicated. entertaining. tiring. interesting exciting. relaxing.

violent. boring. difficult.

In my opinion / For me ... jogging is easier than

sailing is less fun than skiing

le genou knee le nez nose le pied / la main le ventre / l'estomac stomach la bouche mouth la gorge throat la tête

Les parties du corps

le bras / la jambe

le cou

le dos

foot / hand head

At the doctor's

I have the 'flu.

I have a cold.

You must ...

stay in bed.

use a cream.

put on a bandage.

Body parts

arm / leg

neck

back

l'épaule l'œil / les yeux l'oreille J'ai mal au bras. J'ai mal à la gorge. J'ai mal à l'œil. J'ai mal aux veux. J'ai de la fièvre.

Je me suis blessé au pied / à la tête / à l'épaule. Je me suis blessé(e) aux jambes

I have sore eves. I have a temperature. I've hurt my foot / head / I've hurt my legs.

I have a sore arm.

I have a sore eye.

I have a sore throat.

Chez le docteur J'ai la grippe. J'ai un rhume. Il faut ...

rester au lit. utiliser une crème. mettre un pansement. pratiquer des exercices do some gentle exercises. modérés.

prendre des antidouleurs. Vous allez bien? Ca ne va pas. Depuis guand? depuis trois iours depuis hier

take painkillers. Are you well? I'm not well. Since when? for three days since yesterday

13



Light Hall Knowledge Mat Y8 Scheme of learning

Faculty MFL Spanish HT3

Viva 2 Unit 3- Comida 8th April



20th May

¿Qué te gusta comer	y beber? What do yo	u like to eat and drink?	
¿Qué no te gusta comer/	What don't you like to	la carne	meat
beber?	eat/drink?	la fruta	fruit
Me gusta(n) mucho	I really like	las hamburguesas	hamburgers
Me encanta(n)	I love	los huevos	eggs
No me gusta(n) nada	I don't like at all.	la leche	milk
Odio	I hate	el marisco	seafood/shellfish
Prefiero	I prefer	el pescado	fish
el agua	water	el queso	cheese
el arroz	rice	las verduras	vegetables
los caramelos	sweets		

¿Qué desayunas?	What do you have for b	reakfast?	2:	2 nd April
Desayuno	For breakfast I have	Como		I eat /For lunch I have
cereales	cereal	un bocadil	lo	a sandwich
churros	churros (sweet fritters)	¿Qué cena	s?	What do you have for
tostadas	toast			dinner?
yogur	yogurt	Ceno		For dinner I have
café	coffee	patatas fritas		chips
Cola Cao™	Cola Cao (chocolate drink)	pollo con ensalada		chicken with salad
té	tea	¿A qué hora desayunas/		At what time do you have
zumo de naranja	orange juice	comes/cenas?		breakfast/lunch/dinner?
No desayuno nada.	I don't have anything for	Desayuno a las siete.		I have breakfast at 7:00.
_	breakfast.	Como a las	dos.	I have lunch at 2:00.
¿Qué comes?	What do you have for	Ceno a las nueve.		I have dinner at 9:00.

En el restaurante	At the restaurant
buenos días	good day, good morning
¿Qué va a tomar (usted)?	What are you (singular) going to have?
¿Qué van a tomar (ustedes)?	What are you (plural) going to have?
¿Y de segundo?	And for main course?
¿Para beber?	To drink?
¿Algo más?	Anything else?
Voy a tomar	I'll have
de primer plato	as a starter
de segundo plato	for main course
de postre	for dessert
Tengo hambre.	l am hungry.
Tengo sed.	I am thirsty.

nada más	nothing else
La cuenta, por favor.	The bill, please.
la ensalada mixta	mixed salad
los huevos fritos	fried eggs
la sopa	soup
el pan	bread
las chuletas de cerdo	pork chops
el filete	steak
el pollo con pimientos	chicken with peppers
la tortilla española	Spanish omelette
el helado de chocolate/	chocolate/strawberry/
fresa/vainilla	vanilla ice cream
la tarta de queso	cheesecake
la cola	coke

6th May

Una fiesta mexicana	A Mexican party
¿Qué vas a traer/	What are you going to
comprar?	bring/buy?
Voy a traer	I'm going to bring
quesadillas	quesadillas (toasted
	cheese tortillas)
limonada	lemonade
Voy a comprar	I am going to buy
una lechuga	a lettuce

un pimiento verde/rojo	a green/red pepper
un aguacate	an avocado
un kilo de tomates	a kilo of tomatoes
medio kilo de queso	half a kilo of cheese
200 gramos de pollo	200 grammes of chicken
un paquete de tortillas	a packet of tortilla wraps
una botella de limonada	a bottle of lemonade

ćY tú? ćQué opinas	? And you? What do y	you think?		
Pues	Well	Eh	Er	
Depende	It depends	A ver	Let's see	
No sé	I don't know	Bueno/Vale	OK	
- 1	entiendo I'm sorry, but	I don't understand		
¿Qué significa ''?	What does '' mean?	¿Puedes hablar más	Can you speak more	
¿Puedes repetir?	Can you repeat that?	despacio, por favor?	slowly, please?	
Rolobana samalhas	woodoo Utah faaaaa			
	യാമിൽ High-frequen			
a las	at o' clock	lugar	place	
bastante	quite	para	for	
dia	day	por ejemplo	for example	
favorito/a	favourite	pasado/a	last	
hora	time	que viene	next	

Moral suffering

- 2. Natural suffering
- Buddha
- 4. Four Noble Truths
- Eightfold path
- Enlightenment
- 7. Adam and Eve
- 8. Free will
- 9. Original



- 11. Reincarnation
- 12. Karma
- 13. Faith

15/04/2024

14. Evil

Why do people suffer?:

- 1) Non-religious reasons -Result of bad choices made.
- -Part of life.
- To teach people right from wrong
- 2) Religious responses to suffering.

Test of faith Free will (Humans at 13/05/2024 fault.

Caused by wanting (Buddhist)

Linked to how we have lead our previous lives. (Hinduism)

Moral suffering:

Suffering which is caused by humans: e.g murder/violence Natural suffering:

Suffering which is caused by nature : e.g volcanoes/earthquakes

29/04/2024

The problem of evil and

How can an all loving God allow suffering in the world if he is:

Omniscient: All knowing Omnipotent: All Powerful Benevolent: All loving

Religious response:

suffering -

God has given everyone Free Will everyone has a choice to choose how to behave.





Religious views on suffering Buddhism

Siddhartha Gautama | Prince who didn't leave the palace until he was 29 | Witnessed four sights of suffering | left the palace in search of answers on how to end suffering | Enlightened under the Padhi tree- came up with the four ple truths.

Buddhists believe suffering is caused by wanting things- when we don't get what we want we suffer.

Four Noble Truths- Buddha's teachings on how to overcome suffering:

- All life involves suffering
- The cause of suffering is wanting
- To stop suffering we must stop wanting.
- To live in the middle way and follow the eightfold path.

Eightfold path - To live in the middle way and follow the eight ways to live a life that limits suffering.

Religious views on suffering Christianity Story of Adam and Eve Adam and Eve



First humans created by God Told by God not to eat from the T of Knowledge of Good and Evil tempted by the serpent disobeyed God and were banished from the garden of Eden | punished with death/ childbirth and working for a living.

Christian responses to suffering

- Punishment of disobe God's orders.
- Misuse of Free Will
- Test of faith to see if you will continue to believe in God through suffering.
- Jesus suffered and therefore everyone will experience suffering.
- God has a plan for all suffering.
- It is a way to allow Christians to help those who are suffering.

RE SKILLS: Concepts | Attitude | Knowledge | Exploration of experience | Skills.



Religious views on suffering



Religious views on suffering Hinduism

- 1. The law of karma says that every action has consequences.
- 2.Pain, suffering and any kind of misfortune is not caused by God but human actions.
- 3. Reward and punishment do not always come in this life. They might come in a future rebirth eg, a good person might be reborn into a rich family as a reward for good deeds in a previous life.
- 4. Suffering in this life is because of behaviour in a previous life.
- 5. The soul (atman) is born into one physical body, and when that body did it is reborn into another body.
- 6. This endless cycle of life, death and rebirth is called samsara.
- 7. It is possible to be released from samsara and to reach moksha, which is union with Brahman (God).

Islam and suffering

*Suffering will rewarded by those who were patient in their trials.



*Suffering can be a punishment for the sins that have been committed.

*Suffering is a test of faith in God.

*Story of Moses and Al- Khidr - Moses appears to perform horrible actions but they are actions that lead to good coming afterwards. | Allah has a plan for suffering and is Just in His actions.

Assessment Success Criteria

RE Skills	Success Criteria	
1 mark	Multiple choice – write down	
(Knowledge)	the correct letter and the word next to it.	
2 marks	List 2 answers.	
(Knowledge – recall)		
4 marks	Include 2 reasons, BOTH with	
(Attitude)	examples or further explanation.	
6 marks	Include 3 different religious	
	responses and an example or	
(Exploration of	further explanation to back it	
experience)	up.	
9 marks	Include 2 agree and 2 disagree	
(Skills)	reasons, with an example or	
, ,	further explanation for each.	
	Add a conclusion	



Knowledge



Exploration of experience



Attitudes



Skills

May





A number system that contains two symbols, 0 and 1. Also binary known as base 2. data Units of information. In computing there can be different data types, including integers, characters and Boolean. Data is often acted on by instructions. The number system most commonly used by people. It contains denary 10 unique digits 0 to 9. Also known as decimal or base 10. place value The value of the place, or position, of a digit in a number.

W/c 15th April 24

W/c 29th April 24

128	64	32	16	8	4	2	1

Working out the value of 1010 1000:

128	64	32	16	8	4	2	1
1	0	1	0	1	0	0	0
1×128 +	0 ×64+	1×32 +	0 ×16 +	1×8+	0×4 +	0 ×2 +	0×1
128+	0 +	32 +	0 +	8+	0+	0+	0



W/C 15th April - The 8 Tips for Healthy
Eating + Key Food Hygiene Terminology



Key terms

Allergens: Substances that can cause an adverse reaction to food. Crosscontamination must be prevented to reduce the risk of harm.

Bacteria: Small living organisms that can reproduce to form colonies. Some bacteria can be harmful (pathogenic) and others are necessary for food production, e.g. to make cheese and yogurt.

Cross-contamination: The transfer of bacteria from one source to another.
Usually raw food to ready to eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths or pests. Can also relate to allergens.
Food poisoning: Illness resulting from eating food which contains food poisoning micro-organisms or toxins produced by micro-organisms.
High risk ingredients: Food which is ready to eat, e.g. cooked meat and fish, cooked eggs, dairy products,

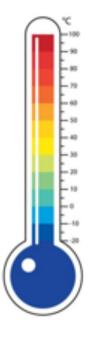
sandwiches and ready meals.

W/C 29th May – Key Temperatures

Temperatures to remember

To reduce the risk of food poisoning, good temperature control is vital:

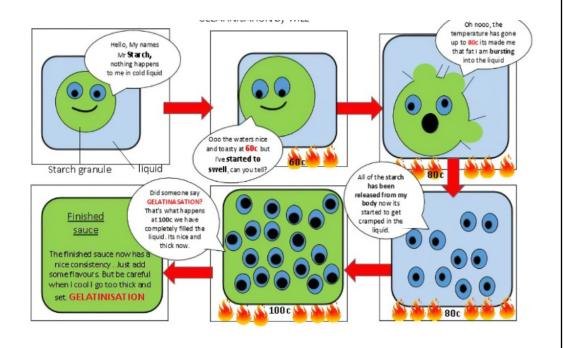
- 5-63°C the danger zone where bacteria grow most readily.
- 37°C body temperature, optimum temperature for bacterial growth.
- 8°C maximum legal temperature for cold food, i.e. your fridge.
- 5°C (or below) the ideal temperature your fridge should be.
- 75°C if cooking food, the core temperature, middle or thickest part should reach at least this temperature.
- 75°C if reheating food, it should reach at least this temperature. In Scotland food should reach at least 82°C.





W/C 13th -Food Science Gelatinisation

W/C 21st **November – Food Science Gelatinisation** - the swelling of starch granules when they are cooked within a liquid until they burst and release starch molecules to thicken a sauce e.g. white sauce for a Lasagne, Pasta Bake or Macaroni Cheese.



https://www.youtube.com/watch?v=zjyhMzjDaVI Watch the first 5mins.

Primary

Secondary

Primary

Secondary

Primary

Secondary

The colour wheel is a way of showing primary and secondary colours.

- Primary colours-Red, Blue and yellow.
- Secondary colours- Purple, Green and orange.

Complimentary colours are two colours found directly opposite on the colour wheel (for example Red and Green), they are used by graphic designers to make logos and images standout.

Harmonious colours are colours found next to one another on the colour wheel, designers use these to make design ideas which are balanced and easy on the eye. For example Red and orange.

Key terms

w/b 29th April

Graphic techniques

Logo

Graphic techniques are the methods a designer uses in drawings, such as crating, shading, colouring, and photography A logo is a small drawing or emblem representing a club, society or

company.

A pictorial projection is an accurate three-dimensional drawing of an object.

Render

Pictorial

projection

To render a drawing is to add colouring or shading to it and give it texture to look like the material

Tonal shading

The **lightness or**. **darkness of an object**. It is done by applying various strengths of shading to demonstrate where an object is affected by the light and shadows.

Wb. 13th May

Product Maintenance

Choose the correct words from the options given to complete the following sentences.

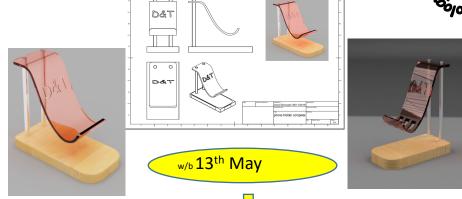
maintenance expectancy warranty style batteries Deliberately raw materials environmentally

Many products have a life expectancy based on some degree of maintenance e.g. simple products like personal electrical devices ned to have their batteries changed regularly. Complex products, e.g. cars have very detailed warranty Schedules.

<u>Planned Obselescence</u> is when a product has been deliberately designed to be thrown away after a certain period of time, e.g. Pens, razors, glue sticks. These products are often convenient to use but can use up the same amount of raw materials and energy as more long lasting products and aren't environmentally friendly.

Light Hall Knowledge Mat – Design & Technology Product Design HT5 with GGA Phone Holder

Hardwood	Softwood	Manufactured Wood (man-made)				
Deciduous	Coniferous trees	w/b 15 th April				
trees that shed	that keep the	П				
the leaves in	foliage					
winter.	(leaves/needles)	Manufactured wood				
Trees grow	all year round.	from the waste of				
slowly and can	Grow quickly,	cutting down timber				
have twisted	replaced once	mixed with other				
trunks. They are	cut down,	materials and				
often not	relatively low	formed in boards				
replaced once	cost.					
cut down. More	20th A 11					
expensive	w/b 29 th April					
Types of	wood / Timber in e	each category				
$\overline{\mathbf{Q}}$	$\frac{1}{2}$	\				
Oak, Beech,	Scots pine,	Plywood, MDF,				
teak, Ash	Parana Pine,	Chipboard,				
₽	Spruce, Cedar	hardboard, _				
	<u> </u> т	Blockhoard				
Stock Form – How it is sold and purchased						
Planks, boards,	Planks, boards,	Large flat sheets –				
strips, squares,	strips, squares,	don't warp or twist				
dowel, half	dowel, half	easily				
round and	round and					
quarter round	quarter round					



W/s 13 Way					
Tools and Equipment					
<u>Laser Cutter:</u> C.N.C. (Computer Numerical Control) Machine used to cut and engrave on Acrylic, Plywood, Leather					
<u>Tenon Saw</u> – Used to cut straight cuts in timber. Limited thickness that can be cut due to the brass back section at the top of the saw.					
<u>Junior hacksaw</u> : Used to cut small sections and thicknesses in metal					
<u>Scroll saw</u> - Used to cut intricate detail and curved shapes in thin sections of wood					
Battery drill – A portable drill with a battery attachment. Used to drill holes and can be used to inserting and removing screws.					

VARIATIONS

Exploring ways to develop musicai iaeas

Sections A &B w.b. 15th April

A. Theme and Variations Key Words

MELODY - A tune or succession of notes, varying in pitch, that have an organised and recognizable shape. Often called the main TUNE or THEME of a piece of music or song and easily remembered.

VARIATION - Where a THEME is altered or changed musically, while retaining some of the primary elements, notes and structure of the original. VARIATION FORM:











A1 (Variation) A (Theme)

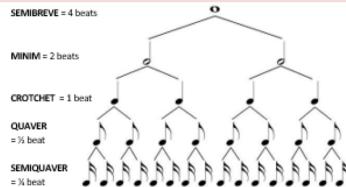
A2 (Variation) A3 (Variation) A4 (Variation)

B. Augmentation and Diminution – Note Values and Duration

AUGMENTATION - the process of DOUBLING the note values (DURATION) of a theme as a means of variation.



DIMINUTION - the process of HALVING the note values (DURATION) of a theme as a means of variation.

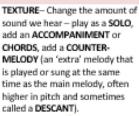


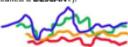
w.c. 29th April

PITCH -TEMPO Change the highness or Change lowness of the the theme speed play the of the same notes. theme but at play different it pitches e.g. faster in different ог OCTAVES. slower.

DYNAMICS Change the volume of the theme play it louder or softer.







TIMBRE AND SONORITY-Change the SOUND of the theme play it on

a different instrument.

ARTICULATION - Change the way the theme is played smoothly (LEGATO shown by a SLUR) or short,

detached and spiky (STACCATO shown by a

C. Variation Techniques

PEDAL - A long (often very long!) note in the bass line of the music over which other parts, including the theme or a variation of the theme can be played. Also called a PEDAL NOTE or PEDAL POINT and often the TONIC note (but can be the DOMINANT or other notes).

DRONE - A long or series of repeated (often long) notes using the TONIC

and DOMINANT notes together (a EIETH).

MELODIC DECORATION -

Adding extra notes or embellishments to the theme such as trills, turns, mordents (ORNAMENTS) or PASSING NOTES (extra notes between the main

melody notes).

OSTINATO CANON/ROUND Adding a repeated

musical

pattern

(rhythmic

or melodic)

to the main

theme as a

form of

variation.

 A song or piece of music in which different performers sing or perform the same THEME starting one after the other.

GROUND BASS A repeated

musical pattern in the bass part upon which chords, and melodies can be performed and varied "over the



D. Tonality - Major and Minor



TONALITY refers to whether a THEME or MELODY is in a MAJOR or MINOR key. Changing the tonality from major to minor or minor to major is one way of providing a variation on the theme of melody. Major and minor scales follow a certain pattern of tones and semitones:





E. Inversion and Retrograde

INVERSION - Changing the INTERVALS between the notes of a theme so that they are upside down from the original.

RETROGRADE - A variation technique created by arranging

the main theme backwards. RETROGRADE INVERSION - Arranging the "inverted" variation of the theme backwards!