

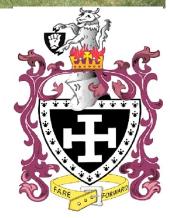
"In a time of turbulence and change, it is more true than ever that knowledge is power" John F Kennedy

Inspiring Education for All

Name:

Tutor:

Ready, Responsible, Respect



Contents

How To Use your Knowledge Organiserp.3
Look Cover, Write, Check, Correctp.4
Artp.5
Computingp.6
Food & Nutritionp.7
Design & Technologyp.8
Dramap.9
Englishp.1
Geographyp.11
Historyp.13
Mathsp.14
MFL Frenchp.15
MFL Germanp.16
Musicp.17
P.E
Sciencep.19

Ambition

Enjoyment

How to Use Your Knowledge Organiser

Self –Quizzing

Your Knowledge Organiser contains all of the key information you need to know for each subject area.

Your Knowledge Organiser will allow you to revise this key information and make sure it is stored in your long-term memory The best way to use this resource is by selfquizzing.

"look, cover, write and check"

Look, Cover, <u>Write</u>, Check, Correct

First, look through and read the information on a section of your knowledge organiser





Then, cover the section so you can no longer see the information

Next, Try and write out the key definitions or facts that you need to know





Now, uncover the section of your Knowledge Organiser and check how correct you were

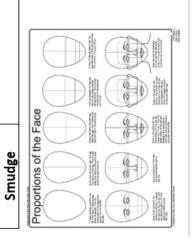
Finally, correct anything that you wrote down that was incorrect in **purple**



-earning Cycle 2

"Inspiring Education for AII"

	Portraits
Portraits	Portraits are artistic representations of people. They can be created in any media, from traditional oil paintings, to photographs, sculpture and even mixed media
Proportion	Proportion refers to the relationship in size and placement between one object and another. When creating realistic portraits, it is important to get the facial proportions correct
Highlight	The highlights are the areas on an object where light is hitting the object.
Realistic	Representing things in a way that is accurate and true to life
Abstract	Abstract art is art that does not attempt to represent an accurate depiction of a visual reality but instead use shapes, colours,
Asymmetrical	Torms and gestural marks to achieve its effect Having two sides or halves that are not the same
Form	The shape and structure of something
	Artists
Pablo Picasso	Pablo Picasso was a Spanish painter, sculptor, printmaker, ceramicist and theatre designer who spent most of his adult life in France. His most famous portraits are abstract images in the Cubist style
Julian Opie	Julian Opie, a British artist, is a sculptor and digital artist associated with the New British Sculpture movement, and best known for portraits that reduce subjects to essential lines and colour planes.
	Techniques
Pencil Grades	Pencil grades tell you how light/hard and dark/soft a graphite pencil is
Skin tone	Start with a little red, yellow, blue, and white on your paint palette. You can mix equal amounts of each of your primary colours
paint	(yellow, red, and blue) to create a dark brown tone. This brown can be the basis of any skin colour you desire
Grid	The grid method of drawing allows you to produce an accurate line drawing by reducing your subject to a series of small squares







Smudged tone created by pressing down on graphite pencil tone and smudging it with your finger

Tone -



Art

print('hello!')Prints a value on screen (in this case, hello!)input('')Inputs a value into the computer.x=input('')Inputs a value and stores it into the variable x.x=int(input(''))Inputs a value into x, whilst also making it into an integer.print(str(x))Prints the variable x, but converts it into a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a string first.if name ==Decides whether the variable 'name' ha a value which is equal to 'Fred'.if name ==Decides whether the variable 'name' ha a value which is equal to 'Fred'.if statement are not met (eg. name = 'Bob' when it should be Fred)elif (short for else if) is for when the first if condition is not met, but you want to specify another option.##	Python -> English	
<pre>('') ut('') (input('')) (str(x)) me == ": ": name == name ==</pre>	<pre>print('hello!')</pre>	Prints a value on screen (in this case, hello!)
<pre>ut('') (input('')) (str(x)) me == ": ": name == name</pre>	input('')	Inputs a value into the computer.
<pre>(input('')) (str(x)) me == "": " name == name ==</pre>	<pre>x=input('')</pre>	Inputs a value and stores it into the variable x.
(str(x)) me == "": ": name == name	v=int (innut (//))	Inputs a value into x, whilst also making it into
<pre>(str(x)) me == "": name == name ==</pre>	// \	an integer.
	nrint /ctr/v/)	Prints the variable x, but converts it into a
me ==		string first.
		Decides whether the variable 'name' ha a
name ==	"Fred":	value which is equal to 'Fred'.
name ==		The other option if the conditions for an if
name ==	else:	statement are not met (eg. name = 'Bob' when
name ==		it should be Fred)
		elif (short for else if) is for when the first if
		condition is not met, but you want to specify
		another option.
		# is used to make comments in code – any line
program runs.	#	which starts with a # will be ignored when the
		program runs.

Comparative Operators	Equal to	Not equal to	Greater than	Less than	Greater than or equal to	Less than or equal to
Comp	#	=	^	v	*	₩

Key vocabulary	
Python	A high level programming language.
Programming	The process of writing computer programs.
Code	The instructions that a program uses.
Sequence	Parts of the code that run in order and the pathway of the
	program reads and runs very line in order.
Selection	Selects a pathways through the code based on whether a
	condition is true
Iteration	Code is repeated (looped), either while something is true or
	for a number of times
Algorithm	A set of rules/instructions to be followed by a computer
	system
Variable	A value that will change whilst the program is executed.
	(eg. temperature, speed)
Comparative	When comparing data, an operator is used to solve the
Operator	equality such as <>, != or ==
Syntax	The punctuation/way that code has to be written so that
	the computer can understand it. Each programming
	language has its own syntax.
Data Type	This indicates how the data will be stored. The most
	common data types are integer, string, and float/real.
String	A collection of letters, numbers or characters. (eg, Hello,
	WR10 1XA)
Integer	A whole number. (eg. 1, 189)
Float/Real	A decimal number, not a whole number. (eg. 3.14, -26.9)
Boolean	1 of 2 values. (eg. True, False, Yes, No)

Computing

 These can be: mechanical, e.g. beating, creaming, rolling and folding, sieving, whisking; chemical, e.g. baking powder, baking powder, self-raising flour; biological, e.g. yeast. Different foods may use one or more of these to achieve a desirable end result. 	es, browning, e.g. flour in a bread roll raising, e.g. yeast in bread setting, e.g. scrambled eggs thickening, e.g. flour in a roux sauce
Raising agents are added to most baked products during the making process using gas, steam or air which, when heated, expands causing the food to swell and rise up.	Functional characteristics of ingredients Ingredients provide a variety of functions in recipes, such as: dextrinisation aeration coagulation gelatinisation

DT - Food & Nutrition

Year 8 Functional characteristics of food

Community

Keyword	Definition
Continuous improvement	The identification of improvements and subsequent evolution of products.
Functionality	How well a product carries out its purpose.
Iterative design	Design methodology based on a cyclical process of analysing, prototyping and testing to refine a product. Each iteration and result starts the process again.
Physical properties	Properties that refer to the actual matter that forms the material (e.g. insulation, conductivity, fusibility).
Prototype	An early model or sample of a product used to test a concept.
User centered design	Design development with the user at the centre of the focus. The designer tries to envisage how the product will actually be used, as opposed to focusing on other areas such as cost.
Biological raising agent	Using yeast to produce CO ₂ gas.
Chemical raising agent	Uses baking powder or bicarbonate of soda to produce CO ₂ gas.
Mechanical raising agent	Whisking, beating, sieving, creaming, rubbing in or folding to trap air into the mixture.

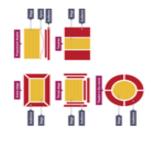
Design & Technology

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Drama Strategies:		Key Words	Key Words and Phrases
		Style and	The methor
Voice-Over:	Narration heard over what is seen on stage.	Form:	
Tableaux:	Participants make still images with their bodies to represent a scene. A tableau can be used to quickly establish a scene that involves many		
	characters.	Non-	
	At this point, <u>thought tracking</u> can be used to find out more about each of the characters.	Naturalistic:	: is realistic. Soundscape
Soundscape:	Using voices or body percussion to create (like a landscape, only in sound) a particular theme or mood. e.g., the city at night	Physical Theatre:	Theatre wh in dance an
Soliloquy:	Act of speaking one's thoughts aloud when by oneself or regardless of any hearers.	Sumholiem	
Flashback/Flash Forwards:	Improvised scenes which take place seconds, minutes, days, or years before or after.		
Choral Speech:	Speaking or chanting at the same time		can usually
Thought-Tracking:	Speaking aloud the thoughts or feelings of a character in a freeze-frame.		-
Still Image/freeze frame:	It is like pressing the pause button on a remote control, taking a photo, or making a statue	Naturalism:	
Conscience Alley:	One person walks down an alleyway made by the group and listens to thoughts or advice	Protagonist:	
Cross-Cutting:	Two or more scenes are performed on stage at the same time. This makes it provides the providence creates or colonear of creates that have a	Antagonist:	Opponent (
	at different times or in different places, using separate areas of the performance space. The technique is used to highlight or contrast a	Choreography:	hy: The art or p sequences.
	particular theme or aspect of the story. Using different groupings, both scenes could happen at the same time, or one could be frozen while the	Fourth wall;	A performa wall separa
	ouner connes anive. This can nave a summar effect to spounghuing areas of the stage.	Proximity:	How close (
Narration and Narrating:	A technique whereby one or more performers speak directly to the audience to tell a story, give information.		gangster wi inches.
Multiple Roles:	Having more than one character in an improvised drama		
Marking the Moment:	A technique used to highlight a key moment in a scene or improvisation. This can be done in several different ways: for example, through slow- motion, a freeze-frame, narration, thought tracking or music. It has a similar effect to using a spotlight to focus attention on one area of the stage at a particular moment during a performance.	Proscenium Stage Traverse Stage Theatre-in-the-Ro Promenade Theat	Proscenium Stage Traverse Stage Theatre-in-the-Round Promenade Theatre
Forum Theatre:	Audience stopping the performance and improving the action through feedback or by taking on the role of one character	Thrust Stage	ge

style and Form:	The methods used to tell a story i.e. mime of physical theatre.
Non- Naturalistic:	Where no-one is pretending that what is happening on stage is realistic. Non- naturalistic techniques include slow motion & Soundscape.
Physical Theatre:	Theatre which emphasizes the use of physical movement, as in dance and mime, for expression.
Symbolism:	Symbolism in terms of theatre can be done with colour, movement, characters, props, and costumes. (The symbol can bring about greater meaning than any literal suggestion and can usually be used to represent something different than what you will see at face value.)
Naturalism:	Theatre that attempts to create an illusion of reality through a range of dramatic and theatrical strategies
Protagonist:	Main character in a play.
Antagonist:	Opponent or foil of the main character.
Choreography:	The art or practice of designing choreographic/movement sequences.
Fourth wall;	A performance convention in which an invisible, imagined wall separates actors from the audience.
Proximity:	How close or far you are from your co-performers can be a source of very powerful impact. For example, the threatening gangster who speaks to his victim from perhaps a couple of inches.



Ambition

Drama

'Oliver Twist' Knowledge Organiser

Key Vocabulary a	and Definitions	
Etymology (OE- 0	Old English, F-French, L- Latin, G- Germanic, AG – Ancient Greek, N -	Norse
Anti-Semitic (adjective)	hostile to or prejudiced against Jewish people	(G) antisemitisch
Champion (noun and verb)	(noun) winner (verb) vigorously support or defend the cause of.	(L) campionen: gladiator, fighter
Conclude (verb)	Come to an end Arrive at an opinion by reasoning	(L) concludere: to shut up, enclose
Discordant (adjective)	Disagreeing (of sounds) harsh and jarring because of a lack of harmony	(L) discordare: to differ, quarrel
Emerge (verb)	move out of or away from something and become visible	(L) emergere: bring forth, bring to light
Fervent (adjective)	having or displaying a passionate intensity	(L) ferventum: boiling hot, glowing
Hierarchy (verb)	a system in which members of a society are ranked according to relative status or authority.	(G) hierarkhia: rule of a high priest
Honourable (adjective)	principled, moral, just, fair, honest, virtuous, trustworthy	(L) honorabilis: of high rank
Loathsome (adjective)	causing hatred or disgust; repulsive	(OE) loath: disgust
Obscure (verb and adjective)	(verb) keep from being seen; conceal. (adjective) not discovered or known about; uncertain.	(L) obscurus: dark
Obtain (verb)	get, acquire, or secure (something)	(L) obtinere: gain
Resolve (verb)	Find a solution Decide firmly on a course of action	(L) resolvere: loosen, dissolve
Stealthily (adverb)	in a cautious and surreptitious manner, so as not to be seen or heard	(OE) stelan: steal
Tumult (noun)	a loud, confused noise, especially one caused by a large mass of people	(F) tumulte: uproar
Vulnerable (adjective)	exposed to the possibility of being attacked or harmed, either physically or emotionally.	(L) vulnus: wound

English

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	Key Terms			Year 8 Topic 2 Focus on Africa
	Disposable income	income	the amount of money left to spend on	\checkmark Africa is a continent, with 54 countries; these are very diverse,
			what you want, once bills have been paid	with many geographical, social and cultural contrasts.
	Colonies		areas controlled by another country	\checkmark Africa has many different types of landscapes, from deserts to
	Subsistence		farmers who grow only enough food to	rainforests and mountains.
	farmers		feed themselves and their families,	\checkmark Africa has many natural resources, such as oil, diamonds, gold
			leaving little to sell	\checkmark Africa has been the home to many different groups and
	Informal work	ork	jobs that pay cash-in-hand. Worlers don't	civilisations throughout history.
			pay tax but also don't receive benefits	\checkmark More and more people in Africa are moving to towns and cities.
			such as sick pay	In rural areas most people are subsistence farmers, and in cities
	Sparsely		few people live there	many people do informal work.
	populated			\checkmark Africa has more young people than anywhere else in the world –
G	Terrain		the physical characteristics of land, such	this brings benefits and challenges for the future.
ie			as rocky or mountainous	\checkmark Few people live in the Sahara because it is very dry and very hot.
• C	Traditional		groups of people who have lived in a	It is difficult to find water, and there is little vegetation.
) (societies		place for a very long time, passing down	\checkmark Desertification is caused by drought, lower rainfall due to climate
gr			knwledge and customs through many	change, population growth, and human activity such as
6			generations	overgrazing.
ıp	Nomads		people who move from place to place,	\checkmark The Great Green Wall is a scheme to create a wide boundary of
)ł			travelling with their animals to find	trees and vegetation along the southern edge of the Sahara, to
Ŋ			grazing	help reduce desertification.
	Semi-nomadic	dic	nomadic people who move from place to	\checkmark Nigeria has a variety of different landscapes, and has four
			place, but may also stay in one area for a	different biomes: desert, rainforest, tropical savannah and semi-
			while to grow crops	arid savannah.
	Desertification	ion	where the land is being turned into	\checkmark Nigeria has the largest population of any African country and a
			desert, often through overuse	high proportion of young people especially in Lagos.
	Over-grazing	20	when animals eat too many plants so the	Around half the population live in towns and cities
			vegetation cannot rrecover properly	\checkmark Nigeria has experienced rapid economic development in recent
	Hydro-electric	ric	electricity made by water flowing	decades. New industries have developed, bringing jobs and
	power		through turbines in a dam	increased wealth.
	Corrupt		not honest	Nigeria's growth has improved the quality of life for many people,
				with better health, education and job opportunities but also brought
				בכטווטוווג' אטנופו פוות בוואו טוווובוונפו רוופוובוופב וטו ווופווא אבטאבי
Community	oddo	Opportunity	"Inspiring Education for All"	Enjoyment Success

Geography

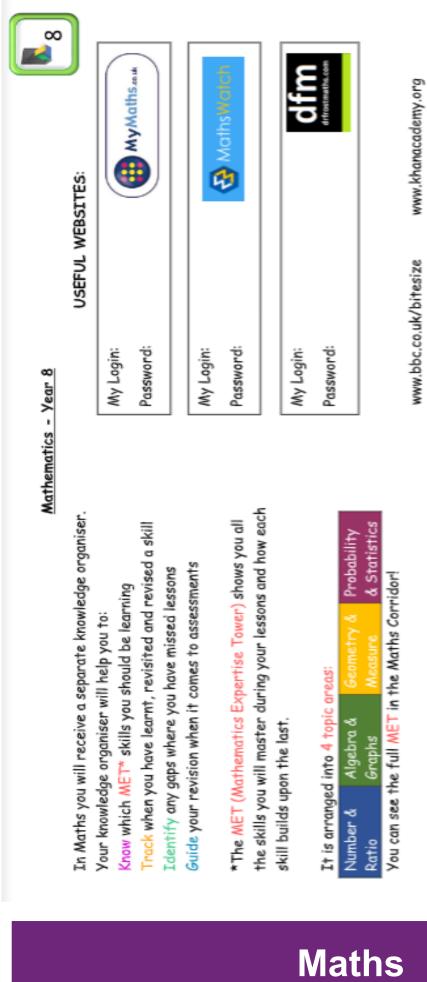
11

D. ~		
Key Figures	Key Points	Key Words
Harriet Tubman – An ex-slave who became a	Declaration of Independence – A document	Democracy – A way of running a country. People
leading figure in the Underground Railroad, helped	signed by the 'founding fathers' that said the USA	vote for who they want to be in charge.
hundreds of slaves escape.	was no longer controlled by Britain	Pilgrim – People who move to a different country
Nat Turner – A slave who led a violent rebellion	The Underground Railroad – A secret organisation	for religious reasons.
against their owners. The rebellion resulted in	that helped slaves escape and move north	Indigenous people – people who are originally
many deaths.	Manifest Destiny – A belief that it was Americans'	from an area (e.g. Native Americans)
Pocahontas - A Native American girl who married	right to move west and take land in the name of	Independence – Not being controlled by another
an English soldier and visited Queen Elizabeth	Christianity	country
George Washington – The First President of the	Emancipation Proclamation – A law passed by	Resistance – Refusing to accept something and
USA, he was a leader in making the USA an	Lincoln that made Slavery illegal in the United	showing it, it can be violent or non-violent
independent country.	States	Colony – A country that is controlled by another
Thomas Jefferson – A 'founding father' of the USA,	The US Civil War – A war between the Northern	country. e.g. America was a colony of Britain
he was the leading author of the Declaration of	states and the Southern States, the North was	Migration – people moving from one part of a
Independence	against slavery, the South supported slavery	country to another part
Abraham Lincoln – President of the USA, led the	Battle of Little Bighorn – The most famous battle	Civil War – A war between two groups from the
North during the Civil War and ended slavery	with Native Americans, it was a total failure for the 🔎	same country
	US army	
	Key Questions	
Why did Slavery end? There were many reasons - Slaves had long resisted and rebelled against their masters, finally, Abraham Lincoln ended Slavery during the Civil War with	I long resisted and rebelled against their masters, finally, Ab	raham Lincoln ended Slavery during the Civil War with
the Emancipation Proclamation		
What is a State in the USA? A state is a division of the USA, states can control some laws by themselves. Originally there were 13 states, now there are 50. Did Christopher Columbus really discover America? No, people had been living in America for thousands of years, Europeans found out about it with Christopher Columbus.	tates can control some laws by themselves. Originally there ple had been living in America for thousands of years, Europ	were 13 states, now there are 50. eans found out about it with Christopher Columbus.
Christonher Columbus		
lands in America (1492) First English settlement at		ancipation Proclamat signed (1863)
Jamestown (1607)	United states declares Indian Ke Indian Ke (18	Indian Removal Act Battle of Little Bighorn (1830) (1830)
1492		1900
Attempted colony at The First Thanksgiving Roanoke (1587) (1621)	anksgiving Slavery ended in Britain Nat Turner's rebellion (1831) (1831)	tebellion US Civil War (1861-1865) (1831)

History

How did Europeans impact America?

12



Maths Equipment you must have every lesson:

https://corbettmaths.com

Pen, pencil, rubber, ruler, prortactor, compasses, scientific calculator





Community

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MFL - French

Opinions about clothes

fashionable	classy	unbelievable	essential	practical	brilliant
à la mode	classe	incroyable	indispensable	pratique	top

Time expressions

	Do you do it often?	often	sometimes	once a day	twice	always	every day	every evening	at the weekend	
•	Tu en fais souvent?	souvent	quelquefois	une fois par jour	deux fois	toujours	tous les jours	tous les soirs	le week-end	

 le dimanche après-midi le jeudi dimanche	on Sunday afternoons on Thursdays on Sunday
הבווחמוור	IO IN III IN I

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Telling the time and weekend activities	ekend activities
Quelle heure est-il?	What time is it?
ll est	It is
quand	when
midi	midday
minuit	midnight
une heure	one o'clock
une heure dix	ten past one
une heure et quart	a quarter past one
une heure et demie	half past one
une heure moins le quart	a quarter to one
une heure moins dix	ten to one
J'écoute de la musique.	I listen to music.
Je joue sur ma console	l play on my games
de jeux vidéo.	console.
Je reste à la maison.	I stay at home.
Je surfe sur Internet.	I surf the net.
Je télécharge de la	I download music.
musique.	
Je vais en ville.	I go to town.
bloguer	to blog
envoyer	to send
partager	to share
passer	to spend
se coucher	to go to bed
s'entraîner	to train, practise
se lever	to get up
surfer	to surf
tchater	to chat

Die Jeans ist cool!	Jeans are cool!	Cool e Outfits	Cool outifts	Die Hose ist zu klein!	The trousers are too
die Ballerinas	pumps/ballerina shoes	Ich trage	/ wear		small
die Bluse	blouse	Talata tagat	Undekn		
das Hemd	shirt	crisie tragt	ne/sne wears	Mein Outtit ist zu alt.	My outfit is too old.
die Hose	trousers	einen gelben Rock	a yellow skirt	Ich werde einkaufen gehen.	l'Il do shopping.
die Jeans	jeans	ein teures Kleid	an expensive dress	toh wordo baufan	111 kuu
der Kapuzenpullover	hoodie	eine schwarze Jacke	a hlack iackat	ICII MEINE VANIEII.	111 DUY
das Kleid	dress		··· a black javnet	Ich werde (ihn) umtauschen.	l'il exchange it.
die Lederjacke	leather jacket	lassige Shorts	casual shorts	Ich warda tragen	l'II woor
der Mantel	coat	normalerweise	normally/usually		
der Pullover	jumper	Ich möchte tragen.	I'd like to wear	ein Großer Kleiner	a size smaller
der Rock	skirt	Ich mächte keufen	Pd like to huv	ein Größer größer	a size bigger
die Shorts	shorts			hoccor (alc)	hattar (than)
die Sportschuhe	trainers	ICN mochte einkauten genen. I d like to go snopping.	l a like to go snopping.	nessel (dis)	חבוובו (וופוו)
die Stiefel	boots	Ich möchte schick aussehen. I'd like to look smart.	I'd like to look smart.		
das T-Shirt	T-shirt				
alt	old				
altmodisch	old-fashioned			Das trage ich!	That's what I wear!
bequem	comfortable	Wir gehen einkaufen!	We're going shopping!	Was tränst du nern?	What do vou like wearing?
billig	cheap	Min findnet du 2	Mhat do vay think of 9		
bunt	multicoloured			Ich trage (am liebsten)	My ravourite clothes are
gestreift	stripy	Ich tinde ihn/sie/es	I find it	Wo kaufst du ein?	Where do you go
hässlich	ngly	Ich finde sie (p/)	I find them		shopping?
kariert	checked	711 Arroß/klain	too hin/small	Ich kaufe meine Kleidung	I buy my clothes at
kurz	short			bei	-
lässig	casual	zu teuer	too expensive	Was tränst du in der Schule? What do vou wear et	Mhat do vou waar af
modisch	fashionable	Es steht dir gut.	It suits you.		school?
nen	new	····· Es steht dir nicht	It doesn't suit vou	1- 1 0 1-t	
schick	chic/smart			In der Schule trage ich	At school I wear
schön	beautiful	wie kann ich dir neiten?	How can I neip you?	die Schuluniform	school uniform
teuer	expensive	Ich möchte (ihn) anprobieren. I'd like to try it.	I'd like to try it.	die Desianerkleiduna	designer clothing
unbequem	uncomfortable	lch möchte (sie) kaufen.	I'd like to buy it/them.	die Krawatte	tie
wichtig	important	lah mäahta (aa) alaht karifaa	I moniple tilles to kine it		
sehr	very	ICII IIIOCIIIE (es) IIICIII KAUIEII. I WOUGUI LIIKE IO DUY II.	I WOULD LIKE TO DUY IL.	hellblau	light blue
total	totally				

MFL - German

Community

15

"Inspiring Education for All"

Definition / Example		F A C E	G B D F A	A C E G	C Db C Semitone (half step)	E A C
		Generally, notes from 'middle C' and above.		Generally, notes from 'middle C' and below.	The closest step between 2 notes	Two semitones
Keyword	1. Treble clef		Bass clef		Semitone	Tone

Music

16

KS3 PHYSICAL EDUCATION - KNOWLEDGE ORGANISER AUTUMN TERM	All students will participate in at least 4 of the following activities this term. They are Rugby, Hockey, Basketball, Netball and Trampolining	GVMNASTICS: Trampolining	<u>Spotters:</u> stand around the trampoline and ensure that the person on the trampoline is safe at all times. A spotter will prevent the trampolinist from falling off the trampoline if they get too close to the sides or the ends.	<u>Basic Jumps:</u> tuck, pike and straddle	<u>Basic landing positions:</u> Seat landing, Front landing and Back landing	<u>Combinations</u> : Seat to front, front to seat, seat $\frac{1}{2}$ twist to feet, $\frac{1}{2}$ twist to seat, front $\frac{1}{2}$ twist to feet, $\frac{1}{2}$ twist to front	<u>Twists:</u> Swivel hips, Back } twist to feet, } twist into back	<u>Advanced twists:</u> Roller, Cradle, Cat twist, Half turntable, Full turntable	<u>Basic Somersaults:</u> Hands and knees turnover to feet, back pullover to feet, Back pullover to front, Back to front landing, ³ / ₄ front to back landing, Front somersault, Back somersault	Enjoyment
KS3 PHYSICAL EDUCATION AUTUM	All students will participate in at least They are Rugby, Hockey, Baske	INVASION GAMES: Rugby, Hockey, Netball and Basketball	<u>Invasion games:</u> Team games in which the purpose is to 'invade' the opposition's territory to score points whilst trying to make sure the other team does not score.	<u>Receiving the ball:</u> when you catch a ball or receive the ball with a stick	<u>Passing the ball:</u> throwing a ball to your teammate or passing it with your stick to a teammate.	<u>Spatial awareness:</u> when you recognise your position in relation to your opponent and the ball/object you are playing with.	<u>Defending strategies:</u> defending a space or area to stop your opponents from scoring. Defending the goal or try line.	<u>Attacking strategies:</u> Creating space for yourself and your teammates. Moving into space to receive a pass.	<u>Tackling:</u> forcing your opponent to lose possession of the ball in order for you or your teammates to gain possession.	Opportunity "Incerising Education for All"

The number of the part	Plants & Photosynthesis			1	KEYWORD	DEFINITION
Image: construction of the point of the	ers. Plants use glucose as rtissue. Some glucose is	How are new plants made? Plants rep pollen grains and ovules join. After fer	roduce sexually to pro rtilisation, the fruit an	oduce seeds. These seeds form after id seed are formed.	Anther	The male part of the flower that produces pollen.
Image: Control of the first of the firs	ction in which plants take diverser from the coil	Real Property in the second se	Y	X	Carpel	The female part of the flower, made up on the stigma where the pollen lands, style
Term Term Term Term Term Term Term	od) and oxygen (waste		0	0	Fertilisation	and ovary. Joining of a nucleus from a male and female sex cell.
Texture Texture Texture Texture Texture Second show mound in which mean mean mean mean mean mean mean mean					Filament	The part of a flower that holds up the anther.
Sterior DEFINITION Structures: : : Seed cost > tough outer layer 1. Seed cost > tough outer layer : Embryo > young root and shoot 2. Embryo > young root and shoot : Food store > store of food (store > store of food (store)) Owner Owner 1. Stoot : Food store > store of food (store) > young root have leaves; sterns or multip it can photosynthesis and item underwater. Deficiency Alex of minerals that causes poor roots. Owners 1. Water > seed swells and (store) : Owners) Deficiency Alex of minerals that causes poor roots. Owners 3. Warmth > speeds up resolution : Somethy minerals that causes poor roots. Deficiency growth. Deficiency growth. Owners 1. Water > speeds up resolution indicator used to the for the presence roots. Doffee of starch it will um blue/black. Doffee of starch it will um blue/black. Doffee of starch it will um blue/black. 1. Marmth > speeds up resolutions (resolutions of food the set of the presence roots. Doffee of starch it will um blue/black. Doffee of starch it will um blue/black. Doffee of starch it will um blue/black. 1. Marmth > speeds up resolutions (resolutions of food to starch will um blue/black. Doffee of starch it will um blue/black.	phyll	The tube grows out of the pollen grain and down through the style.	The pollen nucleus moves down the tube.	The pollien nucleus joins with the oxule nucleus. Fertilisation takes place and a seed will form.	Fruit	Structure that the ovary becomes after fertilisation,
Steros Date function Date function Date function structures: 1. Second cast > tough outer layer 1. Second cast > tough outer layer 0.ary attructures: 1. Second cast > tough outer layer 0.ary 0.ary shoot 1. Second store > store of food store > store of store > store of store > store of store > store > cools. 0.ary 1. Water > speeds up respiration (energy) 3. Warmth > speeds up respiration (energy) 0.ary 0.ary 3. Warmth > speeds up respiration (energy) 0.ary Alack of minerals that causes poor 0.ary 3. Warmth > speeds up respiration (energy) 0.ary 0.ary 0.ary 0.ary 3. Warmth > speeds up 0.ary 0.ary 0.ary 0.ary 0.ary 3. Warmth > speeds up 0.argen > respiration (energy) 0.ary 0.ary 0.ary 0.ary 3. Warmth > speeds	ight					William contains accus. The neriod of time when a
 an other layer Enclore -> store of foud shoot Enclore -> store of foud shoot Enclore -> store of foud starch the young plant uses until it can photosynthesis and it can photosynthesis and it can photosynthesis Food store -> store of foud (starch) the young plant uses until it can photosynthesis and it can photosynthesis Food store -> store of foud (starch) the young plant uses until it can photosynthesis and it can photosynthesis Food store -> store of foud (starch) the young plant uses and it can photosynthesis Covgen -> respiration (energy). Covgen -> respiration (energy	- CeH1206 + 602 control	SEEDS have three important	KEYWORD	DEFINITION Green Initially lar or multi-relly dar	Germination	seed starts to grow.
 Food store > store of food (starch) the young plant uses until it can photosynthesise. Food store > store of food (starch) the young plant uses until it can photosynthesise. Food store > store of food (starch) the young plant uses until it can photosynthesise. To germinate a seeds needs: To germinate a seeds needs: 		autocures. 1. Seed coat → tough outer layer 2. Embruo → voune root and	Algae	organisms that perform bhotosynthesis and live underviater	Ovary	The part of a flower that contains ovules.
(starch) the young plant uses until it can photosynthesise. Chlorophylit which absorbs light energy. Chlorophylit which absorbs light energy. Petalse To germinate a seeds needs: embryo can grow. 1. Watter \Rightarrow seed swells and embryo can grow. Deficiency Alack of minerals that causes poor Pollen 9. Warmth \Rightarrow speeds up reactions 0. Wygen \Rightarrow respiration (energy) Deficiency Pickies Pollen 9. Warmth \Rightarrow speeds up reactions Magnesium Mineral meeded by plants for making Pollen 9. Warmth \Rightarrow speeds up reactions Mineral containing minerals that causes poor Pollen Pollen 9. Warmth \Rightarrow speeds up reactions Mineral needed by plants for making Pollen Pollen 10. Mineral containing minerals that causes poor Pollen Pollen Pollen 11. Magnesium Mineral containing minerals that makes Pollen Pollen 11. Mineral containing phosphorus (P) for Nitrates Pollen Pollen 11. Mineral containing phosphorus (P) for Pollen Seed Pollen 11. Mineral containing phosphorus (P) for Pollen Pollen Seed Pollen 11. Magnesium Process plants use to make their own Pollen Seed	ifferent plants (cross-			They do not have leaves, stems or roots.	Owles	Female sex cells in plants found in the ovary.
To germinate a seeds needs: Deficiency Alack of minerals that causes poor growth. 1. Water > seed swells and embry or an grow. 2. Oxygen > respiration (energy) Pollen 3. Warmth > speeds up Polline Polline 4. Marmth > speeds up Polline Polline 9. Magnesium Polline Polline 1. Magnesium Mineral containing minerals that Polline 1. Mineral containing minerals that Polline Polline 1. Mineral containing minerals that Poline Polline	nale and female parts Mination).	(starch) the young plant uses until it can photosynthesise.		Green pigment in plants and algae which absorbs light energy.	Petals	A brightly coloured part of a flower that attracts insects
1. Water 3 seed swells and embryo can grow. 1. Water 3 seed swells and embryo can grow. 1. Water 3 seed swells and embryo can grow. 1. Water 3 seed swells and embryo can grow. 2. Oxygen 3 respiration (energy) 0 0 1. Warmth 3 speeds up reactions 1. Warmth 3 speeds up reactions 0 0 0 1. Warmth 3 speeds up reactions 1. Warmth 3 speeds up reactions 0 0 0 1. Warmth 3 speeds up reactions 1. Warmth 3 speeds up reactions 0 0 0 1. Warmth 3 speeds up reactions 1. Warmth 3 speeds up reactions 0 0 0 0 1. Warmth 4 speeds 1. Winetal needed by plants for the presence reactions 0 0 0 0 0 1. Magnesium Minetal containing nitrogen (N) for Nitrates Nitrates Nitrates 0 0 0 0 1. Minetal containing nitrogen (N) for Nitrates Nitrates Process plants use to make their own Seed 0 0 1. Minetal needed by plants for healthy nocis. Process plants use to make their own Seed 0 0 0 0 0 0 0 0 0 0 0 0 0 <th>by wind, insects, or</th> <th>To germinate a seeds needs:</th> <th></th> <td>A lack of minerals that causes poor growth.</td> <th>Pollen</th> <td>Contains the plant male sex</td>	by wind, insects, or	To germinate a seeds needs:		A lack of minerals that causes poor growth.	Pollen	Contains the plant male sex
Instrumtion		 Water → seed swells and embryo can grow 		Chemicals containing minerals that		cells round on the stamens. Transfer of pollen from the
reactions Magnesium Mineral needed by plants for making Anagnesium chlorophyl. Seed Aname Mineral containing nitrogen (N) for Nitrates Aname Mineral containing nitrogen (N) for Seed Aname Mineral containing nitrogen (N) for Seed Aname Mineral containing nitrogen (N) for Seed Aname Mineral containing phosphorus (P) for Nitrates Aname Phosphates Mineral containing phosphorus (P) for Seed Aname Phosphates Phosphates Phosphates Phosphates Aname Phosphates Phosphates Phosphorus (P) for Seed Aname Phosphates Phosphates Phosphorus (P) for Seed Aname Phosphates Phosphorus (P) for Seed Seed Aname Phosphates Phosphorus (P) for Seed Seed Aname Phosphates Phosphorus (P) for Seed Seed Aname Phosphates Photosymptesis Seed Seed Seed Aname Phosphates Photosymptesis Seed	Pollen falls from nsect onto stigma			Indicator used to test for the presence of starch. It will turn blue/black.	Pollination	male part of the flower to the female part of the flower on
Anotype: Anootype: Anootype: <		reactions	Magnesium	Mineral needed by plants for making		the same or anomer plant. Structure that contains the
Nurates healthy growth. Atamen Alament healthy growth. Atamen Alament Prosphates Mineral containing phosphorus (P) for Seed Atamen Anotosynthesis Process plants use to make their own Sepal Sepal Outosynthesis Forcess plants use to make their own Depalsion Sepal Sepal Outosynthesis Cord. Droducer Organism that makes its own food Stamen Sepal Stomata Producer Organism that makes its own food Stamen Stamen Stamen Stomata Producer Organism that makes its own food Stamen Stamen Stamen Stomata Pores at the bottoon of a leaf which Stepal Stamen Stepal Stepal				Mineral containing nitrogen (N) for	sea	embryo of a new plant.
Prosphates Mineral containing phosphorus (P) for dispersal healthy roots. Phosphates Mineral containing phosphorus (P) for dispersal healthy roots. Photosynthesis Process plants use to make their own bodd. Producer Organism that makes its own food using photosynthesis. Producer Organism that makes its own food using photosynthesis. Stamen Stamen Stamen Stamen		Detal		healthy growth.	Seed	The movement of seeds away
Internet Separation Internet Photosynthesis Process plants use to make their own Photosynthesis Food. Photosynthesis Food. Photosynthesis Food. Photosynthesis Process plants use to make their own Photosynthesis Process plants for healthy Photosynthesis Producer Producer Using photosynthesis. Stomata Pores at the bottoon of a leaf which Open and dose to let gases in and out. Stigma	u 9	stigma		Mineral containing phosphorus (P) for healthy roots.	aispersal	rrom me parent plant. The special leaves found
Potassium Mineral needed by plants for healthy Producer Organism that makes its own food Producer Organism that makes its own food Stigma Stigma Stomata Open and dose to let gases in and out.	-	style	<u> </u>	Process plants use to make their own food.	Sepal	under the flower, which protect unopen buds.
Producer Organism that makes its own food Producer Organism that makes its own food Stigma Producer Stomata Pores at the bottoon of a leaf which Open and dose to let gases in and out.	FLOWER			Mineral needed by plants for healthy leaves and flowers.	Stamen	The male reproductive parts of the flower.
Stomata Pores at the bottom of a leaf which ovule sepal style open and close to let gases in and out.	all and the second s			Organism that makes its own food using photosynthesis.	Stiema	The female part of a flower that is sticky to catch grains of
style				Pores at the bottom of a leaf which open and close to let pases in and out	2	pollen.
		ovule /			Style	The female part of a flower that holds up the stigma.

Science

Ambition

"Inspiring Education for All"

Ecosystems

FOOD CHAINS

- The arrows show the transfer of energy (stored in food) from one organism to the next.
- by heating and as waste; this means that at each level less energy is being transferred to the next Some energy is transferred to the surroundings organism.
- The top predator is always the last link in the food chain.





carnivore

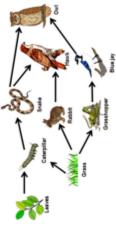
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FOOD WEBS AND INTERDEPENDENCE

Organisms in a food chain depend on each other A food web is a set of linked food chains. for survival (interdependent). Populations of organisms are constantly changing. The size of a population is affected by: Number of predators and prey

Science

- Disease
 - Pollution
- Competition



decrease, due to a disease, the number of hawks would also decrease as they would have less to Some organisms, like the rabbit, have just one predator (hawk). If the number of rabbits eat. Decomposers (bacteria and fungi) are also found in food webs

Minerals

 Water Space

Light

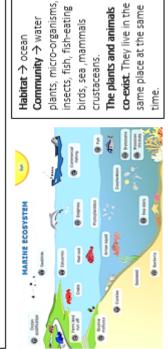


As these chemicals are washed into rivers and end up in the sea, they are

 Seals eat the fish and the chemicals pass into their body. absorbed by fish in small amounts.

 The levels of the chemical build-up (accumulate) in seals as they eat lots of fish.

accumulates to a dangerous level. This makes the polar bear ill and can Polar bears eat seals, as one polar bear eats lots of seals, the chemical cause death.







but slightly different niches

Animals compete for:

Water

Food

COMPETITION

Predator

predators have more to eat. The number of predators increases, as they survive longer When the prey population increases, the Changes in population of one animal can directly affect the population of another. Time

 The growing predator population eats more and reproduce more.

The best competitors will

 Mates (to reproduce) Space (hunt/shelter)

be fast, strong and quick

to spot their prey.

 There is not enough food for all the prey. They number of prey fall.

Plants compete for:

- As there are fewer predators feeding on predators so their numbers decrease.
 - prey, the prey population will increase. The cycle starts again.

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Enjoyment

KEYWORD	DEFINITION
Bioaccumulation	The build-up of toxic chemicals inside organisms in a food chain.
Carnivore	A consumer (animal) that eats other animals.
Community	The collection of the different types of organisms present in an ecosystem.
Competition	Competing with other organisms for resources.
Consumer	Animal that eats other animals or plants.
Decomposer	Organism that breaks down dead plants and animal material so nutrients can be recycled back to the soil or water.
Ecosystem	The living things (plants and animals) in a given area and their non-living environment.
Environment	The surrounding air, water and soil where an organism lives.
Food chain	Part of a food web, starting with producer and ending with top predator. This diagram shows the transfer of energy between organisms.
Food web	A diagram that shows how food chains in an ecosystem are linked.
Habitat	The area in which an organism lives.
Herbivore	A consumer (animal) that eats plants.
Interdependence	The way in which living organisms depend on each other to survive, grow and reproduce.
Niche	A particular place or role that an organism has in an ecosystem.
Omnivore	A consumer (animal) that eats plants and animals.
Population	Group of the same species living in an area.
Predator	An animal that eats other animals.
Prey	An animal that is eaten by another animal.

using sunlight by the process of photosynthesis Green plant or algae that makes its own food

Producer