Knowledge Organiser

Autumn Term – Year 7



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ART FUNDAMENTALS | YEAR 7 | ART | TERM 1

						<u> </u>						
S	TEP BY ST	EP DRAWING P	PROCESS			KEYWORDS					ARTISTS	S AND INSPIRATION
		other to ensure	s of	1	Proportion	The size of one thing compare the size of another	d to		Gogh			Dutch painter known for his use of bright colours and expressive
Measure 1 and	Measure and		ects against each er to ensure accurate portions. Plot the key	2	Centre Line	A line of symmetry can help you draw objects that are the same both sides			2	1853- Fried	1890 ensreich	brush strokes. Austrian painter, printmaker,
	plan	measurements	before	3	Line drawing	Drawing made with lines only				Hund 1928-	ertwasser 2000	and architect best known for his paintings characterized
		commencing to	o draw.	4	Shading	Adding different tones to create 3D effect			1920-2000			by colourful, ornamental, and biomorphic shapes (Onion
2	Simplify	Divide complicated objects into basic shapes		5	Composition	he arrangement of different parts of an art piece						domes, Lollipop trees, floating eyeballs, hidden faces, contour
		and lightly draw the		6	Pattern	A symbol or shape that is repe	eatec	1				lines, colourful spirals, bright
			ccurately observe the		Line	A mark which can be used to a drawing				Zenta	angle Art	colours, patterns and shapes) Consists of structured patterns and is often used as form of
3	Add detail	actual shapes and adapt the basic shapes by adding detail		8 Shape A 2D area that is enclosed by a				line				meditation. You create tangles
	detail		C3 by	9	Tone	The lightness or darkness of something						with combinations of dots, lines, simple curves, S-curves and orbs
		Add shading by layering drawing marks, making sure that you accurately observe the shape and placing of the shadows		10	Form	Something that has 3 dimens			4	Negative Space Art		Negative space is the space around objects. Studying the shapes around your subject matter can help you with
1	Add tone			11	Texture	How something feels or looks						
4	and			12	Pattern A symbol or shape that is rep		eatec	ited			more complicated drawing.	
	shading			13	Colour	What we see when light reflect something.	ts of	f			Some artists create pieces of the negative space itself.	
			COL	OUR	THEORY						PARTS	OF LIGHT
		Colour				represent all colours and their	1	High	nlight		The bright	est part of the object
1		Wheel			selection when cre	•	2		-tone -tone		The tones	between shadows and highlights
2		plementary Colours	Colou		i the opposite side on the contraction creates the contraction creates the contraction in	of the colour wheel. This		ııaıı.	-tone			
3	Ar	nalogous Colours	Colou	rs clo		the colour wheel. These	3	Core shadow		boundary be		st part of the shadow often on the petween half-tones and the shadow
4		Primary Colours				xing other colours but can be urs of the spectrum.	4	Refle	ected t	i		s reflected of other objects into the eas
					. 222011, 1121	-,		_				

Cast

shadow

Colours made by mixing two primary colours together

Y+R= Orange, Y+B= Green, B+R= Purple

Secondary

Colours

5

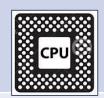
Is the dark area behind the object on the

opposite side of the light source

Term 1: Computer Systems

Hardware Components

CPU



Processes data and **instructions** in binary. Fetches them one by one from RAM and controls other components

RAM



Stores data and instructions needed to run any programs currently open. Volatile: Wiped when power is off

Storage



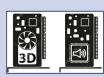
Long-term storage of programs and files. Non-volatile: Data is safe when power is off

Motherboard



Connects components together, allowing **power** and data to flow where needed

Expansion Cards



Additional cards that process graphics or sound better than CPU can do by itself

Binary Logic Gates

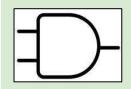
Binary

The language of 0s and 1s used by computers to make logical calculations.

0 = transistor off, 1 = transistor is on

AND

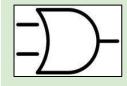
Has two inputs, one output.



Both inputs must be 1 for the output to be 1. Output will be 0 in all other cases

OR

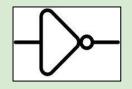
Has two inputs, one output.



Either input must be 1 for the output to be 1. Output will be 0 in all other cases

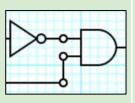
NOT

Has one input, one output.



Flips inputs so a 0 going in will output 1, 1 going in will output 0

Logic Circuits



Connecting several logic gates together to perform more complicated tasks or calculations

Input, Process, Output

All computers receive data through an input, preform some sort of process on that data and then output the result

Input Devices

Mouse, keyboard, microphone, touchscreen, joystick, scanner

Output Devices

Monitor, printer, speaker, headphones, projector

Operating Systems

- Software that connects all other apps to the hardware
- Manages resources like memory and access to the CPU
- Provides a graphical user interface (GUI) that allows the user to interact with apps and hardware

Al and Machine Learning

When a computer system

do what we might see as morally

Al	performs tasks that would need intelligence if a human did it
Machine Learning	When AI is given training data to learn from and makes its own rules based on patterns/similarities it finds
Ethics	Problems sometimes occur where machine learning systems

wrong

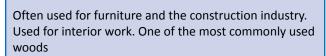
Design & Technology

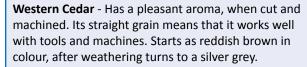
Year 7

Term 1

SOFTWOODS

Scot's Pine - Can be resinous and have plenty of knots. Coloured from light yellow to dark brown. Can be shaped and formed reasonably easily by handtools and machines.





Used for decking, furniture and general construction. Used for roof shingles, due to its resistance to all weathers.

California Redwood The cinnamon-red or bright reddish-brown bark is one way to identify redwood trees. It has recognizable spongy bark and is a dull chocolatey brown color, and the reddish bark pulls away easily.

Used for decorative purposes, such as paneling and cladding. Resistance to weather and insects makes it a natural choice for external joinery, outdoor furniture, windows and greenhouses. Durability makes it useful for vats and tanks.

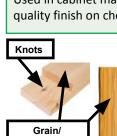
Yew - Straight grained which means it can be shaped and formed quite easily. However, the grain can sometimes be difficult to work. An oily wood that resinatural degradation from the weather and elements

Used to manufacture both interior and exterior furniture e.g. chairs, gate posts and wood turning.

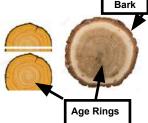








Grain Lines



HARDWOODS

European Oak - Light tan in colour and straight grained. High quality timber. Moderately hard to work with handtools. Tools should be kept sharp. Produces a high-quality finish with wax, furniture oil and varnish.

Uses include; quality furniture, cabinet making and boat building.

Beech - Pale white to pink brown in colour. Very good for steam bending. It can be worked reasonably well with hand tools and machinery.

Used for quality furniture, handles, manufacturing chairs and good for wood turning. Often used as a facing for plywood.

Ash - Cream to pale tan in colour. Tough, flexible and straight grained, very good steam bending qualities. Can be shaped and formed well with handtools. A smooth finish can be achieved and stains well.

Used for cabinet making, boats and handles of tools. Ash veneered plywood is popular.

Elm - Light brown / pale brown in colour. Can be difficult to work with handtools, due to awkward grain. Can be worked to a fine finish. Looks particularly good with a waxed finish.

Used in cabinet making, turns quite well and is used as veneer, to provide a quality finish on cheaper woods.









	Tool Name	Function
	Tenon Saw	The tenon saw is used for vertical cuts into timber and used for many timber joining methods.
1	Try Square	A try square is a woodworking tool used for marking a 90 degree angle to the edge of a piece of timber.
_	Belt Sander	A belt sander is a sander used in shaping and finishing wood and other materials. It consists of an electric motor that turns a top and bottom roller on which a continuous loop/band of sandpaper is driven.
	Smoothing Plane	A smoothing plane is a slightly smaller plane that is used to remove thin shavings of timber when used with the grain

Mirroring

Accumulation

Physical Skills

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<u>Posture</u>

The way the body is held.



<u>Alignment</u>

Correct placement of body parts in relation to each other.



Balance

A steady or held position achieved by an even distribution of weight.

Coordination

Efficient combination of body parts.



Control

The ability to start & stop movement, change direction & hold a shape efficiently.



Flexibility

The range of movement in the joints.



Strength

Muscular power.



Stamina

Ability to maintain physical and mental energy over periods of time.



Extension

Lengthening one or more muscles or limbs.

	Ехр	ressive Skills
1	Focus	The use of the eyes to enhance performance & interpretative qualities.
2	Projection	The energy the dancer uses to connect with & draw in the audience.
3	Musicality	The ability to make the unique qualities of the accompaniment evident in the performance.
4	Facial Expression	The use of the face to show mood, meaning or character.
5	Communication of the choreographic intent	The aim of the dance. What the choreographer wants to communicate to the audience.
6	Spatial Awareness	Being conscious of the surrounding space and using the space effectively.

_				
Re	lati	on	sh	ips
		٠,٢٠

dancer.

Reflecting the movements of another

phrase and other dancers in the group

gradually join in at different times so

that all end in unison.

8	Contact	The state of physical touching e.g. holding, lifting, weight bearing, etc.
9	Formations	Shapes or patterns created in space by dancers.
10		When a dancer performs a movement

	DANCE	: ACTIONS
1	TRAVEL	When a dancer moves through the space on a pathway.
2	TURN	When a dancer rotates their body around in space.
3	ELEVATION	The act of rising up, as in a jump.
4	GESTURE	A movement of part of the body in the air.
5	STILLNESS6	Remaining still in space in a held position.
6	FLOOR-WORK	Movements which take place sitting, lying or kneeling on the floor.
7	TRANSFERENCE OF WEIGHT	Shifting the weight of the body from one part to another, e.g. from the feet to the hands or hips.

DANCE ACTIONS

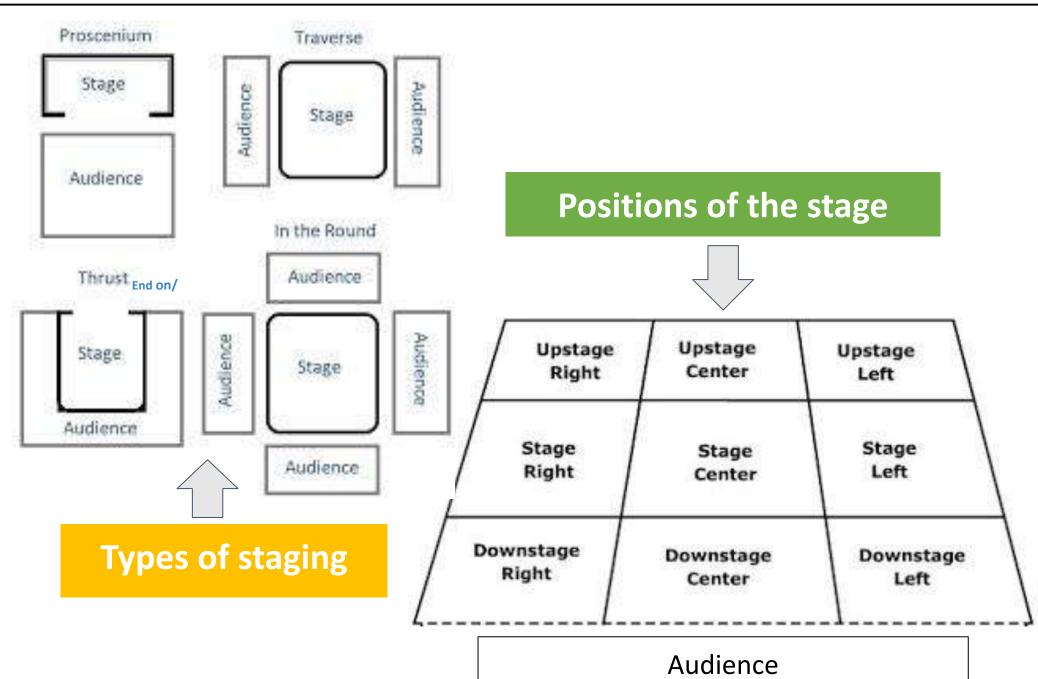




Drama: Introduction to Drama and Melodrama | Year 7 | September - December

	M	elodrama		Vo	cal Skills		Ph	ysical Skills
1	Melodrama	Melodrama is a style of theatre that was prominent in the Victorian era. It	1	Pitch	The particular level (high or low) of a voice, instrument	1	Facial Expression	Look on face which shows emotions.
	The Hero	uses exaggeration and stereotyped characters to appeal to the audience's emotions. The hero is a brave character, who has	2	Pace	or tune. The speed at which	2	Body Language	A range of nonverbal signals that you can use to communicate your feelings and intentions.
2	THE HEIO	the potential to do anything. He is the character who will typically save the heroine from her misery via the hands of the villain. The hero will fight the			someone or something moves, or with which something happens or changes.	3	Gesture	A sign that communicates a character's action, state of mind and relationship with other characters to an audience.
3	The Heroine	villain in order to get his true love back into his heart. The heroine is a character who is graceful and elegant. Her voice is loud	3	Pause	A break in speaking, period of silence.	4	Posture	Physical alignment of a performer's body, or a physical stance taken by a performer which
		but higher pitched than the males' voices. She is always captured in the plot of the drama by the villain, and by	4	Tone	This suggests your mood and your intention towards			conveys information about the character being played.
4	The Villain	the end is in the arms of the hero who is her true love. The villain is a mysterious character, a			the listener, eg happy or sad.	5	Levels	They show action in a different place/time and can reflect relationships.
4		character who is always attempting to steal away that which he desires (often the heroine). He is often already rich	5	Volume	Loudness or quietness of	6	Gait	A person's manner of walking.
5	The sidekicks	and powerful. VILLAIN'S ACCOMPLICE: male, useless, cowardly helper, sidekick,	3	volume	the voice.		(Core Skills
		comic relief. FAITHFUL SERVANT: hero's loyal	6	Emphasis	Where a performer will stress a particular word or	1	Collaboration	Working together.
		servant, does dirty work, sometimes provides comic relief though not very funny.			phrase within a sentence to indicate importance.	2	Projection	Directing the voice out of the body to be heard clearly at a distance.
6	Wise olde person	The wise and elderly person is usually a grandparent or an official of some sort. He is intelligent, and can				2	Focus	Pay particular attention to.
		sometimes even be the heroine's	7	Accent	A way of speaking in a local area or country.	3		
		mother/father. S/He is always looking out for the other characters, especially the heroine, which makes him/her a	8	Clarity of	Clearness of the voice.	4	Control	The ability to start and stop movement, change direction and hold a shape efficiently.
		form of an anonymous helper to the hero.		diction		5	Stagecraft	The process of producing or

staging a piece of film or theatre.



English | Year 7 | Origin Tales

Key Vocabulary	
Moral	Being concerned with what is right or wrong in human behaviour.
Epic hero	A brave character admired for great achievements (in an epic poem)
Fate	Acceptance that the gods controlled a person's destiny
Patriarchal	A society organised around male authority
Myth	A story concerning the early history of people
Divine	of or like God or a god.
Antagonist	a person who actively opposes or is hostile to someone or something, an adversary
Protagonist	the leading character, hero, or heroine
Folktales	Stories originating in popular culture, typically passed on by word of mouth.

Context	
Ancient Greece	Civilisation of 12-9 th Century BC
Trojan War	Mythological war waged against the city of Troy, by the Greeks, to avenge the abduction of Helen.
Old English	Language of the Anglo-Saxons (up to 1150). Germanic. Very different to modern English
Medieval	Middle Ages 118 - 149 Century England

traditionally dated from the 8th century to the 14th century

A period of cultural, economic, and scientific flourishing in the history of Islam,

England

Odysseus	Wily Greek warrior, King of Ithaca
Hector	Famed Trojan warrior who kills Patroclus
Achilles	Greatest Greek warrior with a weak heel
Paris	Prince of Troy, 'abducts' Helen
Helen	Married to King Menelaus, goes to Troy with Paris
Poseidon	God of the sea
Polyphemus	Cyclops, Poseidon's son
Literary terminology	
Epic	Length narrative poem about heroic adventures
Omniscient narrator	All knowing voice in the story
Symbol	Something used to hint at or stand for something else.
Symbolism	The use of symbols to represent ideas or qualities.
Metaphor	Description in which a word is applied to an object or action but is not literally applicable
Dialogue	Conversation between two or more characters
Personification	Attributing human characteristics to something inanimate
Epithet	A phrase expressing an attribute regarded as characteristic of a person

English | Year 7 | Antigone

A. Characters		D. Plot							
1. Creon	igone tragic heroine; daughter of Oedipus and Jocasta.		ersion	Antigone says she is going to defy the law and bury her disgraced brother. Ismene advises her not to.					
2. Antigone									
3. Ismene	ene sister of Antigone; more subservient to authority.		ee	Creon justifies why he is denying funeral rights to Polynices. A guard announces that someone has defied the decree and buried him.					
4. Haemon	non son of Creon, betrothed to Antigone as her fiancé.		ession	Antigone is brought to Creon for burying Polynices, Antigone justifies hersel					
5. Tiresias	wise blind prophet who warns Creon of his hubris.		SEMON:	Ismene sides with Antigone. Creon withdraws Haemon as Antigone's flance.					
6. Chorus	comment on the action in the play.	4. Advi	ce	Haemon advises Creon to change his mind.					
7. Oedipus	killed his father, married his mother unaware; blinded.	5. Buria	al .	Antigone is buried alive in a tomb to starve.					
8.Polynices	fought against Thebes, lost and denied burial rites.	6. Prop	hesy	Tiresias and the Chorus advise Creon to change his mind.					
9. Eteocles	Polynices' brother, properly buried.		des	Haemon, Eurydice and Antigone commit suicide, cursing Creon.					
10.Eurydice	A.Eurydice Creon's wife who commits suicide on her son's death.								
B. Stagecraft		Act 1	E. Quotations						
Protagonist	rotagonist The main character of a story		THE RESIDENCE OF THE PARTY OF T	Antigone: He is to be left unwept, unburied Antigone: I'll please the ones I'm duty bound to please.					
Tragedy	A play that deals with sad events and has an unhappy ending, often involving the downfall of its protagonist			Creon: For me, a man who rules the entire state and does not take the best advice there is, but through fear keeps his mouth forever shut, such a man is the very worst of men—and always will be. Creon: For anyone who acts against the state, its enemy, I'd never make my friend.					
Hubris	Excessive pride; extreme arrogance	1,1100000000000000000000000000000000000							
Hamartia	A character's fatal flaw – one key weakness that causes their downfat	Act 3	INCOME STORY	e: Tadmit I did it. I don't deny a thing.					
Anagnorisis	The moment in a play where a character makes a crucial discovery.		Antigone	: Never share my dying, don't lay claim to what you never touched.					
Perepeteia	A sudden change in a character's circumstances, usually turning from good to bad.	Act 4		or there's no greater evil than a lack of leadership. That destroys whole cities, useholds into ruins, and in war makes soldiers break and run away.					
Cathersis	A positive release of emotion: an audience can feel cathersis at the end of a play if justice has been served	Act 5	Antigone: Never, I tell you, would I have done it for children of my own, not mother, nor for a dead husband.						
Integrity	Having strong moral principles and doing the right thing	Act 6	III AND AND AND A	Our state is sick — your policies have done this.					
Decree	lecree An official order or law		Creon: I've changed my mind. Since I'm the one who tied her up, I'll go myself.						
To transgress	To break a boundary in society, you might refer to a character as transgressive.	Act 7		Creon. The guilt for all of this is mine—it can never be removed from me or passed to					
To lament	To passionately express grief or sorrow		anyoche	ny other mortal man. I, and I alone I murdered you Now what I am in life is nothing					

Bonjour, monsi Hello, sir Salut, madame Hi, miss Coucou Hey! Bonjour Good morning Bon après-midi Good afternooi Bonsoir Good evening Bonne nuit Good night	How are you? yes I am good/well, thank you bof ouais yeah quoi de neuf? what's new? what's new? (what's up?) rening rening nuit yes I am good/well, thank you bof ouais yeah pas mal, merci not bad thanks ren no yean pas I am not good/well je suis fatigué(e) I'm tired pas grand chose nothing much rien de spécial nothing special					au revoir goodbye à bientôt see you soon à demain see you tomorrow à la prochaine see you next time à plus (tard) see you later bonne journée have a good day			
		Je vo	oudrai	s me pre	ésenter <i>I would</i>	like to present my	self		
je m'appelle I call myself	(my nai	me is)		et and	j'ai I have (I am)	un (1) deux (2) trois (3)	vingt vingt- (21)	-	
J'habite I live Je suis né(e) I was born Je viens I come Je suis I am	Québ	is(e) ais(e) h ecois(e) ecian	Londi Paris Québ	ec		trois (3) quatre (4) cinq (5) six (6) sept (7) huit (8) neuf (9) dix (10) onze (11) douze (12) treize (13) quatorze (14) quinze (15) seize (16) dix-sept (17) dix-huit (18) dix-neuf (19) trent (21) trent (22) contact (12) treix (13) quatorze (14) quinze (15) seize (16) dix-sept (17) dix-huit (18) dix-neuf (19) trent (22)		deux trois quatre cinq six (26) sept huit neuf e (30) e-et-un	janvier January Février February mars March avril April mai May juin June juillet July août August septembre September octobre October novembre November décembre December
	Mon anniversaire c'est le My birthday is the					Premier 1st			

Dans ma	il y a		Aussi	un chat	noir <i>black</i>		
famille	there is		Also	a cat	bleu <i>blue</i>		
In my family	there is		Also	un chien	vert <i>green</i>		
, ,,			j'ai	a dog	gris <i>grey</i>		
Dans ma		moi	I have	un cheval	rose pink		
maison		1	That c	a horse	rouge <i>red</i>		
In my house		me	nous avons	un lapin	jaune <i>yellow</i>		
,		mon père	we have	a rabbit	blanc white		
Chez moi		my dad		un poisson			
At home		mon beau-père	je voudrais avoir		orange orange		
		my step dad	I would like to		3.7.3		
		mon grand-père	have	une souris	noire <i>black</i>		
		my grandad		a mouse	bleue <i>blue</i>		
		mon frère		une tortue	verte <i>green</i>		
		my brother		a tortoise	grise <i>grey</i>		
		mon demi-frère			rose <i>pink</i>		
		my half brother/ my			rouge <i>red</i>		
		step brother			jaune <i>yellow</i>		
		mon oncle			blanche white		
		my uncle			marron brown		
					orange orange		
Je dirais que		-	parce que (qu')	très	grand(e)(s) tall		
I would say the		ma mère	because	very	petit(e)(s) short		
Totala say th		my mum	because	Je.,	gros(se) big		
À mon avis		ma belle-mère	car	trop	jeune(s) young		
In my opinion.		my step mum	because	too	vieux/vieille(s) old		
,		ma grand-mère					
j'aime		my grandmother	je suis	assez	beau/belle/beaux/belles		
I like		ma sœur	I am	quite	beautiful		
		my sister		*			
j'adore		ma demi-sœur	il est	un peu	amusant(e)(s) funny		
I love		my half sister/ my	he is	a bit	patient(e)(s) patient		
		step sister			content(e)(s) happy		
je préfère		ma tante	elle est	vraiment	fort(e)(s) strong		
I prefer		my aunt	she is	really	' ' ' '		
•					pratique(s) practical		
je n'aime pas			nous sommes		populaire(s) <i>popular</i>		
I don't like		mes parents	we are		agréable(s) nice		
		my parents			responsable(s) responsible		
je déteste		mes grands-parents	ils sont		unique(s) <i>unique</i>		
I hate		my grandparents	they are				
		mes deux frères			heureux/euse(s) happy		
je ne supporte pas		my two brothers	elles sont		sérieux/euse(s) serious		
I can't stand		mes trois sœurs	they are (all		travailleur/euse(s)		
		my three sister	female)		hardworking		
					sportif/ive(s) sporty		
					gentil/gentille(s) kind		
					sympa(s) kind		

au foot football au basket basketball au tennis tennis au handball handball au hockey sur glace ice hockey aux cartes cards d'un instrument an instrument du piano the piano de la guitare the guitar During my free time Normalement Normally Généralement Generally En ce moment At the moment Quelquefois Sometimes De temps en temps From time to time Souvent Often De temps en temps Je vais I go je vais I go je vais I go au foot football au basket basketball au tennis tennis au handball handball au hockey sur glace ice hockey aux cartes cards d'un instrument an instrument with my dad avec mon fequipe with my team avec mon équipe with my team with my sister avec ma mère with my mum avec mes grands-parents with my grandparents avec mes copains with my friends avec mes anis with my grandparents with my friends avec mes anis with my grandparents with my friends avec mes potes with my mane avec mes potes with my friends avec mes potes with my friends avec mes potes with my mane avec mes potes with my mane avec mes potes with my friends avec mes potes with my friends avec mes potes with my mane avec mes potes with my friends ave

Hier Yesterday Hier soir	j'ai joué I played je vais jouer I'm going to play je voudrais jouer I would like to play	au foot football au basket basketball au tennis tennis au handball handball au hockey sur glace ice hockey aux cartes cards d'un instrument an instrument du piano the piano de la guitare the guitar	
Yesterday evening (last night)	j'ai fait <i>I did</i>		avec mon père with my dad
Le week-end dernier Last weekend			avec mon frère with my brother
Le mois dernier Last month		du sport <i>sport</i>	avec mon équipe with my team
La semaine dernière Last week	je vais faire I'm going to do	du vélo <i>cycling</i> de la natation <i>swimming</i> de la danse <i>dancing</i>	avec ma soeur with my sister
L'année dernière Last year	je voudrais faire I would like to do	de l'exercice <i>exercise</i>	avec ma mère with my mum
			avec mes grands-parents with my grandparents avec mes copains with my friends
Demain	je suis allé(e) <i>I went</i>		avec mes amis
Le week-end prochain Next weekend Le mois prochain Next month La semaine prochaine Next week L'année prochaine Next year	je vais aller I'm going to go je voudrais aller I would like to go	en ville to town au centre(-ville) to the (town) centre au centre commercial to the shopping centre au centre de loisirs to the leisure centre au parc to the park au cinéma to the cinema au théâtre to the theatre au stade to the stadium au musée to the museum à la piscine to the swimming pool aux magasins to the shops chez mon copain to my friend's house à un club de foot to a football club	avec mes potes with my mates seul(e) alone

YEAR 7 Geography | My Place in the World

Key Terms						
Human Geography	Studying what people do on the Earth.					
Physical Geography	Studying what is naturally occurring on Earth					
Environmental Geography	Human interaction with Nature					

What is Geography?

"Geography is the study of the Earth's landscapes, peoples, places and environments. It is, guite simply, the study of the world we live in."

Geography is part of your everyday life: you use it every day without even realizing!

Compass Points N F

Where is the UK? Atlantic Pacific Ocean

The united kingdom (UK) is an Island country located in the continent of Europe, it is made up of four countries: England, Scotland, Northern Ireland and Wales.



4-Figure Grid References

Along the edges of each map there are numbers. These numbers help you work out where a location is on a map. Northings are the numbers that go from bottom to top, Eastings go from left to right.



The first two numbers give the eastings



The second two numbers give the northings

Remember.... Eastings then northings!

Along the corridor and up the stairs

Map Symbols

Symbols are useful for lots of reasons including, space saving on a map, multi-lingual (all languages can understand them), saves time, clear.



Deciduous

Forest

Station







Museum









Hostel









School

View Point

Campsite

YEAR 7 | Geography | Map Skills

Atlas Skills

There are generally three main types of maps shown in an atlas.

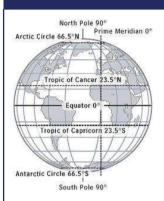


Physical Maps these show topography/relief (the shape of the land) and other physical features such as rivers and lakes.

Political Maps these show country borders, cities, transport links etc.

Thematic Maps these show information such as climate data, agriculture types etc.

Longitude and Latitude



Unlike grid lines where we go along the corridor and up the stairs, here we go **UP** and **ACROSS**

<u>LATITUDE</u>

LONGITUDE

Flat lines.

Long lines – up and down

6-Figure Grid References

We can use six-figure grid references to find an exact location within a grid square, so they are much more accurate.

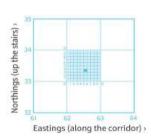
The grid square is divided into tenths.

Example:

625 333

The first three numbers give the easting which includes the number of tenths.

The last three numbers give the northing which includes the number of tenths.



Height and Relief

Relief the difference between the highest and lowest heights of an area. **Topography** the surface features of the earth like hills, mountains, valleys etc.

Layer Shading



Figure 10.8 Layer colouring

Areas of different heights are shown using different colours. A key is used to show how high the land is.

Spot Heights



The exact height of a place above the ground is measured and written onto a map.

Contour Lines

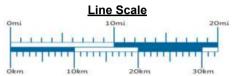


Contour lines are lines on a map which join up places of the same height. Everywhere along a contour line is the same height.

YEAR 7 | Geography | Map Skills

Scale and Distance

OS maps have a scale. On some smaller maps, 1cm on the map equals 250m in real life. On some larger maps, 1cm on the map equals 500m. Different maps might have different scales, so check on your map to find its scale.



Using a line scale on a map is as easy as using a ruler. The important thing to remember is that a line scale shows measurements in Km and the measurements on a ruler are in cm.

Word Scale

One centimetre on the map represents 3 kilometres on the ground. (1cm = 3 km)

Using the sale above, if we measure the distance on a map between two places with our ruler, the measurement is 4cm. We then have to multiply that measurement by 3 to calculate that the real distance between the two places is 12Km.

Key Terms	
Continent	A group of countries such as Europe or Africa
Ocean	A body of water. There are 5.
Longitude	A global measurement going from the North to the South Pole.
Latitude	A global measurement going around the world east to west.
Equator	This is the central line around the middle of the Earth.
Atlas	A book which contains a variety of different maps.
Political Map	A map which shows countries and their main cities
Physical Map	A map which shows the shape of the land.
Ordinance Survey	A type of map which is drawn of the UK. Has lots of information.
Co-ordinates	The way of locating the exact spot or area in the world.
Grid Reference	An area or exact spot on a map.

YEAR 7 | Geography | Oceans

World map and overview

The surface of the planet is 71% water. It contains 5 oceans: The Arctic, Atlantic, Indian, Pacific and Southern Oceans.



- The different oceans are shown by the different shades of blue on the map.
- All of the oceans are actually connected together.
- Because the oceans are so large, people sometimes break them down into even more categories, e.g. the 'Northern Atlantic' and the 'Southern Atlantic.'
- The word 'ocean' comes from Greek, meaning 'great stream.'

Ocean Currents North Particle North

	Key Terms
Ocean Trench	A deep chasm in the ocean floor, where one plate dives under another.
Ocean Ridge	A mountain ridge on the ocean floor, formed by rising magma.
Salt water	Sea water contains sodium chloride.
Continental Shelf	Where the ocean floor slopes gently away from the coast, before it plunges to the deep ocean
Coral Reefs	Formed by limestone secreted by animals. Called polyps.
Ocean Floor	The sea bed. It is mostly large flat areas covered in a muddy sediment up to 500 meters deep.
Phytoplankton	Tiny ocean plants.
Photosynthesis	Where plants make their food from carbon dioxide and water in sunlight.
Surface currents	These flow in the top 100 meters of the ocean dragged by the wind.
Underwater currents	These flow deeper in the ocean and more slowly.
Global conveyor	A system of underwater warm and cold currents .
Hydrothermal vents	These spurt out of the sea bed with hot water (over 400°) full of chemicals One theory is that life began in them.
Ocean current	A current of warm or cold water flowing within the ocean

YEAR 7 | Geography | Oceans

The 5 oceans



Pacific Ocean

- The Pacific Ocean is the largest ocean in the world. It covers nearly one-third (30%) of the Earth's surface. It separates Australia and Asia from North and South America.
 - The name Pacific Ocean means the 'peaceful sea' in Portuguese.
- Some of the main features in the Pacific Ocean include the Mariana Trench and the Hawaiian Islands.

Atlantic Ocean

Indian Ocean



- The Atlantic Ocean is the second largest ocean in the world. It covers about 20% of the earth's surface.
 It separates North and South America from Europe and Africa. It contains the Gulf Stream.
- The Indian Ocean is the third-largest ocean in the world. It is the warmest ocean in the world!
- It lies south of India and separates Australia from Africa. It contains Madagascar and Sri Lanka.

Southern Ocean



- The Southern Ocean is the second smallest ocean. It is in the southernmost part of the world around Antarctica
- -As it is so far south, much of the Southern Ocean is normally covered in ice (like the Arctic Ocean).

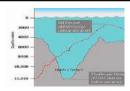
Arctic Ocean



- The Arctic Ocean is the smallest and shallowest of the world's oceans. It is in the northernmost part of the world
- For much of the year, the Arctic Ocean is covered by ice. It has lots of fresh water, from melting ice.

MARIANA TRENCH

The Mariana Trench or Mariana Trench II the depends and or the duminos occase, it is located in the exercise and or the duminos occase, it is located in the exercise Pacific Ocean, to the east of the Mariana Stands. The crench is about 2.500 inflometers in .500 miles long. The energies of the luader is of press. In .500 miles long. The energies of the luader is of press. If debt is book 1,000 miles that it aloud for crush a require submarine. All of the arinas that five in the deep so a must contend uids in these longeridging energies.



Why do we need the ocean?



It is where we believe that life began 3.8 billion years ago.



It regulates the atmosphere and controls the amount of carbon dioxide



It is a source of our drinking water, as through the water cycle it ends up in rainwater



It affects our climate due to the ocean currents. The Gulf Stream keeps the British climate mild.

The Ocean as a Resource

The oceans are not only important for our climate and water they are also a resource.

Fishing – for many people around the world fish is a main source of protein. Each year 80 million tonnes are caught.

Transport and Trade – the oceans and seas are used to move people and goods around the world.

Oil and gas —can be extracted from the ocean floor. It is done on the continental shelf where the water is shallower

Energy – The waves can create clean energy such as wave and tidal power. Off-shore wind farms make use of the strong ocean winds.

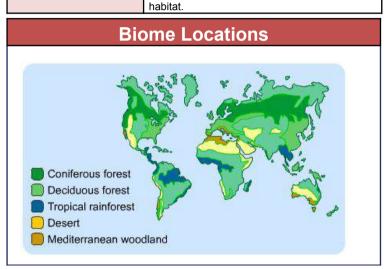
Salt - is produced by evaporating sea water.

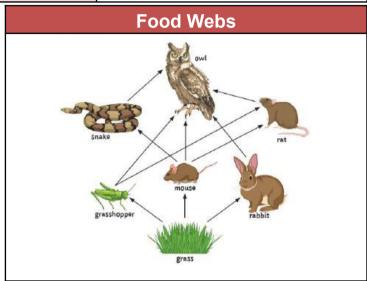
Defence – many coastal countries have a navy to defend themselves.

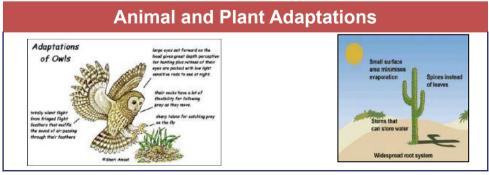
Leisure – We use the oceans for holidays by the sea, sports such as surfing, diving and swimming.

YEAR 7 | Geography | Ecosystems

Key Terms									
Producer	Make their own food through the process of photosynthesis.	Community	All the populations living in a habitat.						
Consumer	An organism that eats other plants or animals to obtain food.	Habitat	A place where organisms live.						
Population	All the members of a single species living in a								

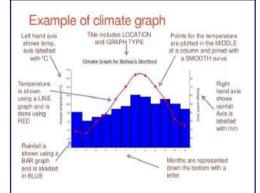






YEAR 7 | Geography | Ecosystems

Climate Graphs



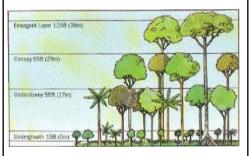
Temperature = line graph.

Rainfall = bar chart

Rainforests

The rainforests have 4 layers. Each has its own characteristics and animals that live there.

Th emergent layer gets the most sunlight. Other plants need to fight to get to the light.



Rainforest adaptations









Plants and animals in the rainforest have special adaptations that help them survive.

Roots to help stabilize tall trees, drip tips to help water run off, beaks for cracking open nuts, claws to grip.

Average rainfall: 50 - 260 inches/year,

often more than 80 inches/year

Temperature Ranges: 68° F (20° C)

93°F (34° C)

Humidity: 77% - 88%
Climate: Hot and humid
Abjotic Factors: Amount of

water/sunlight, climate, weather, rainfall

Biotic Factors: Consumers, producers,

decomposers

Seasons: Very little seasonal variation, except for a brief tropical dry season.

How do people use the Rainforest

Companies – some companies are buying land and building roads/developments

Medicines – Lots of the medicines we use today originally came from the forests.

Logging – Trees are cut down so that the wood can be used for things like furniture.

Cattle ranches – land is cleared to make way for big cattle farms. Rubber tapping – Trees are 'tapped' and the rubber comes out & is collected in pots

Locals - Hunting, farming, housing, traditions.

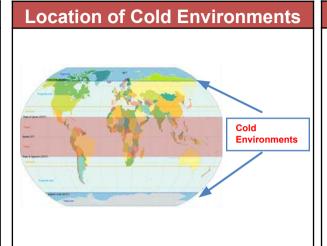
Ecosystems

Rainforest Sustainablilty

Logging and replanting - selective logging of mature trees ensures that the rainforest canopy is preserved.

Education - It is important that local people, businesses and politicians understand the true value of the tropical rainforest.

Ecotourism - this encourages sustainable tourism that creates jobs for local people whilst ensuring that the money generated is used to protect and conserve the tropical rainforest for future generations to enjoy. International agreements - agreements to protect tropical rainforests have been made between different countries through debt-for-nature swaps.



Cold Environments

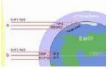
Cold environments include the polar and tundra biomes. They are the coldest environments on Earth. Polar regions are found at the poles. In the north, it is the sea ice that forms the Arctic, and in the south, it is the ice-capped continent of Antarctica.

	Key Terms								
Climate The main weather conditions in a certain area over a long period of time.		Food Chain	A series of organisms each dependent on the next as a source of food.	Landforms	A natural feature of a land surface				
Temperate	Temperate A climate that is mild, like the UK Antarctica		The most southerly continent, surrounded by the Southern Ocean	Mountains	A large natural elevation of the earth's surface rising abruptly from the surrounding level; a large steep hill.				
Exploit	Make full use of and get benefits from.	Adaptation	The changes animals and plants make to allow them to live in an environment.	Avalanche	Rapid movement of snow or ice downhill				
Environment	The surroundings or conditions in which a person, animal, or plant lives or operates		A slowly moving mass or river of ice formed by the accumulation and compaction of snow on mountains or near the poles.	Survival	Continuing to live and exist even in harsh conditions.				

Three reasons why we get cold environments

- HIGH LATITUDE- high latitudes are colder because they receive less solar radiation (the sun's energy that hits the earth) The solar
 radiation hits at more of an angle at the poles, so the sun's warmth is spread out more.
- 2. HIGH ALTITUDE- high altitudes are colder because the air temperature decreases with increasing altitude- Oxygen particles are further apart so there is less friction and warmth created.
- 3. OCEAN CURRENTS- places are cold if they have a cold ocean current running past them- this keeps the land much colder than those countries that have a warmer ocean current like the UK.





History | Year 7 - Norman conquest | September to October

		Battle of Hastings	Battle of Hastings				Vocabulary			
	The Battle of	In September 1066, Harald Hardrada landed an army of	4	After a break for lunch new strategy . He attac	ked with his	1	Archers	Soldiers who fire arrows at the enemy from range.		
	Stamford Bridge	8,000 Vikings in the North of England. Harold Godwinson and		cavalry who then feign Some English soldiers f	ollowed the	2	Anglo-Saxons	A people from Germany who settled in England.		
	bildge	his army marched 180 miles in 4 days to meet them.	5	cavalry, breaking the s With the shield wall br	oken, the	3	Barons	Wealthy landowners who control an army.		
		Godwinson defeated the		Norman cavalry could of fyrd .	_	4	Cannibalism	Eating humans.		
		Vikings at the Battle of Stamford Bridge. Hardrada was	6	Harold was shot in the Without their leader, t		5	Cavalry	Soldiers who ride on horseback.		
		killed. Almost as soon as the battle was over, Harold learnt	7	was easily defeated. William marched to Lo crowned king on Christ	ed to London and was		Claim to the throne	A reason why someone should be King.		
		that William had landed and he raced his exhausted army back		Contenders for the throne		7	Contenders	Challengers.		
		to the south coast. 5,500 fyrd , untrained farmers	Name	Strengths	Weaknesses	8	Deter	Use a harsh penalty to stop someone doing something.		
	Anglo- Saxon	fighting with wooden shields and farm tools 3,000 heavily-armoured housecarls armed with battle	Harold Godwinson	A nobleman with the support of English earls	 Harold had rebelled against Edward No proof 	9	Earls	Anglo-Saxon noblemen.		
	Army			 Edward had apparently promised him the throne as he lay dying 		10	Edwin	Anglo-Saxon earl of Mercia.		
3	William's Norman	axes. 3,000 well trained infantry with metal armour and swords		 Had been crowned king already after Edward had 	that he had promised the throne	11	Feudal System	William's system of giving out land.		
	Army	2,000 cavalry on large warhorses		died		12	Feigned	Pretended.		
		800 archers who could fire over 100 metres	Harald Hardrada	Had been King of Norway for 20 years	 Very weak claim to the 	13	Harrying	Destroying.		
	Battle of	Harold took a strong position at the top of Senlac hill. Fyrd and				 A feared warrior who had won battles across Europe Claimed that Emma's son 	throneDidn't speakEnglish	14	Heir	Someone to become king or queen after you, usually a son.
	Hastings	housecarls linked shields to form a shield wall.		Harthacnut had promised his family the English throne		15	Hierarchy	A system with the most important people at the top.		
	2	William placed his army in three rows: archers in front, followed	William,	Related to Edward through	No proof		Infantos	Soldiers who fight on foot.		
		by infantry , and cavalry protected behind	Duke of Normandy	Emma, his great-auntEdward had apparently	that he was promised	16	Infantry			
3	3	William ordered attacks from his archers and cavalry, but		promised him the throne in 1051 and Harold had agreed • Successful leader in battle and had been Duke of Normandy for 30 years	the throneDidn't speak	17	Knights	Loyal soldiers who fight for barons and the king.		
		they failed because of the hill and shield wall.			English	18	Matilda of Flanders	William's wife.		
				. ,						

History | Year 7 – The Middle Ages | Nov - Dec

		The Church			<u>Monasteries</u>		Vocabulary			
1	Heaven and	Medieval Christians tried to live	1	What happened	Prayer and worship took place in	1	agriculture	farming		
1	Hell	good lives to make sure they went to heaven.		in the monastery?	The poor and sick were cared for in the infirmary .		•	2	the Church	The international organisation that ran the Christian religion
2	Doom	churches showed Medieval		People came on pilgrimages to worship at the shrine of Saint Mary.	3	gender	the characteristics of men and women			
2	2 Doom paintings	Christians what was going to happened to them after they died.	2	Who was involved in the	The abbott was the monk in charge of the monastery .	4	harvest	the period of gathering in the crops from the field		
		People who had committed spent eternity suffering in hell. Good Christians rose to heaven to be		life of the monastery?	Monks lived and worked in the monastery, praying 5 times a day, growing food and helping the poor	5	hierarchy	a system in which people are ranked by their power or status		
2	D	with God.			Local masons (builders) were employed to build new buildings		monastery	a large religious building where monks lived and prayed		
3	Deserved to go to heaven by:	doing good works such as helping the poor and sick buying an indulgence , a certificate			Nobles donated money to the monastery so monks would pray for	7	noble	a wealthy landowner who inherited wealth and power from his family		
	Í	that forgave your sins going on pilgrimage , a long journey			them to go to heaven The poor received charity from the monks		original sin	Eve eating the forbidden fruit in the Garden of Eden		
		to a religious shrine.					patriarchal	ruled and dominated by men		
4	The Church hierarchy	The Pope the head of the Christian Church	1	men were	Gender God expelled humans from the Garden of		peasant	a poor farmer who rented land from others		
		lived in Rome in Italy claimed power over all Christians	1	superior to E	iden because Eve was tempted to eat the orbidden fruit – this is known as the original in Medieval Christians believed that this proved women were weaker than men and hould take the blame for all of society's problems	11	the Pope	the head of the Church		
		and could excommunicate kings. The Archbishop of Canterbury was the most important priest in England was responsible for churches across the whole country.		si N p si		12	saint	an especially holy person who could perform miracles		
						13	to excommunicate	to kick someone out of the Church (only the Pope had the power to do this)		
		Bishops were the leaders of the Church in a region of England. Priests	2	а	easant men were responsible for growing nd harvesting food to feed the family.	14	monarchy	a system of government in which kings and queens inherited their power		
		ran church services in a local area, called a parish .		b	the king needed men to fight, men had to e ready to serve in his army Men filled all of the roles in the Church.	15	rebellion	when ordinary people rise up against the government		
5	Saints	One of the most popular saints was Saint Cuthbert who performed miracles such as calming a storm Medieval Christians worshipped saints by making a pilgrimage to a shrine (a statue of a saint or their	2		oyal women such as Emma of	16	legitimate	proper, correct – i.e. descended from the previous king		
			3	N	ormandy or Matilda were very powerful. Ilarried women helped their husbands by lanaging the household or helping in the lelds at harvest time.	17	heir	the person next in line to be king or queen.		
				fi		18	interpretation	a historians' answer to a question about the past		
		remains).		р	hildbirth was incredibly dangerous: two ercent of pregnancies led to the death of ne mother.	19	taxes	money paid to the government		

Year 7 Mathematics | **Term 1** | **Knowledge Organiser**

-1

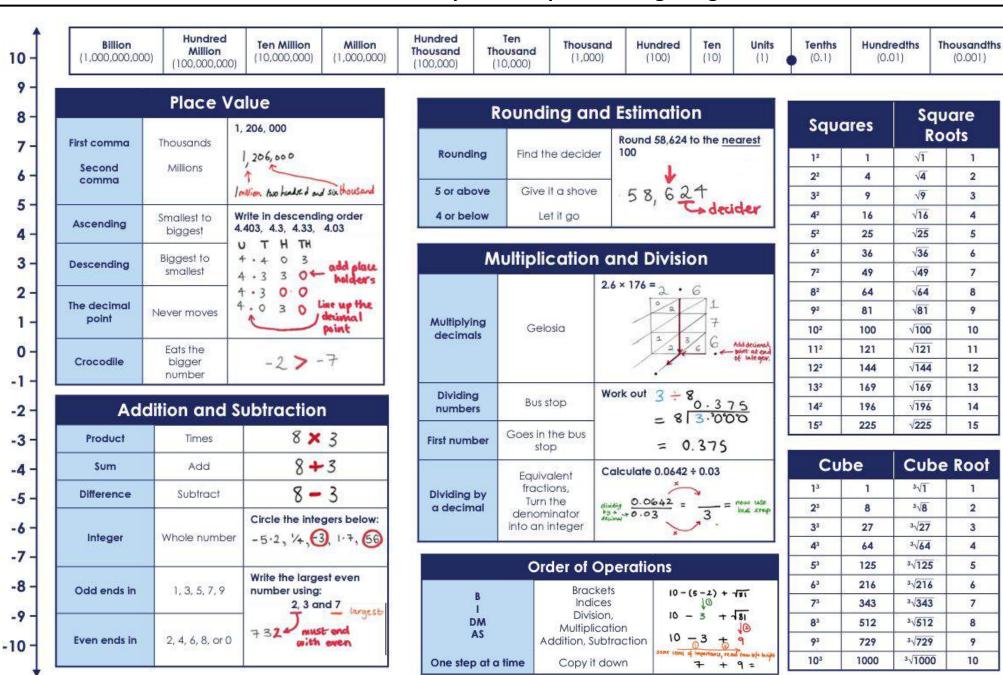
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Year 7 Mathematics | Term 1 | Knowledge Organiser



Expressions and Substitution				
Substitution	Replace with brackets	a = 5 and b = -2. Calculate 6a – 3b 6(5) – 3(-2) = 30 +6 = 36		

	Notati	on
Expression	No equals sign	2x -12 + 3x
Equation	Has an equals sign	2x - 12 + 3x = 20
Identity	True with any value for x	5(x-3) = 5x -15
Formula	Equals with more than one unknown	Area of a = (a+b)h Trapezium 2

	Solving Linear Equations						
Successful elimination	With an inverse operation	Solve 10x = 5 10					
If you do it on 1 side	Do it to the other to keep the balance	2x +2x = 5 2x + 2 x = 1					
x on both sides	Get rid of the smallest 'x'	Solve $11(3x) = 2x + 1$ $+3x + 3x$					
x on both sides and brackets	Expand the bracket first	501ve 3(x+4) = 5(2x-1) 3x+12 = 10x-5					

	Ullis	of Measurement	
Converting units	Box method Bigger unit equals '1'	Convert 0.03m into cm Converting to the string about 1 1000 Converting about 1 1000 Answer: 3cm	1cm = 10mm 1m = 100cm 1km = 1000m 1kg = 1000g 1l = 1000ml 1 min = 60 seconds 1 hour = 60 mins
Converting units of area	Draw a rectangle Convert the lengths	Convert 12 mm² to cm² choose lengths that that that that the street area of 12 mm = 0.3 convert the lengths to cm	1

Music: Theory: Rhythm and Notation |

Year	7

| Summer

	Eleme	ents of Music
1	Pitch	Music is high or low in sound
2	Dynamics	Where the music is loud and Quiet
3	Duration	How long or short the values of the note
4	Tempo	How fast or slow the music is being played.
5	Timbre	The different sounds of the instruments: Wood, metal, string & skin.
6	Texture	How many instruments are playing at one time, lots or nots many: Thick or Thin
7	Silence	Allow sounds to die away and give effect to the music
8	Structure	The order of the music Verse, chorus, Bridge and Instrumental
		and morral

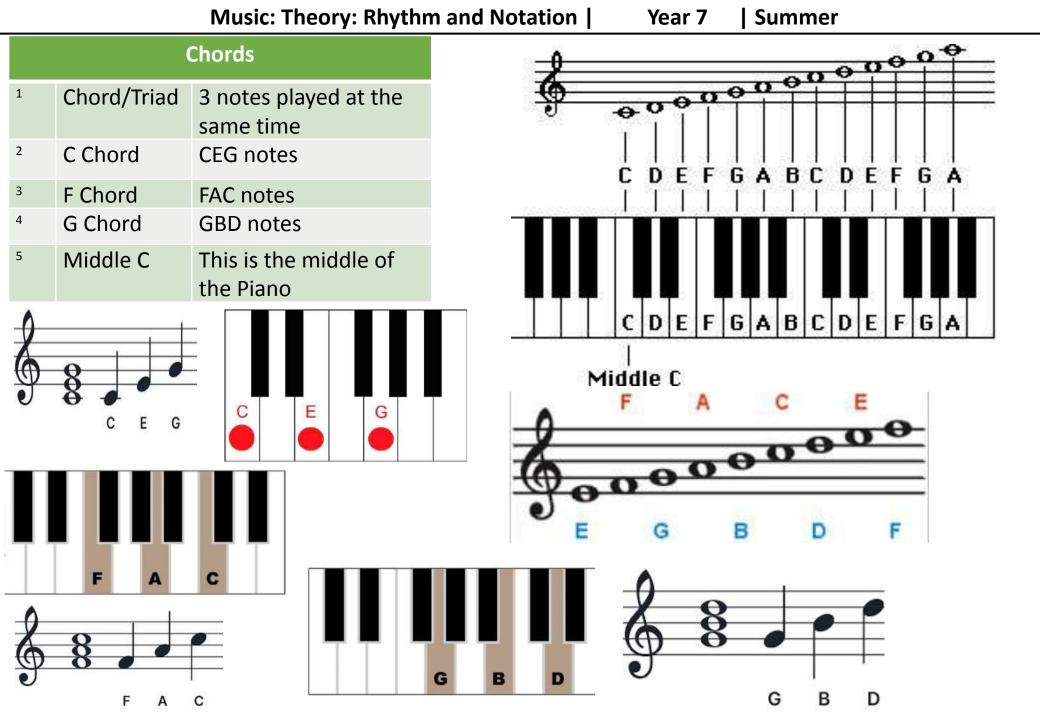
	ı		ı	ı		ı	
С	0	ш	E.	G		В	6
				1	1		
			9	0		0	
C	D	E	F	G	A	В	C

Keyboard layout

	Theory						
1	Time signature 4 or 3	This tells us how many beats in a bar, that you need to count. The top number tells how many beats; Eg. 4 or 3					
2	: 	This is a repeat mark. It means you go bar to the beginning and play the music again.					
3	Rhythm	Is a pattern of sound which can be repeated to a regular beat.					
4	Rests	A rest is a musical sign that indicates a beat of silence. It still counts in the value of the bar.					
5	Pulse	A pulse is a steady, regular beat that continues throughout a song.					

Music is	writte	n on fi	ve lin	es cal	led s	taves	
Treble Cl	of (fall	nd at t	ho cti	art of	tho m	usic)	
7							· !
1111	le Signi	ature (1	rells	ou noi Bar	v man	y beats	in a ba
11		-	+				7
1 1	9	9	•	,,	,	0	
<u>1940</u>							
040	1					/	

	Rhy	thm not	e Values
1	0	4 beats	Semibreve
2	d.	3 beats	Dotted Minim
3		2 beats	Minim
4	ا	1 beat	Crotchet
5)	½ beat	Quaver
6	Л	1 beat	2 Quavers
7	A	1/4 beat	Semiquaver
8	,,,,	1 beat	4 Semiquavers
9	3	1 beat	1 beat crotchet rest
10	-	2 beats	2 beat minim rest



Science | Year 7 | Working Scientifically Variable that causes another variable to change What is the definition of accurate?

What is the definition of random error?

Variable that changes because of a change to

How close the measurement is to the actual value.

What is an independent variable?

What is a dependent variable?

	another variable (effect)	What is the definition of random error?	Difference between measurement and actual value that can't be predicted
What is a control variable?	Variable that we must keep the same during our experiment	What do we call a result that does not fit the pattern or trend?	Anomalous result / outlier
What goes in the left hand column of a results table?	Independent variable	What is the definition of resolution?	The smallest measurement that can be made with a measuring device.
What goes in the right hand column of a results table?	Dependent variable	What is the definition of range?	Difference between the largest value and the smallest value.
What is a hazard?	An object/substance that could cause harm to someone.	What is the resolution of an ordinary 15 or 30 cm ruler?	1mm
What is a risk?	The harm that could be caused to someone by a hazard.	What is the definition of a systematic error?	Difference between measurement and actual value that is same each time.
What is a control measure?	Actions we can take to reduce the risk of harm.		
Where do we write the units in a results table?	Column headings	What is a zero error?	An error caused by the reading not being zero when no measurement is being made.
What is an anomalous result?	A result that does not fit the pattern / trend.	How we can we avoid including zero errors in our measurements?	Set the measuring instrument to zero before measuring, or subtract the initial reading from the final reading to
What is the definition of categorical data?	Data that can only have certain values.		calculate an accurate reading.
What is the definition of continuous data?	Data that can have any value on a scale.	What is the definition of precise?	Repeated measurements are close together (small random errors)
What type of graph should we draw for continuous data?	Scatter / line	Why does doing repeats and taking a mean improve the accuracy of a	Reduces the effect of random error
What type of graph should we draw for	Bar / pie	measurement?	
categorical data?		What is the definition of reliable?	Anyone could get the same experimental result again
Which variable usually goes on the horizontal axis of a scatter graph?	Independent	What is the definition of repeatable?	If same person did same experiment again, they would get the same results
Which variable usually goes on the vertical axis of a scatter graph?	Dependent	Which of the following gives the best definition of reproducible?	If someone else did the same experiment, they would get same results

Science | Year 7 | Working Scientifically

How would we measure the volume of a cube?

True or false: a blue flame is hotter than an

Measure length, width and height using a ruler.

True: a blue flame is hotter.

Hasn't kept control variables

Ruler [or tape measure]

Meniscus

Metres, centimetres, millimetres

centimetres cubed, milliletres, litres

Why might a scientist's conclusion not be valid?

Which piece of equipment is used for measuring length?

What do we call the curved section of liquid within a

What units do we use to measure length?

What units do we use to measure volume?

measuring cylinder?

	constant; confused correlation with causation; other factors involved.		Multiply these together to calculate volume.
What is the definition of resolution?	The smallest measurement that can be made with a measuring device.	How would we measure the volume of an irregular solid like a stone?	Displacement method: place stone into water and measure the change in volume.
Which piece of equipment is used to hold small volumes of liquid?	Test tube	Which piece of equipment is used to measure mass?	Balance
Which piece of equipment is shaped like a test tube but can used to hold larger volumes of liquid?	Boiling tube	What units do we use to measure mass?	kilograms, grams
Which piece of equipment is used for storing and pouring liquids?	Beaker	How would we measure the mass of a liquid?	Measure the mass of the container. Add the liquid and measure the mass of both. Subtract to
Which piece of equipment is used for storing and swirling liquids?	Conical flask	What button should we press before taking any	calculate the mass of the liquid. Zero / tare button.
Which piece of equipment is used for accurately measuring volumes of liquid?	Measuring cylinder	mass reading using a balance?	
Which piece of equipment is used for pouring liquids without spilling them?	Funnel	Which piece of equipment is used to measure temperature?	Thermometer
Which piece of equipment is used for measuring small volumes of liquids?	Pipette	How should we position our body when measuring temperature?	Make sure we are at eye level with the thermometer.
Which piece of equipment is used for picking up small masses of solids?	Spatula	Which piece of equipment is used to heat substances strongly in the lab?	Bunsen burner
Which piece of equipment is used for holding things in place above a desk?	Clamp + clamp stand	Which part of a Bunsen burner is used to control the strength of the flame?	Air hole

orange flame.

Science Yea	r 7 Particles	What is the definition of boiling point in terms of temperature?	Boiling point is the temperature at which all of the particles in a	
What word describes the stuff that makes up everything	Matter		substance change from liquid to gas.	
n the world?		True or false: melting point occurs at the same temperature	True: melting point occurs at the	
What is the principle of conservation of energy?	Total energy before an event = total	as freezing point.	same temperature as freezing point.	
	energy after an event [OR energy is never created or destroyed, it is only	What is the most commonly used temperature scale in Europe?	Celsius	
	stored, transferred usefully or dissipated.]	<u>'</u>	Fahrenheit	
	Solid, liquid, gas	What is the most commonly used temperature scale in America?	ramemen	
n which state do particles have the most kinetic energy?	Gas	If two objects have the same volume but different masses,	The one with the larger mass.	
n which two states are particles close together?	Solid, liquid	which is more dense: the one with the larger mass or the one with the smaller mass?		
How do we describe the arrangement of particles in a solid?	Fixed lattice	If two objects have the same mass but different volumes, which is more dense: the one with the greater volume or the	The one with the smaller volume.	
How do we describe the motion of particles in liquids and	Random	one with the smaller volume?		
gases?		What causes gases to exert a pressure on the walls of the	Collisions between the particles and	
How do we describe the motion of particles in a solid?	They do not move; they only vibrate	gas's container?	the walls of the container.	
True or false: particles in a liquid / gas all have the same	False: particles in a liquid / gas move at a	If more particles are added to a container of gas, does	Pressure increases	
kinetic energy.	range of speeds.	pressure increase or decrease?		
What word do we use to describe liquids and gases?	Fluids	If the gas in a container is heated, does pressure increase or decrease?	Pressure increases	
n which state are the bonds / forces between particles the strongest?	Solid	If the container is allowed to expand (become larger), does pressure increase or decrease?	Pressure decreases	
What is the change of state from solid to liquid called?	Melting	True or false: particles low down in the earth's atmosphere	False: particles low down are more	
What is the change of state from liquid to gas called?	Evaporating / boiling	are less densely packed than particles high up.	densely packed.	
What is the change of state from liquid to solid called?	Freezing	Is air pressure greater low down or high up in the earth's	Air pressure is greater low down.	
What is the change of state from gas to liquid called?	Condensing	atmosphere?	Harry manny monthless are sometimes of	
What is the definition of melting point in terms of	Melting point is the temperature at which	What does concentration mean in terms of particles?	How many particles are contained within a certain volume / space.	
	all of the particles in a substance change from solid to liquid.	What do we call the movement of particles from a high to a low concentration?	Diffusion	

Hola, señor Hello, sir Hola, señora Hello, madame ¡Buenos días! Good morning ¡Buenas tardes! Good afternoon	¿Qué tal? how are you? ¿Cómo estás? how are you? ¿Qué pasa? what's going		sí, yes, no,	muy bien, gracias very well, thank you más o menos okay / so-so todo va bien, gracias all is going well, thanks no tan bien		adiós goodbye hasta pronto see you soon hasta mañana see you tomorrow hasta luego see you later		
¡Buenas noches! Good night	on? (what'	's up?)	no,			uch	que tengas un buen día have a good day	
Span caste Casti arger Arge chile Chile color Color	I my k s(a) sh ish illano/a lian Spa ntino/a ntinian no/a an mbiano/ mbian ano/a	birthday is Lond Mad Barco Buer Santi Med Lima	tengo I have (I am) the res rid elona ios Aire iago ellín	?	primero (1st) un(o) (1) dos (2) tres (3) cuatro (4) cinco (5) seis (6) siete (7) ocho (8) nueve (9) diez (10) once (11) doce (12) trece (13) catorce (14) quince (15) dieciséis (16) diecisiete(17) dieciocho (18) diecinueve (19)	veinte (20) veintiuno (21) veintidós (22) veintitrés (23) veinticuatro (24) veinticinco (25) veintiséis (26) veintisiete (27) veintiocho (28) veintinueve (29)		enero January febrero February marzo March abril April mayo May junio June julio July agosto August septiembre September octubre October noviembre November diciembre December

		1					
En mi familia	hay	yo	También	un animal		negro <i>black</i>	
In my family	there is	me	Also	an animal		rojo <i>red</i>	
				un gato		amarillo yellow	
En mi casa		mi padre <i>my father</i>	tengo	a cat		blanco white	
In my house		mi papá <i>my dad</i>	I have	un perro		rosa <i>pink</i>	
•		mi padrastro		a dog		naranja <i>orange</i>	
En casa		my step dad	(nosotros)	un caballo		azul <i>blue</i>	
At home		mi hermano my	tenemos	a horse		verde <i>green</i>	
		brother	we have	un conejo		gris <i>grey</i>	
		mi abuelo my		a rabbit		marrón <i>brown</i>	
		grandad	me gustaría	un pez <i>a fish</i>			
		mi primo <i>my cousin</i>	tener	un pájaro		negra <i>black</i>	
		(m)	I would like to	a bird		roja <i>red</i>	
		mi tío <i>my uncle</i>	have	a sin a		amarilla <i>yellow</i>	
		mi hijo <i>my son</i>	nave	una tortuga		blanca white	
		mi marido <i>my</i>		a tortoise		rosa <i>pink</i>	
		husband		una araña		•	
		naspuna				naranja <i>orange</i> azul <i>blue</i>	
				a spider una serpiente	. ~	verde <i>green</i>	
				snake	e u		
		mi madre <i>my mother</i>		snake		gris <i>grey</i>	
		mi mamá <i>my mum</i>			i	marrón <i>brown</i>	
(yo) diría que		mi madrastra <i>my step</i>	porque <i>because</i>	muy			
I would say that		mum		very	cont	ento/a(s) happy	
		mi hermana <i>my sister</i>	dado que		dive	rtido/a(s) <i>fun</i>	
En mi opinión		mi abuela my	because	bastante	simp	simpático/a(s) kind	
In my opinion		grandmother		quite	boni	bonito/a(s) beautiful	
		mi prima my cousin (f)	soy		activo/a(s) active		
me gusta		mi tía <i>my aunt</i>	I am	un poco	únic	o/a(s) unique	
I like		mi hija <i>my daughter</i>		a bit	mon	otono/a(s) boring	
		mi mujer <i>my wife</i>	(él) es			dado/a(s) <i>angry</i>	
me encanta			he is	realmente	eilia	luado/a(s) ungry	
I love				really			
		mis padres	(ella) es		_	re(s) <i>happy</i>	
(yo) prefiero a		my parents	she is	verdaderam		te(s) <i>strong</i>	
I prefer		mis abuelos		ente		e(s) <i>sad</i>	
, ,,		my grandparents	(nosotros) somos	truly	-	onsable(s) responsible	
no me gusta			we are		socia	able(s) <i>social</i>	
I don't like		mis dos hermanos					
		my two brothers	(ellos) son				
(yo) odio a		mis tres hermanas	they are		feliz	/felices <i>happy</i>	
I hate		my three sisters	and the				
rate			(ellas) son			vidual(es) <i>individual</i>	
no soporto a			they are (all		trab	ajador(a)(es/as)	
I can't bear			female)		hara	lworking	
r cuir t bear			jemulej				
no oguanto o							
no aguanto a							
I can't stand							

Durante mi tiempo libre During my free time	juego <i>I play</i>	al fútbol football al baloncesto basketball al vóleibol volleyball al tenis tennis al tenis de mesa table tennis al hockey sobre hielo ice hockey a las cartas cards	
En mis ratos libres In my free time Normalmente Normally Generalmente Usually A veces Sometimes De vez en cuando From time to time A menudo Often	hago I do	deporte sport ciclismo cycling natación swimming baile dancing ejercicio exercise al centro (de la ciudad) to the (city) centre al centro comercial to the shopping centre al parque to the park a la costa to the coast al campo to the countryside a la montaña to the mountains a la piscina to the swimming pool a la casa de mi amigo to my friend's house a un club de fútbol to a football club	con mi padre with my dad con mi hermano with my brother con mi hermana with my sister con mi madre with my mum con mis amigos with my friends solo / sola alone

TEXTILES TEA PARTY | YEAR 7 | TEXTILES | AUTUMN TERM

KEY TERMS			TEXTILES EQUIPMENT			
Pattern	A pattern is a design in which lines, shapes, forms or colours are repeated. The part that is repeated is called a motif. Patterns can be regular or irregular.	Sewing Needle	A long slender tool with a pointed tip at one end and a hole (or <i>eye</i>) to hold the sewing thread.			
Shape	Shapes are two-dimensional. Positive shapes represent solid objects and negative shapes show the surrounding space. Geometric shapes are perfect and regular.	Pins	A device, with a head, shaft and point, used for fastening objects or fabrics together.			
	Organic shapes are irregular and natural. Texture means how something feels.	Fabric Scissors	Scissors (blue and black handle in textiles) used to cut thread, fabric and other types of cloth.			
Texture	There are two types of texture: actual texture and visual texture.	Paper Scissors	Scissors (red, green/yellow handle in textiles) used to cut card, paper, plastic and anything that ISN'T fabric.			
Colour	A reaction to light bouncing and reflecting differently off an object into the eye.		A handheld electrical tool with a heated flat steel base,			
Form	Form refers to three dimensional objects. While shapes have two dimensions (height and width), forms have three dimensions (height, width and depth).	Iron	used to smooth out creases and remove wrinkles from fabric.			
Hand Embroidery	The art of decorative stitching on fabric with needle and thread by hand.	Marker Pens	A pen which has its own ink source and a tip made of porous, pressed fibres such as felt.			
Line	A mark made on a surface that joins different points. Lines can vary in length, width, direction and shape.	Colouring Pencils	An art tool constructed of a narrow, pigmented core encased in a wooden cylindrical case.			
Tone	Tone means how light or dark something is. The tones artists and designers use and the contrast between them can create very different moods and visual effects.	Ironing Board	A stable and solid fabric covered and heat-resistant surface to iron fabric on.			
Space	Space refers to objects and to the area around them. Space relates to volume, so a space has width, depth and height.	Greaseproof Paper	A non-stick paper that is used in textiles to reduce damage, staining and destruction to work when ironing.			
Sewing Needle	Equipment	Sewing Machine	A machine used to sew fabric and materials together with thread.			
Sewing 1.0	Embroidery Thread Fabric Scissors	Machine Thread	Thread that is thin and fine and designed to be used to be used on a sewing machine.			
or state of the st	Pims	Embroidery Thread	A yarn that is manufactured or hand-spun specifically for embroidery and other forms of needlework. Thicker than machine thread and able to be split.			
6/		Fabric Paint	Paint that is designed to be used on fabric. Can be applied by brush, sponge or thinned to a spray.			
90	Watercolour Paint	Fabric Crayons	A wax like crayon that is designed to be used on fabric. Gives a smooth, matte finish with no lumps on fabric – unlike traditional wax crayons. Can be heat fixed with an iron.			
		Fabric	Any thin, flexible material made from yarn, directly from fibres, plastic film or foam.			
Machine	e Thread Sewing Machine	Cloth	A kind of fabric that consists of a fine, flexible network of yarns.			