

YEAR 8 - DEVELOPING GEOMETRY... @whisto_maths Orea of trapezia and Circles



= (300 + 64 π) m

0R = 501.1 m

It is important to round your answer suitably — to significant figures or decimal places. This will give you a decimal solution that will go on forever!

Still remember to split up the compound shape into smaller more manageable individual shapes first

YEAR 8 - DEVELOPING GEOMETRY. Line symmetry and reflection @whisto maths

What do I need to be able

Recognise line summetry

Reflect in a vertical line

Reflect in a diagonal line

Reflect in a horizontal line

By the end of this unit you should be able to:

to do?

Keywords

Mirror line: a line that passes through the center of a shape with a mirror image on either side of the line. Line of summetry: same definition as the mirror line

- Reflect: mapping of one object from one position to another of equal distance from a given line. Vertex: a point where two or more-line segments meet.
- Perpendicular: lines that cross at 90°
- Horizontal: a straight line from left to right (parallel to the x axis)
- Vertical: a straight line from top to bottom (parallel to the y axis)



YEAR & - REASONING WITH DATA The data handling cycle @whisto maths



Year 8 GCSE Science Term Knowledge Organiser - Light

Key	Vocabulary:		18	Understanding Light	20	Refraction
1 2 3 4 5 6 7	Angle of incidence Angle of reflection Boundary Concave lens Convex lens Cornea Dispersion	The angle between the incident (incoming) ray and the normal. The angle between the reflected (outgoing) ray and the normal. The edge of a material or medium. A lens that spreads out rays of light. A lens that brings rays of light to a focal point. The transparent layer at the front of the eye. The splitting of white light into the colour spectrum.	 1. 2. 3. 4. 5. 6. 7. 	Light travels at 300 million metres per second (m/s). Light travels faster than sound. Light always travels in straight lines from a luminous object. Shadows form when light is blocked by an opaque object. Ray diagrams can show how light reflects off mirrors, forms images, and refracts. Ray diagrams are always drawn with a ruler and pencil. Angles are measured from the normal line with a protractor.	1. 2. 3. 4. 5.	Refraction is the change in the direction of light going from one material (medium) into another. This change in direction is because light changes speed when it moves from one medium to another. When light enters a more dense medium it bends towards the normal. When light enters a less dense medium it bends away from the normal. Refraction in water makes objects look as though they are nearer the surface than they actually are.
8 9 10	Emit Law of reflection Lens	Produce or give out. The angle of incidence is equal to the angle of reflection. A piece of dense transparent	8. 9.	 The normal line is the dotted line from which angles are measured, at right angles (90°) to the surface. Arrows are used to show the direction the 	21 1. 2. 3.	Lenses Lenses refract light. Convex lenses are thicker in the middle and refract light to a focal
11 12	Luminous Medium	material that causes light to refract. Something that gives off light. The substance through which a wave travels.	10. 11.	light is travelling in. Transparent: A material that allows most light to pass through it. Translucent: A material that allows some light to pass through it.		help to focus light onto the retina. Concave lenses are thinner in the middle and scatter the light (there is no focal point).
13	Non- luminous	Something that does not give off light.	12.	Opaque: A material that allows no light to pass through it.	22	
14	Normai	right angles) to the surface of a medium, from where angles are measured.	19 1.	Reflection Reflection occurs when light hits a smooth surface (e.g. a mirror)	1.	Prisms cause light to be dispersed, this is when white light to split into seven component colours called a spectrum. Spectrum: A band of colours produced by separation of the
15	Pupil	The round opening in the centre of the eye through which light passes.	2.	The light hits the surface and is reflected into the eye.	3.	components of light because they are each refracted differently. The order of the colours is always the same ROYGBIV: red, orange,
16	Reflection	When light bounces back to the medium it came from when it hits a boundary between materials.	3.	The angle of incidence is equal to the angle of reflection – this is the law of reflection.	4. 5.	yellow, green, blue, indigo, violet. Red light is refracted the least and violet is refracted the most. Red, green and blue are called the primary colours of light.
17	Refraction	The change in speed of light as it moves from one medium to another, causing it to change direction.		i= angle of incidence r= angle of reflection Mirror	6. 7. 8.	Yellow, magenta and cyan are the secondary colours of light, made from combinations of the primary colours. White light is produced from the combination of all the colours. Objects appear the colour that they reflect, e.g. a red apple appear and because it reflects and light and show a show a show a
18	Retina	The layer at the back of the eye that is sensitive to light and passes signals to the brain via the optic nerve.		Reflected r i Incident ray	9. 10.	White objects appear white because they reflect all colours Black objects appear black because they absorb all colours
19	Spectrum	The colours that make up white light.		i		

Year 8 Science Summer Term Knowledge Organiser – Nutrition

Key Vocabulary		11 The contents of a healthy human diet include carbohydrates, lipids (fats and oils), protein, vitamins, minerals, dietary fibre and water		16	The oesophagus moves food into the stomach	
1	Acidic	Having a pH lower than 7. The stomach is acidic.	12	A balanced diet includes all the nutrients our body needs in the right quantities	17 18	In the stomach, mechanical and chemical digestion occur The stomach contains acid
2	Alkaline	Having a pH greater than 7. Bile is alkaline	13	Calcium is an example of a mineral used in making bones and teeth	19	Water is absorbed into the bloodstream from the large intestine
		bie is dikume.	14	Carbohydrates are important to provide		
3	Amylase	An enzyme that speeds up the breakdown of starch into	energy. Carbohydrates are found in foods such as bread, potatoes, rice and pasta			Food test
4	Diffusion	The net movement of particles		Lipids (fats) are important for providing energy and insulation. Lipids are found in foods such		lodine solution changes colour from brown to black in the presence of starch
		concentration to an area of low concentration.	as nuts, dairy products, meat, oils and sweets Proteins are important for growth and repair of cells and tissues. Proteins are found in foods such as eggs, pulses, fish, meat, nuts and dairy		22	Benedict's reagent changes colour from blue to orange/red when heated in the presence of
5	Enzyme	Substances that speed up chemical reactions in the body.			23	simple sugars such as glucose Biuret reagent changes colour from blue to
6	Linid	A nutrient found in butter, oils		products		purple in the presence of protein
	стрій	and other fatty foods, that provides energy and insulation.				
7	Muscle	A type of tissue that can contract and relax.		tongue salivary glands	20	A Constanting of the second seco
	Tissue			stomach	,	
8	Organ	A group of tissues working together in an organism which performs a specific function.	liver stoffaction gallbladder duodenum pancreas small intestine appendix rectum			
9	Pancreas	An organ which produces enzymes.			9	
1 0	Protein	A nutrient found in fish, meat, eggs, nuts and pulses that is		anus		

Year 7 – Poetry – HT5 Knowledge Organiser

Poetry	Literary work that expresses feelings and ideas using rhythm and style.		
Analysis	Detailed examination of the language elements or structure of a piece of writing.		
Comprehension	The understanding when reading a piece of text.		
Structure	The structure of a poem is the way it is put together. It refers to the structural techniques and how it looks on the page.		
Message	The message of a poem is what the writer intended to say – often poetry will have different layers of meaning.		
Imagery	The imagery of a poem refers to the mental images that are created through language use.		
Language	The language of a poem refers to word choices. Poets often try to use particularly descriptive vocabulary.		
Effect	The effect of a poem refers to the way the writer wants readers to feel after reading.		
Stanza	A group of lines in poetry, like a paragraph in writing, or a verse in a song.		
Free Verse	Free verse is any poem that does not follow a particular rhyme scheme or rhythm.		
First Person Narrative	When a story or poem is written from the perspective of the protagonist using first person pronouns.		
Cyclical Structure	When a story begins at the end or ends at the beginning.		
Consonance	When the same or similar constant sound occurs in words close to each other in a text.		
Abstract	Something that usually only exists through a thought or an idea.		
Caesura	A pause in a line of poetry marked by a full stop/end of a sentence.		
Dashes	Punctuation that creates particular emphasis.		
Refrain	A repeated line through a piece of poetry.		
Connotations	The associations a particular word or phrase has.		
Rhyme	Words with a similar/identical vowel or consonant sound.		

Year 8: Causes of the First World War

On 28 June 1914, Archduke Franz Ferdinand, and his wife were assassinated This was just one of the many causes leading to the start of the First World War.

Triple Entente

GB, France, Russia, Serbia

Central Powers

Germany, Austro Hungary



ALLIANCES	An agreement between countries that benefits each of them.
ASSASSINATION	The planned murder of an important person.
BALKANS	A region in south eastern Europe.
EMPIRE	A group of countries ruled by a single country.
HEIR	someone who has the right to inherit a person's money, property, or title when that person dies
IMPERIALISM	Imperialism is a way of governing in which large or powerful countries seek to extend their power beyond their own borders.
KAISER	German word meaning King.
MILITARISM	The belief that it is necessary to have strong armed forces.
NAVY	The part of a country's armed forces that is trained to operate at sea.
NATIONALISM	A pride in your own country and a belief that it must be strong.
RIVALRIES	A situation in which countries compete against each other for the same thing.

<u>Key People</u>	
Alfred von Schlieffen	Schlieffen developed a plan in 1897 in which Germany would attack and defeat France quickly, and then fight Russia.
Kaiser Wilhelm I	King of Germany
The Black Hand	A secret society of Serbs dedicated to unite all Serbs in the Balkans.
Archduke Franz Ferdinand	Heir to the Austro-Hungarian Empire, assassinated by Gavrilo Princip in 1914.
King George V	King of England
Tsar Nicholas I	Emperor of Russia

TIMELINE OF THE EVENTS LEADING TO WORLD WAR ONE

Triple Alliance Signed. 1882.

France and Britain signed the Entente Cordiale 1904. Archduke Franz Ferdinand, assassinated. 28 June 1914,

Austro-Hungary declares war on Serbia. 28th July 1914

Germany declares war on Russia 1st August 1914

7.5 Russia Knowledge Organiser

Keywords

Biome - a global ecosystem.

Choropleth - colour map to show different values.

Climate - average temperature and precipitation over time.

Densely populated - many people in an area.

Nuclear energy - energy created by atoms.

Permafrost - permanently frozen ground.

Rural-urban migration -movement of people from rural to urban areas.

Sparsely populated – few people in an area.

Taiga - forest in high latitudes.

Risk

Tundra - flat, treeless region in high latitudes.



MFL Knowledge Organiser Summer 1 Yr 8 La Ropa

		<u>Tense</u>	<u>S</u>	
				Son= they are
PRESENT	-ar verbs	-er verbs	-ir verbs	Es - is
l I	-0	-0	-0	Tiene - has
you	-as	-es	-es	
he/she/it	-a	-е	-е	
we	-amos	-emos	-imos	
you (pl)	-áis	-éis	-ís	
they	-an	-en	-en	

FUTURE Saying v	what you are goin	i <u>g to do</u>
Voy		INFINITIVE
vas		Ir
va		Tocar
vamos	a	jugar
	a	nadar
vais		llevar
van		leer
		Ver

	U		
Opinions C Odio	Adjectives		
Detesto	De moda	fashionable	
Prefiero	Antecuado(a)	Old fashioned	
Pronouns 😂 😂 D	Largo(a) / corto(a)	Long/ short	
	elegante	smart	
Me chifla(n) Me = me Me irrita(n) Le = him/her Ma churra(n)	De colorines	coloured	
Me flipa(n) Nos = us Me aburre(n)	Estampado(a)	patterned	
Connectives 👝 🕞	De rayas	striped	
	Cómodo / incómodo	(un)comfortable	
Pero / sin embargo but / however	Feo/a	Ugly	
Porque / dado que because/ given that Aunque although	Un vestido negro Una fald <mark>a</mark> negr <mark>a</mark>		
Complexity F			
Tengo que + infinitive = i nave got to Tengo que llevar = i have to wear Más que = more than	Muy = very Bastante = quite Un poco = A little bit		
Menosque = lessthan	Demasiado=too realmente= really		

Year 8 La Ropa TOPIC VOCABULARY TRANSLATED

LA ROPA	
un traje	a suit
un jersey	a jumper
un abrigo	a coat
un top	a top
un vestido	a dress
Un cinturón	a belt
una camisa	a shirt
una falda	a blouse
	d SKIIL
una camiseta	a t-shirt
una corbata	atie
una sudadera (con capucha)	a sweatshirt (with hood)
una gorra	a baseball cap
unos pantalones	trousers

unos zapatos unos vaqueros unos calcetines

unas botas unas zapatillas de deporte

a blouse
a skirt
a T-shirt
a tie
a sweatshirt (
a baseball cap
trousers
shoes
ioans
SOCKS

boots trainers





RE 8.3 Crime and Punishment

 Key terms Punishment - A negative consequence for a bad action. Capital punishment - The death penalty. Retribution - Getting revenge. Protection - Keeping people safe. Reform - Helping people to change for the better. Forgiveness - Accepting an apology and letting go of anger. Human Rights - Things we are entitled to 	Reasons for punishment The main reasons for punishment are: retribution (to get pay-back or revenge); deterrence (to put people off committing crimes); protection (to keep dangerous criminals away from innocent people; and reform (to help people who live a bad life to learn how to live a good life and change for the better). Other reasons for punishment are: vindication (to show that good people are good) and reparation (to make amends for something you have done wrong).	Capital punishment Different types of Capital Punishment include: • Lethal injection. • Gas chambers • Crucified • Firing squad • Electrocuted • Hanging Many people support capital punishment as they believe that it protects us from dangerous criminals and deters people from committing crimes. Others people dislike capital punishment as they believe that there is always a chance that an innocent person could be executed.
 because we are human. Amnesty International - A global human rights organisation. Humanism - Non religious people who believe that we should try to live a good life just because we should. Impact - The effect something has. Justice - Fairness. 	Amnesty International This is a very well-known Human Rights organisation, who campaign against injustice and inequality world- wide. They also work to protect people in the world who are vulnerable to inhumane treatment and where human rights are violated. Amnesty International has over seven million members, both religious and non-religious. Amnesty International very famously campaign against the	Humanism Capital punishment is generally opposed by humanists because they believe that killing somebody intentionally is always wrong. Humanists believe in treating criminals fairly and they argue that by doing this it ensures that innocent suspects are also treated fairly. Humanists believe that the capital punishment
Describe : Say in detail what something or someone is like, and the impact it has. E.g. Describe Haij.	death penalty and hope for the death penalty to be abolished world-wide.	violates basic human rights, as the Human Rights Act states that we all have a right to life.
Explain: Say why something or someone is important, and the impact it has. E.g. Explain why Zakat is important Discuss: Write about at least two points of view and explain why these points of view are valuable or not. E.g. ""Zakat is the most beneficial of the Five Pillars of Islam" Discuss.	Islam There are many teachings in the Qur'an concerning capital punishment. For example the Qur'an says not to take life, which God has made sacred, except for a JUST CAUSE It is very important that Muslim authorities think carefully before they make a decision concerning taking life.	Christianity There are many teachings in the Bible that relate to capital punishment. For example, the Ten Commandments say "do not kill" whereas the Book of Genesis says "whoever sheds the blood of man, by man his blood shall be shed". Christians are therefore divided on their views of CP.

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Year 8 Subject Term Knowledge Organiser

Athletics

Knowledge

Be able to demonstrate my performance.

Show a range of skills in a competitive situation in track events 100m, 200m, 300, 400, 800m, 1500m and field events – throwing = Discus, Javelin, Shot Put – jumping = Long Jump, High Jump, Triple Jump. Key Skills:

Running events

- Starting: Use of Blocks (where relevant) Leg action: Foot strike
- •Cadence Bend running (where relevant) Stride pattern/pacing •

Jumping events

- Approach: Hitting appropriate speed for take-off Efficient transition
- between technical phases of the movements Flight: Appropriate elevation Landing movement of the body beyond initial point of contact

(long jump and triple jump)

Throwing events

• Travel: • use of cross step/glide (where applicable) • rotational throws

(where applicable) • Release phase: • Appropriate angle of release • Efficient transition between technical phases of the movements



Key Content and Terms to learn: HEPTATHLON: an athletic event in which competitors take part in seven sports events* HIGH JUMP: a sports event in which competitors jump over a bar LANE: parallel lines on a running track

Stretch and Challenge Task:

Research the past Olympic games, they have an incredible history! https://www.olympic.org/

Key Content and Terms to learn:

ATHLETE: a trained person in sports who takes part in track and field competitions BATON: a short tube passed from runner to runner in a race* BELL LAP: the final lap in a race* DECATHLON: an athletic event in which competitors take part in ten sports events* FALSE START: an invalid start of a race in which one of the competitors starts too early – before the official signal has been given

Each individual discipline has its own specific set of rules and competitors are expected to abide by these to ensure that the competition is fair.

Some athletics events you are likely to cover include the following;

• 100 metres, 200 metres, 400 metres, 4 × 100 metres relay, High jump, Long jump, Triple jump, Shot put, Discus throw, Javelin throw

Stretch and Challenge Task: Research local clubs and events , perhaps you could get involved...!

Year 8 Computing Term Knowledge Organiser

INTRODUCTION TO PYTHON

Python is a text based programming language . That can be used to create			Useful snippets of code			
A program is a set of precise instructions, expressed in a programming]	print ("Year 8")	Will display the string "Year 8". A string to be displayed is always found between " "		
language. This is called an algori	m		input ()	Reads a li keyboard	Reads a line of text from the keyboard and returns it	
In programming we use variable example would be Name =("F data stored.	uld be Name =("Paul") - Name is the variable and Paul is the		print	Is put before what you want to be output		
If we do not input data and have information returned, there is no point of a computer. To enter data using python Name = input(" please enter your name") Name is the variable and the data			Name=[item1 , item2, item3]	Allows ctreation of a list e.g. shopping = ["oranges", "apples", pears"]		
entered by the user will be stored in that variable. If we don't put the input in then the user will not be able to input and data If we want to enter a number the code used is slightly different Num = int(input("please enter a number, ")) please note the double brackets at the end and we put int before the input			Data types Whole numbe Letters, combi letters, numbe	rs— integer nation of ers— string.	Arithmetic operators + addition - difference * multiplication / division	
We can use selection in programming, for example if it is raining wear coat otherwise don't wear a coat. This looks like Raining = input(" is it raining, please answer yes or no, ") If Raining == "yes": print ("it is raining") Raining is the variable, if and else check else: and the print is the output. Don't forget the :		ə:	contained in ' want it display Yes/no or True boolean	''' if you 'ed /False—	Selection symbols < less than > Greater than = = Equal to	
print (" it is dry") Or when the value you want to enter is a number: Test =int(input(" What did you get in the test ")) If Test > 50: print ("Well done you passed") else: print (" Sorry you failed")		d.	Some common syntax errors in selection • use if and else—no capitals • A colon : is always required after the condition and after else. E.g. after the yes and the 50 in the examp • Use indentation to indicate which statements 'belo to the if block and the else block. You need a double = (look at the example) if you we the condition to be = to something			

Aboriginal Art History

- Aboriginal art is the oldest form of artistic expression in the world. Scientists have found Aboriginal art carvings that dates back at least 30,000 years.
- Experts believe that the Aboriginals migrated from the African continent over 30,000 years ago. They believe that they arrived in Australia by accident, as they where carried across the pacific ocean by a flood or tsunami that happened somewhere in the north.
- An important part of their culture is the performance of dance and art. Most of the dances are inspired by animals and nature. Dances and stories are passed down from generation to generation. Nothing is written down.
- Dreamtime is a type of Aboriginal Art. It is how they understand the world and rules that govern their lives. You could say it is similar to the bible.
- Aboriginals believe that the Dreamtime was way back, at the very beginning. The land and the people were created by the Spirits. They made the rivers, streams, water holes the land, hills, rocks, plants and animals.



These symbols are used as

and customs.

communication. The symbols

represent earth, their rituals, food

Year 8 ART HT5&6 Knowledge Organiser **Keywords:**

Design – A plan for the construction of an object or art piece before it is made.

> Pattern – A repeated decorative design.

Communication – Using imagery to communicate, for example, cave paintings.

Tribal – Things which belong to a tribe; a group of indigenous people.

Cultural - The ideas and behaviour of a society. Symbolism – Representing an idea in a visual way.

V 11 44

Construction of Boomerang

A **boomerang** is a flying tool with a curved shape used as a weapon or for sport. Aboriginal people used them to help

to hunt for food. They are primarily used for sport.

Step 1: Draw around the boomerang template. Step 2: Design your boomerang, adding an animal and symbols using earthy colours.

Step 3: Using cardboard, layer your boomerang to make it three-dimensional.

Step 4: Using papier mâché, make your boomerang layers smooth.

Step 5: Using your design idea from before, repeat your design neatly onto your boomerang. Use a base colour first. You could also add texture with string. Make sure to create small dots with different colours.

Symbolism •◎ * × !! !! ∧

The colours used represent parts of the Farth. man of the second secon Black: Represents night time Yellow: This is the sacred colour. Aboriginal Art consists of symbols. The colour of the sun. Red: The colour for land and blood.

> White: The spirt colour, like smoke, wind and lighting.



Year 8 Drama HT6 Knowledge Organiser

Summary of topic Students explore Greek myths and choral strategies to fully understand how drama was created.

<u>Aims of the topic</u> To be introduced to the Greek Theatre genre of where drama began.

DRAMA

Greek Theatre Y8 Knowledge Organiser

Key Words

•	Ampitheatre	•	Zeus
•	Theatron	•	Chorus
•	Parados	•	Orchestra
•	Skene	•	
•	Poseidon	•	



Skills & Definitions Choral Speech – speaking together at the same time. Parados – Where the chorus stand. Skene – Where the actors got changed. Theatron – Where the audience sat. Orchestra – Where the actors performed. Ampitheatre – Greek outdoor theatre. Posiedon – King of the ocean. Zeus – Leader of the Gods. Medusa – Gorgon, if you stare at her she turns you into stone. Athens – Capital city of Greece. Trestle mask – Worn by the actors.





Assessment & Performance Tips

The assessment is a group scripted piece using a poem stimuli of Medusa.

- Face the audience at all times
- Speak loud and clear so everyone can hear you
- Try not to laugh and stay focused.
- Use a real range of movement skills.
- Use choral skills.
- Add emotion to your performance.
 - Make your performance abstract. Look beyond the meaning of words.



Year 8 Food

The yeast **ferments** the sugar in the food. Ferment = yeast feeds on sugar and produces **CO2** - Carbon Dioxide X

Alcohol



Rubbing in. Butter and flour are rubbed together. This laminates the flour and stops the gluten being formed. This creates a crumbly buttery texture. Ratio of 1:4 Fat : Flour



Melting. Butter is melted before adding to the sugar mix. This helps to create a dense, moist cake as there is no step to create air.



Creaming. This method adds lots of air to the cake. Firstly the butter and sugar are creamed together before beating in the egg. The egg traps lots of air at this stage. SR flour is then carefully folded in to ensure the air remains in the batter. This also contains a chemical raising agent. Ratio 1:1



All in One. This method puts all the ingredients together and then a big mix. Usually this is used for cakes that use oil rather than butter, so there is no reason to cream before hand.



Test 1: Ranking Test Test 2: Rating Test Test 3: Profiling Test





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CLASS CONCERT

