

### Year 8

NAME:		
	Form Group:	

### SUMMER TERM SUBJECT KNOWLEDGE ORGANISERS

You will definitely enjoy what you've worked hard for—you'll be happy; and things will go well for you

Proverbs 128:2

### YEAR 8 - ART

### **African Culture / Masks**



### **History / Information**

African tribal masks have deep cultural and spiritual significance. Traditionally made from wood, metal, or fabric, they are used in ceremonies, rituals, and celebrations. Masks often represent spirits, ancestors, or mythical beings. During dances, wearers embody these figures, seeking guidance, protection, or blessings. Each mask's design and symbolism vary by tribe, reflecting beliefs, history, and social values. Some masks are used in rites of passage, marking life stages like adulthood or marriage. Others honor deities or nature. African masks are also admired for their artistic beauty, influencing global art and inspiring modern artists like Pablo Picasso.

### **Key Words**

- 1. Symbolism African masks often carry deep symbolic meaning, representing spirits, ancestors, animals, or moral values within traditional beliefs.
- 2. Ritual Masks are commonly used in ceremonies and rituals, such as initiations, funerals, and harvest festivals, to connect the physical and spiritual worlds.
- **3. Stylisation** Features on African masks are frequently exaggerated or simplified (e.g. elongated faces, large eyes) to emphasise spiritual qualities rather than realistic likeness.
- **4.** Cultural Identity Masks are unique to different African tribes and regions, reflecting the traditions, beliefs, and values of specific communities.
- **5.** Material Traditionally crafted from natural materials like wood, raffia, metal, fabric, and beads, each material adds meaning or status to the mask.
- **6. Performance** Masks are not just art objects; they are worn during dances and performances, bringing them to life through movement and sound.

### **African Masks Characteristics**

- Abstract Design African masks often use simplified or exaggerated shapes instead of realistic features to convey deeper symbolic meanings.
- 2. Symmetry Many masks are symmetrical, meaning both sides mirror each other, which creates balance and harmony in the design.
- **3. Bold Patterns** Masks frequently feature strong, repeated patterns such as lines, dots, and shapes, which often have symbolic or tribal meanings.
- **4.** Natural Materials Traditionally made from wood, raffia, animal skin, beads, shells, or metal, these materials reflect a close connection to nature.
- **5.** Expressive Features Masks often highlight certain facial features, such as large eyes, mouths, or elongated noses, to express specific traits or spiritual powers.
- 6. Use of Colour Colours on masks are symbolic; for example, red may represent danger or power, while white could symbolise purity or the spirit world.
- 7. Functionality African masks are designed to be worn or used in rituals and performances, not just for decoration, making them both artistic and practical.











# Year 8 – Text Based Programming - Python

# Overview KEY VOCABULARY: LOOK COVER, WRITE AND CHECK!

	MET TOWNSON TOWNS WITH THE MILE AND CHECKS
Algorithm	An algorithm is set of instructions or rules that need to be followed in order to perform calculations or to solve a problem.
Sequence	The set of instructions or rules that an algorithm uses have to be in the right order. We call instructions in the correct logical order a 'sequence'.
Assign	When we set a variable to a given value $-$ like my_var = $3 -$ we say that we are "assigning the value of 3 to the variable my_var." We try not to say 'equals'!
Data type	A data type is used to identify data that has common characteristics and purpose. For example, text and numbers are different data types because they are used for different purposes. Python has four data types: string (text), integers (whole numbers), floats ( decimal numbers) and Boolean (either a 'true' value or a 'false' value).
Variable	A variable is a name given to an item of data so that the data can be stored in memory while your Python program is running. Variables enable you to input data from the keyboard and to change the data however you need to.
Casting	When we want to change the data types of a value (or the value assigned to a variable), we use casting. Python provides us with the code to do this. So for example, this code changes 43 from a string data type to an integer: int("43")
Syntax Error	A syntax error is a mistake in your Python program that prevents it from running (executing). Syntax errors are like spelling and grammar errors. There are also other types of error besides a syntax error: logic error and runtime error.
Input and output	With Python, we can print text and numbers to the screen, and we can also ask the user to input text or numbers using the keyboard.
Pseudocode	Pseudocode is instructions that are written in English (or a language of individual choice). Pseudocode is used to plan-out the correct sequence of instructions and to clarify the key features you may also need to use to make your program work correctly – such as loops and selection statements.
Condition/ Selection	A condition or selection statement is the name given to Python's if-elif-else statement that is used to decide which path a program will take. If a condition is 'true' then Python will choose to run specific lines of code, but if false Python will choose to run different lines of code.
roops	Python loops allow you to keep revisiting previous lines of code until a certain condition is false. We can do this to use Python to count from one number to another, and then stop. We can also use loops to keep asking the user for input from the keyboard until the user enters particular text (such as 'quit') or a number (such as zero).

# variable



ST. ANNE'S
RC. VOLUNTARY ACADEMY

hame=input("What is your name?")
print("Hi", name, ", it's nice to meet you")

### output

concatenation

string manipulatic

Selection (IF)

striker=input("Who is the best premier league striker 22/23? ").lower() if striker=="haaland":

print("No-one is going to beat Haaland's goal count now")
print("Whatever! No one is better")

## Selection (ELIF)

purity construction of the second of th

# Iteration (WHILE/FOR)

s hopping the state of the stat

while shopping =="y":
 item=input("What item would you like to add to your list? ").lower()
 shoppinglist.append(item)
 shopping=input("Would you like to add another item? ").lower()

for x in shoppinglist:
 print(x)

### **Boolean Operator**

== both sides equal

> Greater than

< less than

=> Equal to or greater than

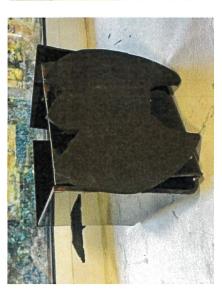
=< equal to or less than



# Y8 Construction Knowledge Organiser

# Postcard questions!

What is the difference between all 3 stop buttons around the room?





What is the machine called that we use for shaping the plastic?

the QR code to revise some information Ergonomics V Anthropometrics! Scan

What does a Photochromic Material react to?

# Types of Job Production! Scan the QR code to revise some information -



# Skills you will learn & develop

Marking and measuring

Cutting Skills (Coping/Tenon and/or Scroll Saw)

Drilling with the Pillar/Bench Drill

Accuracy in bending your plastic

Safety in the workshop Painting your MDF Theory work & drawing in isometric



Key words to know for Smart Materials – Thermo – Temperature Hydro – Water Photo – Light Phosphorescent – To glow



### Year 8 Drama - Physical Theatre

### Overview

As an actor you will need to be able to explore methods of communication other than verbal. The use of movement and mime will enable you to appreciate the importance of body language and the unspoken word.

Keywords	History of Mime			
<b>Choreography</b> - the sequence of steps and movements in dance or figure skating, especially in a ballet or other staged dance.	A mime artist is someone who acts out a story through body motions, without use of speech.			
<b>Objective Mime</b> - This refers to illusions of objects and place; including the creation of weight, size, and space	The origins of mime can be traced back to the theatre of ancient Greece. The Romans carried on			
Subjective Mime - This covers the expression of feeling, thought, and motivation, again with the whole body, not just the face, hands, and arms.	the tradition, most notably during the reign of Emperor Augustus. The Christian Church, declaring the art form indecent, closed			
Mime - the theatrical technique of suggesting action, character, or emotion without words, using only gesture, expression, and movement.	down many theatres and excommunicated the actors involved. Mimes continued to			
Abstract mime - Usually doesn't have a main character or plot, but focuses on provoking thought about a particular subject	work in traveling theatre groups throughout Europe, also appearing in the comic and religious plays of the Middle Ages			

### What do you think? Where did Mime flourish? Why do you think it was here? Is mime a useful tool to communicate? Why do you think this? Why do you think mime is so important in society today? What other theatrical styles do you know which rely heavily on mime?



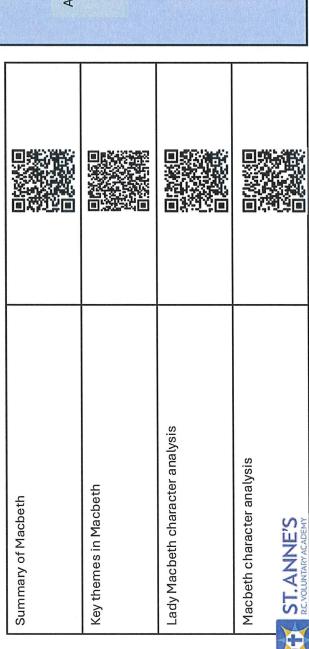
# English Year 8 Knowledge Organiser – Macbeth

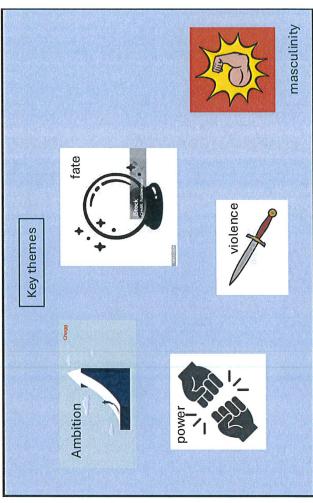
Key words	· · · · · · · · · · · · · · · · · · ·	Unit
ica) words		
Supernatural		Macbe
Prophecy		topic, v We will
Subvert	AVIII CIPI)	
Manipulate	MACBETH	
Regicide		

### Unit Overview

eth is a play by Shakespeare about a man and his greedy ambition to become king. Throughout the Il also produce a piece of persuasive writing on the topic of gender and societal expectations. we will discuss themes of gender, the supernatural and the idea of a tragic hero.









### **KEYWORDS**

Versatile - Ability to be used for more than one purpose.

Eatwell guide -A healthy eating model showing the types and proportions of foods needed in the diet.

Hygiene- Cleanliness and clean conditions to maintain health and prevent disease spread.

Sensory-Human testing of the taste, smell, texture and appearance of a food product.

Modified - Making changes to something e.g. a recipe

**Cross Contamination-** The transfer of bacteria from one food to another, from humans, animals other food or equipment.

Heat Transfer - The way heat moves from one area to another through conduction, convection and radiation.



### CLEANING

### Cleaning kills bacteria

- Wash hands before during and after food preparation
- Wash all worktops, utensils, chopping boards and
- equipment Rinse unwashed salad, fruit and vegetables

### COOKING

Cooking kills bacteria Food needs to be heated till steaming hot with the core temperature reaching

- 60 degrees Celsius for 45 minutes 65 degrees Celsius
- for 10 mins
- 70 degrees Celsius for 2 minutes
- 75 degrees Celsius for 30 seconds 80 degrees Celsius for 6 seconds

### Chilling prevents microbial growth

- Cool food to below 5 degrees Celsius as quickly as possible and defrost food in the fridge
- Fridge =- 0 degrees -5 degrees Freezer 15 degrees

or below CROSS CONTAMINATION

Bacteria are transferred from one

- Keep raw and cooked food separate
- Never was raw meat Keep raw meat and shellfish on the botton shelf of the fridge

### Support



QR CODE - Eatwell Guide



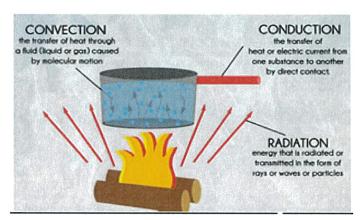
QR CODE - Sensory Testing in Food



QR CODE - Health and Safety / cross contamination











QR CODE: Methods of Heat transfer video/website

### WHAT DO YOU THINK?

Why is Food hygiene and safety important in Food Technology?

Why are staple foods versatile? How can a recipe be modified?

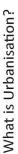
What is sensory testing used for? Which sense are used?

What are the different methods of heat transfer? Can you identify which ones you have used in food technology?

# **Urbanisation**

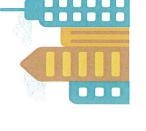






The process by which an increasing percentage of a country's population comes to live in towns and cities.

HICs were the first to urbanise and generally have the largest currently have lower rates of urbanisation but are urbanising proportion of their population living in towns and cities. LICs rapidly.



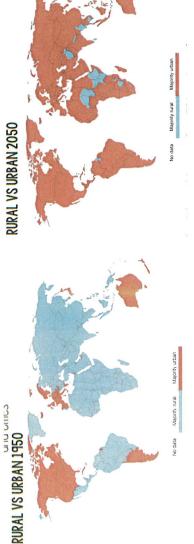
million people. Today more than that has a population of over 10 The number of cities with over 10 million people is increasing. population live in urban areas. A megacity is defined as a city 50 per cent of the world's



- difference between the number of births and 1. Natural increase (or decrease) - this is the the number of deaths.
- 2. Migration this is the movement of people into or out of the city.







Rural-urban migration is the movement of people from rural areas to urban areas. People move because of push and pull factors.

- A push factor is a reason to leave an area e.g. harsh climate, lack of jobs.
- A pull factor is a reason to move into an area e.g. better facilities, more job opportunities.

legal rights to the land they are built upon. The people are living there illegally and do not own the land. They provide housing for many of the world's poorest people Squatter settlements are any collection of buildings where the people have no cheaply. Squatter settlements also often lack proper sanitation, water supply, cardboard. These are all materials that are available either freely as waste or and offer basic shelter usually in LICs. They are often constructed with poor materials initially, including plastic sheeting, corrugated metal, wood and electricity or telephone services.

# **Year 8 Tectonic Hazards**

# CONSTRUCTIVE/DIVERGENT MARGIN

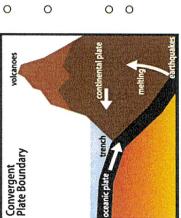




This causes volcanoes. If the boundary is under the ocean, the lava cools when it reaches the surface and can construct new land.

As the plates move apart, the friction may cause small earthquakes. These do not cause much damage 0

# CONVERGENT/DESTRUCTIVE MARGIN



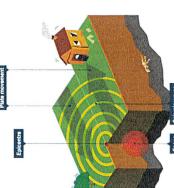
An oceanic plate collides with a continental

sink into the mantle and melt. This is called The denser, or heavier, oceanic plate will subduction

When the plate melts, it releases energy 0

The crust becomes molten magma. This earth causing a violent volcanic eruption. may be forced to the surface of the

# CONSERVATIVE/TRANSFORM MARGIN



Two plates slide past one another due to the friction of convection currents in the mantle.

The plates get caught or snagged on each 0

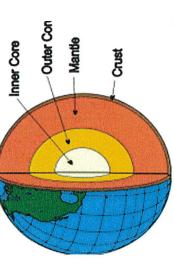
Eventually, the pressure becomes so great that they suddenly slip past each other 0

The pressure continues to build between the

0

This releases huge amounts of energy and causes an earthquake. 0

# The structure of the Earth.



# Why do people live near volcanoes?

### VOLCANIC SOII

Fertile soil because of all the minerals. This means that it is good for growing crops



GEOTHERMAL ENERGY

A very cheap and environmentally friendly way to create energy

### TOURISM

Volcanoes generate money and jobs for the people living near them



### PREDICTION

systems in place volcanoes for activity and put warning Volcanologists and scientists monitor





### History - Year 8



### **Timeline**

**1607** – The first British colony is founded called Jamestown in Virginia, North America.



**1732** – Britain controls the 13 colonies of North America.



1795 - Britain takes control of South Africa from Dutch settlers



**1858** - Britain takes control of india from East Indian trading company.



Rebellions/massacres in India: Sepoy Rebellion 1857; Jallianwala Bagh Massacre 19 April 1919



After 1901, colonies gain their independence and some join the Commonwealth: 1910 South Africa; 1947 India and Pakistan; 1982 Canada

### **The British Empire**

### **Key Terms:**

**Empire** - a group of countries or territories ruled by another Country or State

**Colony –** a country or area of land ruled by another Country.

**Trade** – the exchange of goods or services between people or countries usually for money.

**Indigenous** – the original people who live in a place before it is colonised.

**Native** – someone born in a country and belonging to it.

**Massacre** – the violent killing of a large number of people

Rebellion - organised resistance to authority.

**The Raj** – Ruler – in this case it refers to the British ruling in India.

**Transportation** – the transporting of criminals to another country to serve time doing (for example) hard labour.

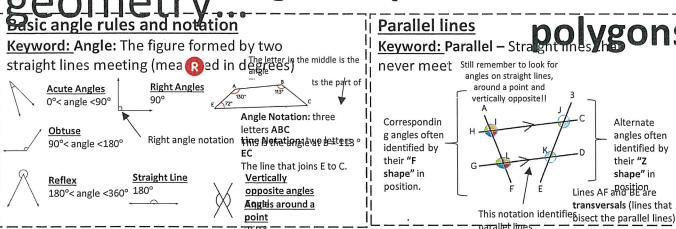
**Convicts** – people who have broken the law.

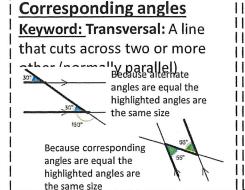


The Story: 1500-1700 has become known as the 'Age of Exploration' when ships set sail out of Europe to find and conquer land. This resulted in the British Empire. By 1913 the empire had grown to rule over 400 million people, making it the largest empire in history. British government and society benefitted economically from the empire. The indigenous people in the new colonies were presented to the British public as 'uncivilised', because their way of living was different from that of people in Europe. This meant people began to believe that the British should continue to grow their empire to bring 'civilisation' to these places, even by force. There were also *missionaries* who believed it was their duty to travel to new countries and convert people to Christianity. The people colonised by the British had British laws and customs imposed upon them, lost their ability to govern themselves and were, in many cases, violently oppressed.

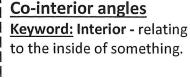
### Year 8 - Developing

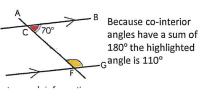
geometry.... Angles in parallel lines and

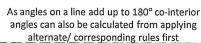


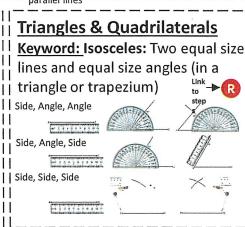


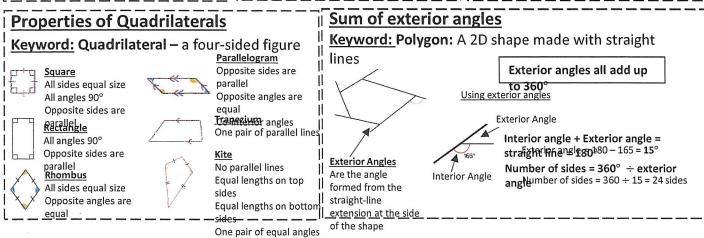
Alternate/

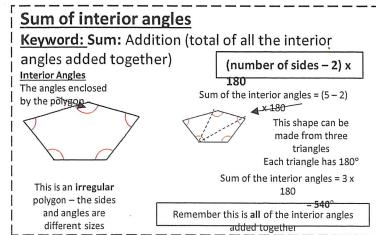


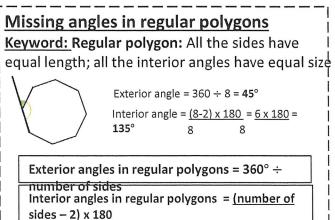






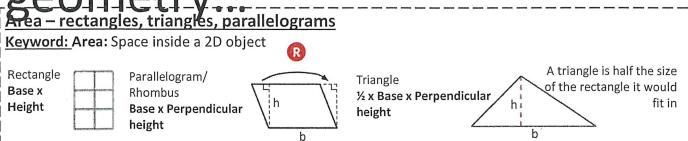




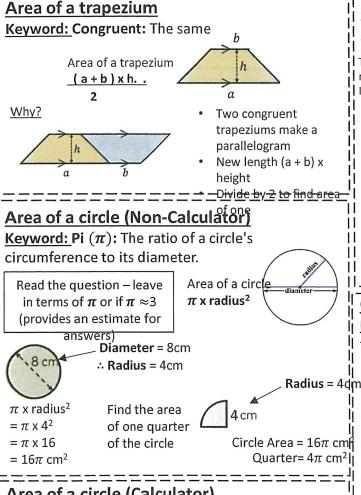


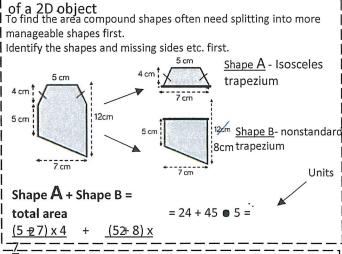
number of sides

### Year 8 - Developing Area of trapezia and Circles

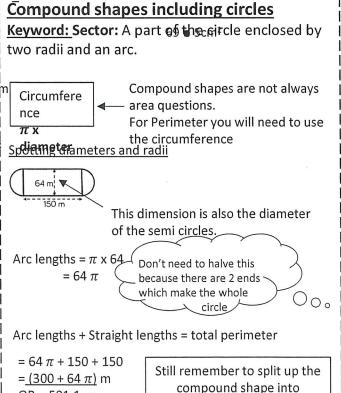


Compound shapes





Keyword: Perimeter: Length around the outside



smaller more manageable

individual shapes first

OR = 501.1 m

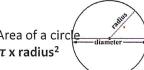
### Area of a circle (Calculator)

**Keyword: Formula:** A mathematical relationship/ rule given in symbols. E.g. b x h = area of rectangle/





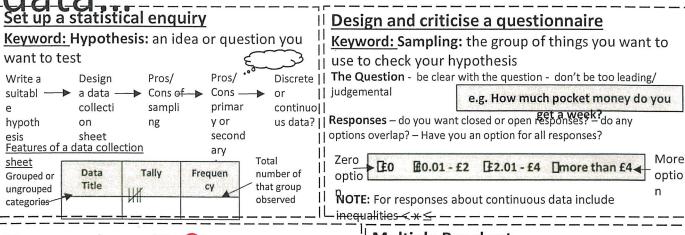
Area of a circle  $\pi$  x radius<sup>2</sup>

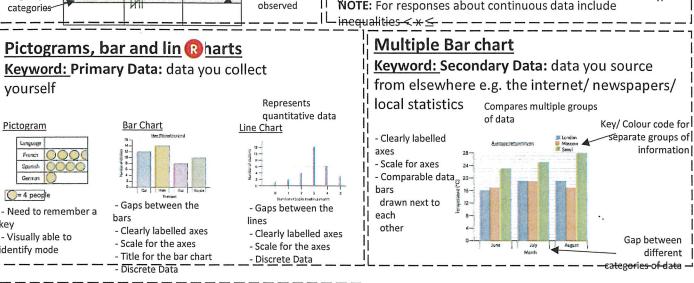


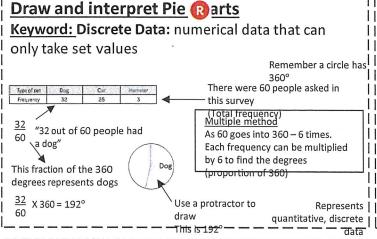
How to get  $\pi$  symbol on the calculator

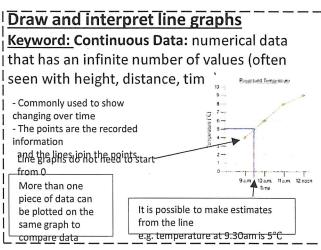
It is important to round your answer suitably – to significant figures or decimal places. This will give you a decimal solution that will go on forever!

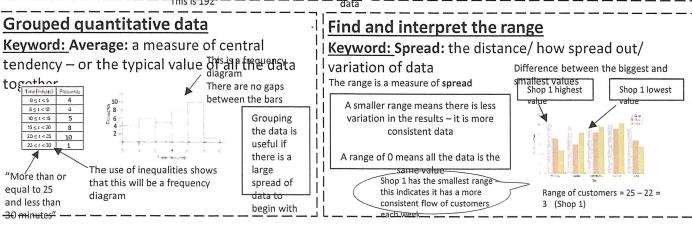
### Year 8 - Reasoning with The data handling cycle



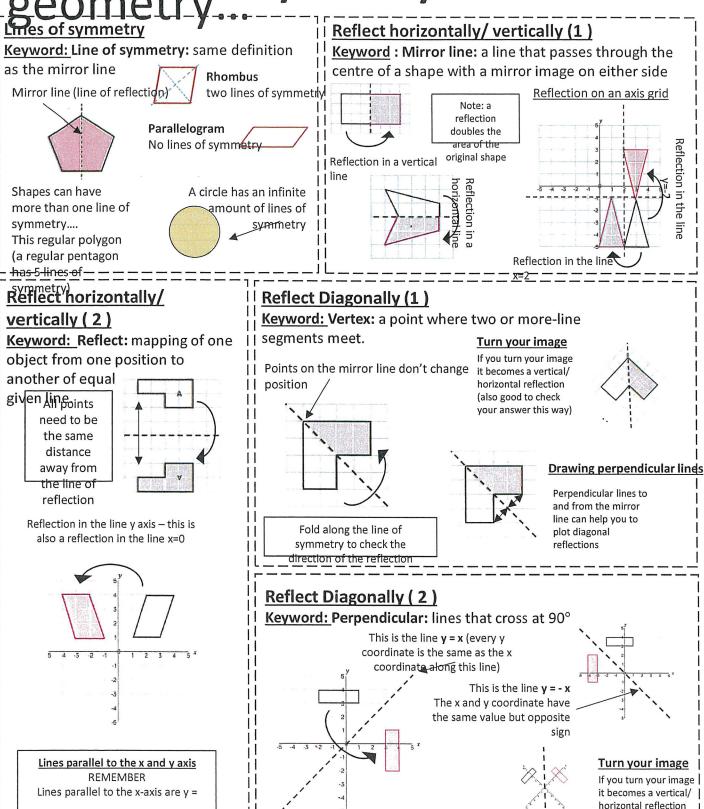








### Year 8 - Developing Geomet Line symmetry and reflection



tines parallel to the y-axis are x

(also good to check

your answer this way)

### Year 8 - Reasoning with Measures of location

### Mean, Median, Mode

**<u>Keyword:</u>** Average: a measure of central tendency – or the typical value of all the data

together

The Mean

A measure of average to find the central tendency... a typical value that

repr

24, 8, 4, 11, 8,

Find the sum of the data (add the 5% lues)

Divide the overall total by how many pieces of data you

have Mean =

The Median

The value in the center (in the middle) of the data

24, 8, 4, 11, 8,

Put the data in order 4, 8, 8, 11, 24

Find the value in the m4gd8 8, 11, 24

Median = NOTE: If there is no single middle value find the mean of the two

The Mode (The modal value)

This is the number OR the item that occurs the most (it does not have to be numerical)

24, 8, 4, 11, 8,

This can still be easier if it the data is ordered

4, 8, 8, 11, 24

Which average best represents the weekly

wage?

. . .

Mode = 8

### Choosing the appropriate average

 $55 \div 5$ 

**Keyword:** Represent: something that show's the value of another

The average should be a representative of the data set – so it should be compared to the set as a whole - to check if it is an appropriate average

Here are the weekly wages of a small firm

£240 £240 £240 £240 £240 £260 £260 £300 £350 £700

Put the data back into context

Mean/Median – too high (most of this company earn £240) Mode is the best average that represents this wage

It is likely that the salaries above £240 are more senior staff members – their salary doesn't represent the average weekly wage of the majority of employers

\_\_\_\_\_

### **Identify outliers**

<u>Keyword:</u> Outlier: a value that stands apart from the data set

Outliers are values that stand well apart from the

rest of the data

Outliers can have a big impact on range and mean.

They have less impact on the median

Height in cm

152 150 142 158 182 151 153 149 156 160 151 144

Sometimes it is best to not use an outlier

The Mean =

file Median =

<del>f2</del>29Mode =

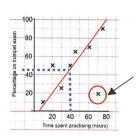
£240

calculations

Where an outlier is identified try to give it some context.

context.
This is likely to be a taller member of the group. Could the be an older student or a

teacher?



Outliers can also be identified graphically e.g. on scatter graphs **Comparing distributions** 

<u>Keyword:</u> Spread: the distance/ how spread out/ variation of data

Comparisons should include a statement of average and central tendency, as well as a statement about spread and

Here are the number of runs scored last month by Lucy and James in cricket matches

Lucy: 45, 32, 37, 41, 48, 35 James: 60, 90, 41, 23, 14, 23

\_ucy

Mean: 39.6 (1.d.p), Median: 38. Mode: no modeļames has two

Range: 16

Mean: 41.8 (1.d.p), Median: 32, Mode: 23, Range: hip act on the

"James is less consistent that Lucy because his scores have a greater range. Lucy performed better on average because her scores have a similar mean and a higher median"

### How the Musical Elements are used in Film Music

### **Dynamics**

Forte (loud) = represent power
Piano (soft) = epresent weakness/calm/resolv.
Crescendos = increasing threat, triumph or proximity
Diminuendos used for things going away into the distance
Horror film soundtracks often use extreme dynamics or sudden

dynamic changes to 'shock the listener'.

### Rhythm

Long notes often used to describe vast open spaces
SHORT notes often used to depict busy, chaotic or hectic scenes.
IRREGULAR TIME SIGNATURES used for tension.
OSTINATO rhythms for repeated sounds e.g. horses.

### Time Signatures:

2/4 or 4/4 for Marches (battles) 3/4 for Waltzes 4/4 for "Big Themes"

### Melody

RISING MELODIES increasing tension FALLING MELODIES for defeat.

Q&A PHRASES can represent good versus evil.

The INTERVAL OF A FIFTH is often used to represent outer space with its sparse sound.

### Instruments

Brass + Lower Strings = usually represent evil sinister characters
Woodwind + upper strings = good characters
ARTICULATION - LEGATO for flowing or happy scene
STACCATO for 'frozen' or 'icy' wintery scenes.
ACCENTS (>) for violence or shock.

### <u>Texture</u>

Thirk/Sparse = bleak or lonely scenes
Thick/Sparse = active scenes or battles

### **Tonality**

MAJOR = happy MINOR = sad

### Harmony

ONSONANT HARMONY OR CHORDS for "good"
DISSONANT HARMONY OR CHORDS for "evil".
EDAL NOTES – long held notes in the BASS LINE
used to create tension and suspense

### **History of Film Music**

Early films had no soundtrack - known as "SILENT CINEMA". Music for these films was provided live - usually IMPROVISED by a pianist or organist.

The first **SOUNDTRACKS** appeared in the 1920's and used existing music.

In the 1930's and 1940's Hollywood hired composers to write huge Romantic-style soundtracks.

**JAZZ** and **experimental MUSIC** was sometimes used in the 1960's and 1970's.

Today, film music often blends **POPULAR**, **ELECTRONIC** and **CLASSICAL** music together in a flexible way that suits the needs of a particular film.

### Yr8 Music

**LEITMOTIF** – A frequently recurring short music idea associated with a character, place or object.

Leitmotifs can be changed through **SEQUENCING**, **REPETITION** or **MODULATION** giving a hint as to what may happen later in the film or may be heard in the background giving a "subtle hint" to the listener *e.g.* the "Jaws" Leitmotif

### The purpose of Film Music

Film music is a type of **descriptive music** that represents a **mood**, **story**, **scene** or **character** through music. it is designed to **support** the action and emotions of the film on screen.

Film music can be used to:

- create or enhance a mood
- function as a leitmotif
- to emphasise a gesture (mickey-mousing)
- provide unexpected juxtaposition/irony (using music the listener wouldn't expect to hear)
- link one scene to another
- influence the pacing of a scene making it appear faster/slower
- give added commercial energy music is released as a soundtrack
- describe the location or historical period

### **Key Words**

- Soundtrack The music and sound recorded on a film.
   It can also mean a collection of music and songs from a film sold individually as a CD or download.
- Music Spotting A meeting/session where the composer meets with the director and decides when and where music and sound effects are to feature in the finished film.
- Mickey-Mousing when the music fits precisely with a specific part of the action in a film
- Storyboard A graphic organiser with images displayed in sequence to help the composer plan their soundtrack.
- Cuesheet—A detailed listing of MUSICAL CUES
  matching the action of a film so that composers can
  time their music accurately.
- **Diegetic Music** Music within the film for both the characters and audience to hear *e.g.* a car radio, a band in a nightclub or sound effects.
- Non-diegetic Music Music which is put "over the top" of the action of a film for the audience's benefit and which the characters within a film can't hear – also known as UNDERSCORE or INCIDENTAL MUSIC.



### PE Knowledge Organiser- Athletics



### Sprints

When sprinting drive knees high, keep eyes close to the body and move them hip lip. Look forwards with chest up and shoulders relaxed. When finishing dip forwards slightly as you cross the line.





### Long Distance

Remember to breathe in through your nose and out through your mouth. Run in a fashion, with shoulders relaxed, taking nice long strides to cover more Build up distances to try and run continuously.





and focus on driving Take off-plant foot on (but not over the board), eyes up, hips up and focus on driving up into the air. Flight-stretch both legs forwards and reach towards your feet with hands. Landing- aim to land feet together, and body forwards/sideways (not backwards).





### High Jump

Run up- a curved run up which brings you sideways to the mat. This should be a sprint. Take off- drive knee closest to the mat up high. Lift hips, lean back, and flick heels into the air as you go over the bar. Landing-land on your back, lifting feet into the air to avoid hitting the bar.





### Shot Putt

Sideways stance with weight on back leg- toe, knee and chin all in alignment. Shot held in fingers, not touching palm, and pushed into neck with elbow raised. Transfer weight from back leg to front, twisting torso. Push shot up and out at a 45-degree angle.





### Discus

Sideways stance with weight in the back leg, discuss held with very ends of fingertips. Non discus hand outstretched at 45-degree angle. Swing discus (palm towards the ground) up to reach non discus hand several times. As discus reaches 45-degree angle straight back leg. After 3-4 wind up swings release the discus forwards off your index finger.





### PE Knowledge Organiser- Cricket

### **KEYWORDS**

Bat- a flat, wooden piece of equipment used by the batter to strike the ball and attempt the score runs.

Wicket- consists of three stumps and two bails. It is a target for the bowler to hit and the batter must protect. Knocking this off means the batter is out.

Bowler- the player delivering the ball with the aim of trying to get the batter out.

Run- the main way of scoring in cricket. Runs are made by two batters running between the wickets after hitting the ball

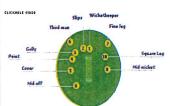
Over- a set of six legal deliveries bowled by one bowler. After one over, a different bowler takes over from the opposite end of the pitch.











### Rules of Play

- Cricket is played between two teams each made up of eleven players.
- Games comprise of at least one innings wh ere each team will take turns in batting and fielding.
- The fielding team will try to get the batsmen out by trying to hit the wicket with the ball when bowling, catching a shot from the batter, hitting the batsman's leg in front of the wicket or hitting the wicket before the batter gets to the wicket.
- The batmen try to score as many runs as p ossible before getting out by
- Each time you run one full length of the pi tch it equals 1 run. Hitting the ball to the boundary along the ground is 4 runs. Hitti ng the ball over the boundary on the full equals 6 runs. The fielding tea m must get 10 batsmen out before they ca n change over and start batting.
- The aim of the game is to score as many r uns as possible before the fielding team t akes 10 wickets. The team with the most r uns wins.

### Bowling



- Place your thumb and index finger on the seam of the ball, on opposite sides of the ball. Place your middle finger on the other edge of the seam near your index finger.
- Carry the call close to your chin. Coil your body then lean back, drop your elbow as you plant your leading leg. Straighten your elbow and your arm then shift your weight to the lead leg.
- Thrust your bowling arm forward and rotate your arm past your ear, snapping your wrist to release the ball.

### Batting



- Stand side on the bowler, feet should width apart with knees slightly bent. Hold the bat with both hands close together on the handle, maintaining a firm but relaxed grip.
- As the bowler approaches, the bat should be close to the body. Move the front foot towards the ball, keeping the back leg straight and foot planted.
- Make sure your head and eyes are aligned with the ball throughout the swing. The bat should be angled so the face is towards the ground. When swinging, keep the elbows bent and locked. Follow through and strike the ball by swinging in a straight line.

### Wicket keeping



To be an effective wicket keeper, the sportsperson needs to master catching and stumping techniques (presenting their hands in a way which maximises catching, quick reaction time to the batsman's movement), develop proper footwork and body positioning (crouched position, ready to move quickly whilst maintaining stability behind the stumps), and practice clear and effective communication with the bowler (allows for coordinating strategies and making necessary adjustments).

### Overarm throw



### Step One

Stand shoulder width apart, sideways to the target with the throwing arm taken back behind the head at a 90-degree angle. Point the non-throwing arm at the target.

Step Two

Transfer weight from back foot to the front foot by rotating hips and torso towards target. Pull throwing arm towards the target, leading with the elbow. Release the ball in front of head. Follow through with your throwing arm pointing toward the target.





Why would I want to use different bowls when bowling? Why is spacing so important to consider when fielding?



### PE Knowledge Organiser- Tennis

### **KEYWORDS**

Backhand- a stroke in which the ball is struck on the opposite side of the body to the racquet hand.

Drop shot- a gentle shot that just lands over the net.

Forehand- a shot hit from the racket arm side of the body.

Serve- the shot that begins each point, in which the server hits the ball after tossing it into the air. The serve must go diagonally across the court and bounce in the serving box.

Rally- a long series of shots.

Grip- how to hold the racket in tennis that is hit in a high arc, usually over the opponent's head.







### Scoring

A player or team has to win four points to win a game. Any game starts at 0-0 and the zero point in tennis is called love. The progression of points occurs as follows:

First point - 15
Second point - 30
Third point - 40
Fourth point - Game

However, if both players win three points each in a game (i.e score is 40-40), then it's called a deuce

After deuce, the player who wins the next point has advantage. If the player/team who has advantage wins the next point, then they win the game.

However, if the opposing player wins the next point after advantage, then the score moves back to deuce. A player/team needs to win two consecutive points after deuce to win a game.

### Serving



1. Face sideways at an angle to the baseline. Fully extend the elbow down so the racket is pointing to the floor and fully extend the other elbow downwards and hold the ball in the palm of your hand facing up.

- 2. Separate the arms, extending the right elbow backwards and left elbow upwards whilst transferring body weight from front to back foot.
- 3. The left arm throws up the ball and arm stay straight with the ball slightly in front of you. 4. When the ball reaches the highest point, accelerate the racket head at the ball in a
- throwing action, strike the ball as the elbow is fully extended and aim the racket downwards. Step One- stand on the balls of feet with the knees slightly bent whilst facing sideways with shoulder and arm pointing towards opponent. The racket arm should be at a 45-degree angle with the face of the racket at head height.

Step two-transfer body weight from back to front foot and rotate the body quickly to face forwards. The racket head lowers and the forward swing travels from low to high, aiming to hit the ball at its highest point.

Step three- contact ball around waist height, beginning to rotate the racket at impact then follow through with the racket.

### Forehand



### Backhand



The weaker hand should be on the top of the racket handle whilst racket is at waist height. Hands and trunk should turn to the side, so the shoulder of right arm is pointing to the ball. The right elbow should be fully extended whilst you transfer body weight from front to back foot.

The body should rotate quickly facing forward, transferring weight from back to front foot and the racket head should lower as accelerating forward. The swing should be low to high aiming to hit the ball at its highest point.

Make contact with the ball at around waist height and begin rotating the racket at impact. The racket should follow through to finish at the right shoulder.

### Ready Position



Both hands start on the racket. Feet should be shoulder width apart with head forwards into the court. The knees should be slightly bent so centre of gravity is lowered. When the opponent hits the ball, go onto toes for extra spring in legs. Always return to the centre of the court when striking the ball.

Breakdown of

Tennis Rules



Where would be best to hit the ball to outwit my opponents?

Why is it important to go back to the middle of the court when hitting the ball?

What happens during a serve if the ball hits the net but goes over, landing in the service e box?



### PE Knowledge Organiser- Rounders

### KEYWORDS

Underarm- technique of throw when you are bowling to the batter.

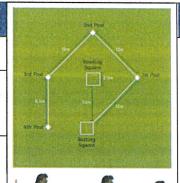
Batting-the player trying to score rounders for their team. They do this by hitting a bowled ball and running around the bases without stopping.

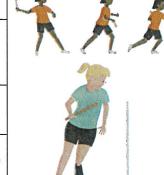
Overarm Short- A throw that is used between the bases. This is when the fielding team are trying to get a player out by stumping the base.

Overarm Long- A throw that is from the field to someone at a post or the bowler. It is travelling a further distance than overarm short.

Long Barrier- a technique to control a rounders ball that is travelling along the ground.

No Ball- the ball has been bowled above the batter's head, below the knee, wrong side of the body, too wide or too close to the body.





### Rules of Play

- 1. You must start in the batting box and not step out of it.
- 2. You only get 1 ball bowled at you. after which you must run whether you hit it or not.
- 3. You must keep in contact with a post once you have decided to stop running.
- 4. A no ball means you get another attempt at hitting the ball.
- 5. You must run around the outside of the post to the last post where you must hit the stump to get all the way round.
- 6. If you get to the second post you score half, if you get all the way past the fourth post, you get a full rounder.

### Batting



- Stand sideways on to the bowlder with the bat up and behind you. The arm will be on a 90-degree angle.
- Step in with the opposite leg.
- Swing through with the hips and follow through with the bat to contact the ball.
- Move body and arm position to hit the ball in a different direction but always in front of you.
- DO NOT DROP THE BAT, unless the umpire shouts no ball you must run.

### Underarm Throw



Hand ball in dominant hand, step forward with the opposite leg, swing arm and release the ball before shoulder height. The ball must reach the batter between their knee and head. Aim for the backstop's hands.

Types of bowls-straight bowl, donkey drop, spin bowl

### Long Barrier



### STEP ONE:

Approach the ball at speed and as you get into line with the ball, twist your upper body, leading with the shoulder furthest from the ball.

STEP TWO:

Bend both knees, so that the knee of the leg nearest to the ball touches the group, but it is also next to the back of the heel of the other leg.

STEP THREE:

With fingers down and head forward, pick up the ball and then stand back up ready to deliver

### Catching



- You can get someone out by catching their hit or by stumping them at a post after catching the ball.
- Get into position under the ball, hands in a cup shape. Bring the ball closer to the body to ensure it is not dropped.

Breakdown

Rounders

Rules



best to hit the ball to outwit my

Why would I want bowls when

Do I have to run on of the posts when batting?



# Year 8 HT5: Ends of the Earth

# **Knowledge Organiser**

Keyword         Definition         The Tomb: On Friday night as it was the Sabbath and no work was to be done, the body was quickly wrapped in cloth and put in a tomb. The Romans put a large rock against the tomb and an armed guard was placed outsidenent dead and the rising of the repose of the against the tomb and an armed guard was placed outside at the Last Judgement acut of the dead and the rising of Christ against the tomb and an armed guard was placed outside at the Last Judgement acut of the dead and the rising of the repose of the soul of the dead and the rising of the repose of the soul of the dead and the rising of the repose of the soul of the dead and the rising of the repose of the last of the dead and the rising of the repose of the last of the dead and the rising of the repose of the last of the dead and the rising of the last last of the dead and the rising of the last last last last last last last last
Christian belief in the rising of Christ from the dead and the rising of Christ from the dead and the rising of the dead at the Last Judgement  A Catholic Mass for the repose of the soul of the dead  Place of cleansing for souls still preparing to go to heaven  Belief that God will judge humanity on their beliefs and actions and determine whether souls will go to Heaven or to Hell.  The eternal part of the human being which lives on after the death of the body  Ultimate aim for all Christians where they are united with God  Permanent ending of vital processes leading to the end of the life
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Ultimate aim for all Christians where they are united with God  Permanent ending of vital processes leading to the end of the life
Permanent ending of vital processes leading to the end of the life
are you weepings, whom to you seek; Supposing hill
to be the gardener, she said to him, "Sir, if you have car- ried him away, tell me where you have laid him, and I
Sabbath from Friday sunset until Saturday turned and said to him sunset



# Year 8: Islam

# Knowledge Organiser

## **Keywords:**

		•	9			•				•	•			•			•		
		,		·															
Definition	Holy Book of Islam	Holy place of Islam	Religion followed by Mus- lims	Platform in a mosque	Fasting from dawn until dusk	Founder of Islam	Muslim God	Place of worship	Washing before prayer	Ninth month of the Muslim year where strict fasting is observed	Symbol of Islam	Messenger of Allah	Area in the mosque that people pray towards	Prayer	Muslim festival	Follower of Islam	Language often associated with Islam	Muslim leader	Pilgrimage to Makkah
Keyword	Qur'an	Makkah	Islam	Minbar	Sawm	The prophet Muhammed	Allah	Mosque	Wudu	Ramadan	Crescent Moon	Angel Jibrl	Mihrad	Salah	Eid	Muslim	Arabic	Imam	. Hajj
						9				7		*		***		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ق م ططع ع ف ه في ططع ن م و ك		

# Key Concepts:

### (Pilgrimage) Hajj THE FIVE PILLARS OF ISLAM 100 Sawm (Fasting) Salah (Prayer) Shahadah (Faith) 1

the Qur'an tells how one night in 610 he was meditating in a cave on the mountain when he

The traditional story of

tation on Mount Hira.

was visited by the angel Ji-

breel who ordered him

to recite

### Mosque

- where, and they do not have to be in a special build-Muslims believe that they can worship Allah any
- week, but the most important time in the lunch-time Many Muslim men go to the mosque several times a Muslims feel that it is important to have a special place for worship. This place is called a Mosque. However, like members of most religions, many
  - Women are expected to pray too, either at the mosque or at home. When they go to the Mosque they are kept separate from the men. prayers on a Friday, the Muslim holy day.
- concentrate on Allah, without any distractions. It's a place to pray, study, and learn how to be a good human being from the Iman (holy man). Muslims believe this allows both men and women to
- They pray towards a niche in the wall that faces in the direction of Mecca.

### and Arabic calligraphy, rather than many Muslims that the depiction of cused on the depiction of patterns on figures, because it is feared by ties. Islamic art has generally fothereby a sin against God, forbidings, and not their physical qualithe human form is idolatry and den in the Qur'an.

Islamic art focuses on the spiritual

Muhammad was born in Mecca

in Saudi Arabia in 570.

**The Prophet Muhammad** 

He was a deeply spiritual man and often spent time in medi-

Islamic art and calligraphy

representation of objects and be-

## Muslims in the UK

- Many of the earliest Muślims who made their homes in Britain were traders from the Middle Britain for at least 200 years. There have been Muslims in East.
- of workers, and people came to Britain from other countries to industries in Britain were short After World War II, many help.
- were born here and have never Many Muslims living in Britain lived in the countries from which their family have come

- Ramadan is in the ninth month of the Islamic lunar calendar, as it was during this month that Muhammad received the first revelation of the Qu'ran.
- During this time Muslims fast for 30 days only eating and drinking before the sun rises and after the sun sets.

began to recite words which he came to believe were the

words of God

Once Jibreel mentioned the

name of Allah, Muhammad

The Muslim scripture is the Holy Qur'an. Muslims believe it is 'the word of God

The Qur'an

- from Allah, and every word and every letter is sacred. Muham-Muslims treat the Qur'an with great respect because they Muslim beliefs and practices mad (pbuh) memorized and believe that the Qur'an is are rooted in the Qur'an. wrote down the words.
- and said were remembered and Muhammad (pbuh) interpreted Therefore many of the things which Muhammad (pbuh) did the words in his daily life.

carefully recorded.

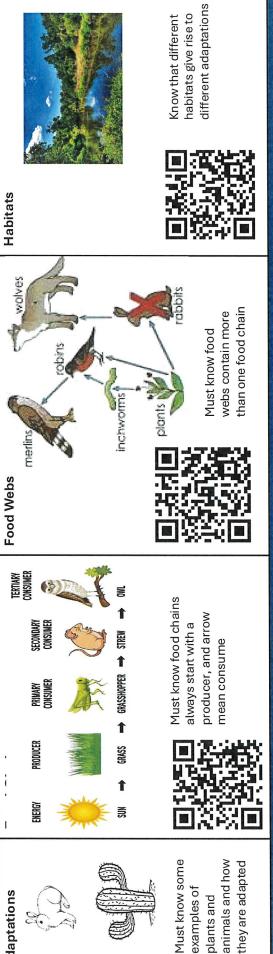
Quran and put what it teaches The stories and sayings help Muslims to understand the nto practice in their daily

### Ramadan

EYWORDS		ST.ANNE'S	UNIT OVERVIEW
DAPTATION – Characteristics that helps on rganism to survive in its environment	<b>EVOLUTION –</b> Development of a species over time	Ecosystems and Adaptations	Science Year 8 – Ecosystems Knowledge Understanding Equipped
IOACCULUMULATION – The build up of toxic hemical inside organisms in a food chain	EXTINCT – Where no more of a species are alive anywhere in the world	Seasystem Namehores	In this unit you will learn: • Feeding relationships • Food chains and food webs
OMPETITION – Happens when there are not nough resources to go round	HABITAT – The area in which an organism lives		Bioaccumulation Link to     Interdependency Kerboodl     Predator-prey relationships of the second sec
COSYSTEM – The name given to the interaction f animals, plants and their habitats in a location	NATURAL SELECTION – Where an organism with the characteristics most suited the environment, survives and reproduces, passing on their genes		• Adaptations • Competition

SUPPORT

competition and Adaptations



WHAT DO YOU THINK?

What do plants compete for?

What are the adaptations of the polar bear for its environment?

examples of

plants and

What is the primary consumer in the food chain above?

What is meant by the term interdependence?

What do animals compete for?

UNITOVE	Sci	Knowled	Charge Circuits a	Resistanc Compone Series an
ST.ANNE'S	Electricity and Magnetism			
	MAGNET – A material with a north and south pole and its own magnetic field	<b>ОНМ–</b> The unit of resistance. Symbol Ω	REPEL – To push away from each other like the two same poles of a magnet	RESISTANCE – How difficult is for current to flow through a circuit
EWVORDS	ONDUCTOR – A metal that conducts charge or nergy well like graphite or copper	URRENT – The flow of charge (electrons) around a ircuit	<b>LECTROMAGNET –</b> A temporary magnet produced sing a current	<b>LECTRON –</b> Negatively charged particle found in toms, that flow through circuit wires when it is on

## RVIEW

# ience Year 8

# edge Understanding Equipped

ectricity and Magnetism

unit you will learn about:

and current ce

nd parallel circuits nents

s and magnetic field

### Link to Kerboodle

### SUPPORT

Resistance

reduces the flow of current in a Resistance is anything that circuit

> charge to flow from one place to another. In a series circuit there is only one pathway for the current, in a

Moving charges

against each other, they secome electrically

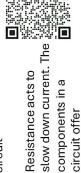
different materials When you rub two

parallel circuit there are multiple pathways

A circuit is a closed path which allows current or

Circuits

tatic electricity



resistance

Series Circuit

electrons gained by the

rod becomes positive from

sharged.

> volts



field is strongest.

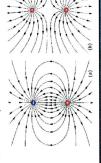
### We represent electric fields using diagrams (just like Magnets and Magnetic fields with magnetic fields): **Electric fields**

the field lines are more concentrated where the each field line has an arrow from positive to negative;

Field lines also show what happens to the electric fields during attraction or repulsion.



R



Parallel Circuit

How do you make a material electrically charged?

## What is the difference between a series and a parallel circuit?

What is meant by resistance and what causes it?

WHAT DO YOU THINK?

### Are all metals good conductors of electricity?

What is a magnetic field?

KEYWORDS		ST.ANNE
AMPLITUDE – The distance from the middle to the top or the bottom of the wave	PITCH – A property of a sound (high or low) which depends on the frequency of the sound wave	Microphones  Microphones work as sound waves hir flexible plate called a diaphragm which
FREQUENCY – The number of waves that pass a point in one second	TRANSVERSE WAVE- Where the direction of the wave is perpendicular (right angles) to the energy transfer	vibrates, and a coil moves backwards and forwards producing a signal
<b>LONGITUDINAL WAVE</b> – A wave where the direction of the wave is parallel to the energy transfer	<b>ULTRASOUND</b> – Sound with a frequency greater that 20000Hz (above range of human hearing)	sandam menenanan menenanan menenanan
<b>OSCILLATION</b> – Something that moves backwards and forwards, a vibration.	WAVELENGTH – The distance from the point on one wave to the same point on the next wave	

it a ich

**UNIT OVERVIEW** 

Knowledge Understanding Equipped In this unit you will learn **回**馬斯語語 Science Year 8 - Sound **Echoes and Ultrasound** Loudness and Pitch **Detecting Sound** Waves Sound 

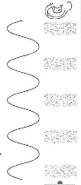


### SUPPORT

### How Sound is Produced oscillations (vibrations) Sound is produced by that move particles

Forwards forming a backwards and

closer and the oscillations pass to though and travels faster in solids than in gases as the particles are Sound needs a medium to travel the next particle faster wave.



Pitch

Pitch and Volume of Soun the amplitude of the wave. decreases Loudness L determined by the wave of a sound depends on frequency. The volume The pitch of a sound is ncreases

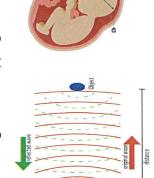
Ears, The Detectors of Sound. these hit the cochlea in which the eardrum which makes the The vibrating air particles hit small ear bones vibrate, and

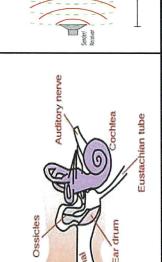




**Echoes and Ultrasound** 

An echo is a reflection of a sound wave and ultrasound is a sound neo-natal images and mapping. with a frequency over 20000Hz. Echoes and ultrasound can be used for measuring distances,





# WHAT DO YOU THINK?

Can you explain why we see lightening before we hear thunder?

travels faster in solid than particle level, why sound Can you explain on a in gases?

sound intensities and what is a safe sound intensity for human? Can you compare

Can you draw wave diagrams high pitch and a quiet sound showing loud sounds with a with a low pitch?

differences between an ear and a microphone? Can you compare the similarities and

Could you explain how ships at sea use SONAR to detect where the seabed is?



### **KEYWORDS**

Stitching-The process of joining 2 fabrics together

Eye-The hole in the needle

Analysing-Looking at existing products to see what works/could be improved

Weaving-Forming fabrics by interlacing threads

The industrial revolution-The transition from hand production to machine production

Sew on the spot/tie of-A technique to stop work unravelling

Seam-A line where 2 pieces of material are sewn together

### Year 8 Knowledge Organiser-Textiles.

Key word	Description	Image
Fibre	Fine hair like structure	9
Yarn	Fibres which are twisted together to create a yarn/ thread	
Fabric	Cloth made from fibres or yarns	

### **Unit Overview**

Create an Ugly Doll, adding additional features such as hair, clothes etc.

You will use the running stitch or blanket stitch to hand sew your work.

The puppet must be aimed at a particular target audience.



### WHAT DO YOU THINK?

Which stitch would work best for this project and why?

What would be the steps you would use to teach another person how to weave?

What can analysing existing products tell us?

SUPPORT	
Textiles and sustainability	SCAN ME
Textiles and the industrial revolution	SCAN ME
Machine weaving	