

#### The Royal Sutton School

### Year 8 Knowledge Organiser



#### **SUMMER TERM**

'Potential into Reality'





# TRSS Year 8 Knowledge Organisers Contents

#### **Year 8 Subjects**

**Art and Design** 

**Drama** 

**English** 

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Geography

History

**Information Technology** 

**Mathematics** 

**Modern Foreign Languages** 

Music

**Physical Education** 

**Religious Education** 

**Science** 

**Technology** 

#### Art and Design: Birds and Bugs

#### 1. Artist Inspiration – Jenny McCabe









#### Art media

Media in art terms refers to the painting and drawing materials used to make a work of art,

these may include:
Pencil and graphite
Collage
Pen, Fine Liner
Charcoal
Watercolour paints
Acrylic paints
Soft pastels, Oil pastels

Mixed media in art is when you combine any number of media together for creative effect

#### 2. Insects and bugs

https://www.rspb.org.uk/birds-and-wildlife/wildlife-guides/other-garden-wildlife/insects-and-other-invertebrates/

All insect species possess, (in the adult stage), three pairs of jointed legs and three main body parts - head, thorax and abdomen. Examples of insects include beetles, bugs, bees, butterflies, moths, flies, grasshoppers, crickets, wasps, dragonflies, ants, caddisflies, earwigs, and lacewings, but just to confuse things, there are also some tiny creatures with six legs that are not classed as insects.

#### **Entomology is the study of insects**

More than one million different species of insect have been described to date. They are the most abundant group of animals in the world and live in almost every habitat. Insects have lived on earth for more than 350 million years. Entomology is crucial to our understanding of human disease, agriculture, evolution, ecology and biodiversity

Entomologists are people who study insects, as a career, as amateurs or both.

#### 3. Videos to watch

https://www.youtube.com/watch? v=ZZcYUQhk4R0 Insects for Kids | Have fun learning all about different kinds of bugs! | Parts of an insect

https://www.youtube.com/watch? ኯኯኇቔፙጜ፞ቔ፞ዾፙucational Videos for Kids

#### **WOW WORDS**

- Entomology
- acarid
- bug
- insect
- nit
- parasite
- Tick
- metamorphosis
- organism
- invertebrate



Explain how you have used the formal elements.

Line: Straight, curved, continuous, diagonal, bold, light, parallel, flowing, dotted, delicate, thick, thin, short.

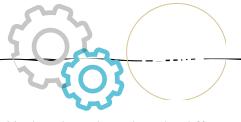
Tone: Contrast, tint, shade, graduated, highlight, harsh, subtle, varied, light, dark, varied, dramatic

Texture: bumpy, flat, rough, smooth, fine, course, uneven, shiny, jagged, scratched, pitted, furry, raised

Shape/Form: symmetrical, geometric, solid, proportional, curvaceous, elongated, angular, bulbous

Pattern: Criss-cross, repeating, ornate, linear, tessellated, spaced, simple, broken, even, striped

Colour: vibrant, subtle, pale, opaque, neutral, complementary, contrasting, harmonious, translucent



Mark making describes the different lines, dots, marks, patterns, and textures we create in an artwork. It can be loose and gestural or controlled and neat.

Invent an original idea Record your ideas by drawing, annotating, experimenting etc Continually review and refine and develop your ideas

Inspiration

Who has inspired you? (artist, image, object etc)

How have they inspired you? Explain. How have you links your work to the artist?

Techniques and processes
Have you used a variety of materials,
techniques and processes?
Have you refined and controlled your media?
What skills have you developed?



Have you explored scale and size? Create a layered drawing of a moth or butterfly using a range of scales in your drawing.

Explain the artists style/technique:

How does the artists work link to the theme? How have you used the work of an artist to inspire your own work?

Write a paragraph to explain the work of the artist and how you can/have used them as inspiration in your own work.

Experiment with a range of materials Dry materials; pencil, oil pastel, marker, pen, collage

Wet materials; ink, watercolour, acrylic paint Printing; mono printing, press printing 3D materials; clay, wire, paper etc

Create an artwork inspired by the artist in a media of your choice.

#### **BIRDS AND BUGS**

#### Drama: Script performance skills

#### 1. Audience Etiquette

ınıs term we will be renearsing a short scripted scene, then performing it in front of our peers. When watching a performance, it is very important that we follow some key rules:

- 1. We are silent, still and respectful
- 2. We are supportive and friendly
- 3. We do not discuss or comment on the performances without being asked

#### 4. Performance

what we are looking for in your performance

#### Tried my hardest to perform well with my group

Stayed in character

Faced the audience

Learned a role for performance

Showed an understanding for the style or genre

Kept my feet planted and didn't sway

Reacted to others in character

Changed my position on stage during a

#### 2. Rehearsal Time

Renearsal time: You will be given ready your performance for an audience. During rehearsal you will need to:

#### Stay with and helped my group

Work well with my group

Stay on task and followed instructions

Use simple rehearsal techniques with my group

Select appropriate rehearsal technique

Use rehearsal techniques to develop others

Use feedback from my teacher to improve

Use feedback from others in my group to improve

Learn from successes & challenges of other groups

Demonstrate how to effectively use rehearsals

#### 3. Rehearsal Strategies

There are many rehearsal strategies you can use to improve rehearsal time to learn, develop andyour drama performance. It depends on what performance element you feel needs the most focus.

- Still images, sculpting and mime can help Posture, gesture & facial expression
- Thought tracks, diary entries and role on the wall can help understanding of character
- Role swap, action narration or ranking can help an actor choose specific performance elements.

#### 5. Assessment

How am Lassesseu? You are assessed in renearsal, performanc€ and then following a reflection on your piece.

#### Used effective posture to show a character

Used effective gestures to show actions

Used facial expression to show emotions

Used effective movement showing character

Used effective voice on stage (Volume, pitch, pace, pause, tone)

Created a realistic or detailed character

Create detailed relationships & scenes on stage



- We start and finish each performance with a Still Image
- We stay in character throughout a performance, acting and reacting in character
- Posture shows our characters status and power
- Gesture shows our character's actions
- Facial expression can show emotion
- Movement and voice can show status, power, situation, relationship and emotions.
- Naturalism is where a performance, character and relationships look to be as close to reality as possible on stage

Key questions to ask yourself when preparing a performance:

- Where is my audience?
- Will they be able to see the key moments?
- What impact do we want to have on our audience?
- How will I change my posture to create my character?
- How will I change my gestures to show what I am doing?
- What type of facial expressions and voice might my character use?
- How might my character move?
- What is my characters objective? What do they want to achieve in this scene?
- What relationships should be shown on stage? Are there particular characters who I would have strong feelings about?
- What key moment in the performance could I look to make an impact on the audience?

You will need to rehearse to get this performance ready. This can take a number of different forms.

- You could run the lines together, in person or over the phone
- You could block the scene, working out who moves where, when and how
- You could mime the scene, focusing on your physical performance elements
- You can run the scene's moments of transition, focusing on creating slick, silent movements between them
- You can speed run through, making a game of getting as much correct as you can
- You can replace the language with nonsense words, which helps you focus on the tone, pitch, pace, rhythm and pace of the speech used
- You can swap roles with a partner, watching how they would perform differently and steal their good bits!

#### **Scripted Performance**

#### **English: ANIMAL FARM**

<u>Chapter 1:</u> The animals gather to listen to old Major. He gives them a vision of a life without man.

<u>Chapter 2:</u> The animals rebel and overthrow Jones. The commandments are written.

<u>Chapter 3:</u> The animals' first harvest is a success. The pigs keep the milk and apples to themselves.

**Chapter 4:** The Battle of the Cowshed: Jones attempts to reclaim the farm.

<u>Chapter 5:</u> Snowball and Napoleon debate the windmill. Napoleon uses dogs to chase Snowball from the farm. Napoleon makes himself leader.

<u>Chapter 6:</u> Work begins on the windmill. The pigs move into the farmhouse. Winds destroy the windmill.

<u>Chapter 7:</u> Work on the windmill starts again. Napoleon demands eggs from the hens. Napoleon slaughters animals at the show trials.

<u>Chapter 8:</u> Napoleon betrays Mr. Pilkington and sells timber to Mr. Frederick. Frederick pays with counterfeit money. Frederick attacks the farm. The animals suffer losses in the Battle of the Windmill. The windmill is destroyed.

<u>Chapter 9:</u> Boxer is sold to the knacker's yard. Squealer convinces the animals that he died in hospital.

<u>Chapter 10:</u> The pigs are leaders on the farm. They start walking on two legs and carrying whips. There is no difference between the pigs and the humans they sought to overthrow at the start of the novel.

#### 5. Social & Historical Context

- \* George Orwell is the pseudonym (false name) of Eric Arthur Blair. He wrote 'Animal Farm' which is an allegory for the Russian Revolution.
- \*The Bolsheviks were a Russian political party, committed to the communist ideas of Karl Marx.
- \*They believed that the working classes would free themselves from the control of the ruling classes.
- \* Lenin, who led the Bolshevik party, decided to try to overthrow Russia's government in 1917. He and his supporters succeeded.
- \* Lenin was supported by Trotsky, who created a loyal military force for the revolution.

#### 4. The Seven Commandments

hatever goes upon two legs is an enem

hatever goes upon four legs, or has ngs, is a friend.

- animal shall wear clothes.
- animal shall sleep in a bed.
- animal shall drink alcohol.
- animal shall kill any other animal.
- animals are equal.

#### 6. Themes

Corruption
Social Class
Naivety
Manipulation of
Language
Animal Exploitation
Military Ritual

Power & Control

#### 3. Key Words

Russian Revolution
Allegory
Tyrant
Rebellion
Harvest
Corrupt
Propaganda
Influe
Auth
Liter
Common Com

Cult of Personality Treacherous

Moral

Influence
Authority
Literal
Inspired
Commandment
Communism
Animalism

Failure

Privileges

Anthropomorphism

#### 1. Character List

#### The Pigs:

Old Major – a boar who fuels the rebellion (Rep. Karl Marx)

Napoleon – A fierce-looking boar (Rep. Joseph Stalin)

Snowball – Napoleon's rival (Rep. Leon Trotsky)

Squealer - Napoleon's second in command (Rep. Vyacheslav Molotov)

Minimus – A poet pig who writes for Napoleon

#### The Humans:

Mr Jones - The owner of Animal Farm (Rep. Tsar Nicholas II)

Mr Fredrick – The owner of Pinchfield

Mr Pilkington – The owner of Foxwood

Mr Whymper – A man hired by Napoleon

#### The Horses:

Boxer – A loval, kind and dedicated cart horse

Mollie – A self-centred vain mare

Clover - A gentle, caring female horse

#### Other Animals:

Benjamin – An old and wise donkey

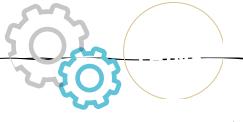
Moses – A tame raven who spreads stories of Sugarcandy Mountain (animal heaven)

Muriel – A white goat who helps Clover to read the Seven Commandments
Jessie and Bluebell – The dogs who give birth to the puppies that Napoleon
takes away to rear as his guards

The Puppies – Napoleon's guard dogs (Rep. Secret Police)



- 1. Give a definition of each key word.
- 2. List all the characters in the text.
- 3. List all the figurative language techniques that you can recall.
- 4. How are the characters related to each other?
- 5. Can you summarise the plot in 50 words?
- 6. Can you list the 10 most important plot points?
- 7. Can you put the main plot points into chronological order?
- 8. Which 5 words best describe the protagonist?
- 9. Which 5 words would you use to describe other key characters?
- 10What are the main themes in the text?
- 11. What are the social and historical links to the text?



- 1. Why is the context of a play/novel important?
- 2. How do the main themes link to the protagonist?
- 3. How do the main themes link to other characters in the text?
- 4. Is the author challenging, endorsing, or simply reflecting the dominant ideas and assumptions of the time and place in which they are writing?
- 5. Do you think it's right to challenge leaders? Write one paragraph stating why and one paragraph stating why not.
- 6. Imagine that you are a journalist for a newspaper in Willingdon and write an article about the goings on at 'Animal Farm'. How do you want the human beings who live near Animal Farm to feel when they read your story? Fear? Anger? Curiosity?

- 1. What is the impact of the opening of the text?
- 2. What is the impact of figurative language use within the text?
- 3. Why are the key themes important for the reader/audience to understand?
- 4. How does colonialism link to the text?
- 5. Why might a modern-day audience or contemporary reader criticise the author's intended message?
- 6. <u>Research:</u> Find out more about '1984' and why George Orwell wrote it.
- 7. Research: Each of the seven commandments originates from Old Major's speech. Which parts of old Major's speech are **not** made into commandments? Why do you think this is?

#### **Animal Farm**

#### **English: METAPHOR POETRY**

#### 1. Defining Metaphor

**Literal language:** if something is **literal** it is accurate or precise.

- •A literal description tells what actually happens.
- ·Something that is literal reports on events.
- •An example would be 'he is lazy'

Metaphor: if something is a metaphor it is not literal.

- •A metaphor does not report on what actually happens.
- •A metaphor compares one thing to another.
- •A **metaphor** tells us more about something by bringing ideas together.
- •An example would be 'he is a couch potato'.

#### 2. Explaining Metaphor

A **metaphor** has three parts:

The tenor: The thing you want to try and describe.

The vehicle: The imaginative idea you compare it with to help your audience understand it. This is the 'made up' bit.

The ground: The thing the tenor and the vehicle have in common.

Here is an example:

'Achilles fought like a lion' (both Achilles and the lion are strong)

Achilles is the tenor because he is the thing being described. The lion is the vehicle because it is the imaginative idea Achilles is compared to. The ground is that they are both strong. This is what they have in common.

3. Key Metaphors in the Poems		
'Fog' – Carl Sandburg, 1878 – 1967	Both 'the fog' and the 'little cat feet' are grey,	
'The fog comes on little cat feet'	delicate and move gently.	
'November Night' – Adelaide Crapsey, 1878 –	Both 'the leaves' and 'the steps of passing	
1914	ghosts' rustle softly.	
'like steps of passing ghosts,/ The leaves, frost		
-crisp'd, break from the trees and fall'		
'Dreams' – Langston Hughes, 1902 – 1967	Both a life without dreams and 'a broken-	
' if dreams die/ Life is a broken-winged	winged bird/ That cannot fly' are sad and	
bird/ That cannot fly'	wasteful.	
'Sally' – Phoebe Hesketh, 1909 – 2005	Both Sally and 'a dog-rose' are wild and not	
'She was a dog-rose kind of girl:/ Elusive,	traditionally beautiful.	
scattery as <b>petals</b> '		
'Frogs' – Norman MacCaig, 1910 – 1996	Both frogs and 'parachutists' leap into the air	
'In mid-leap they are/parachutists falling/in	and spread out when they fall. Both frogs	
a free fall'	and ballet dancers have powerful and	
' their ballet dancer's/ legs'	elegant legs.	
'Pigeons' – Richard Kell, 1927 –	Both pigeons and 'busybodies' walk around	
'small blue <b>busybodies</b> / Strutting like <b>fat</b>	looking like they think they're important. Both	
gentlemen'	pigeons and fat gentlemen have big bellies	
'their heads like tiny hammers'	but look quite dignified.	
'The Eagle' – Alfred, Lord Tennyson, 1809 –	Both the eagle falling and 'a thunderbolt' are	
1892	fast and dangerous.	
'And like a thunderbolt he falls'		
'The Tyger' – William Blake, 1757 – 1827	Both the tiger and fire are beautiful and	
'Tyger, tyger burning bright'	powerful, but also difficult to control.	
'A Case of Murder' – Vernon Scannell, 1922 –	Both the cat being slammed in a door frame	
2007	and a nut being broken make a cracking	
'The cat, half-through, was cracked like a nut'	sound. Both 'fear' and a 'wound' can be	
' the wound of fear gaped wide and raw'	painful and can get worse. Both fear and a	
' the huge black cat pads out' (the cat	'huge black cat' are haunting and can sneak	
turns from tenor into vehicle for the boy's fear)	up on you.	



- 1. Explain the difference between literal and metaphorical.
- 2. Give a definition of the tenor, vehicle and ground. Include an example.
- 3. What is the key metaphor in each poem?
- 4. Who is the narrator of each poem?
- 5. What is the tone of each poem?
- 6. Can you summarise each poem in 20 words?
- 7. Can you list the most important points in the narration of each poem?
- 8. Which 5 words would you use to describe the meaning of each poem?
- 9. What are the main themes in each poem?

- 1. Why is the context of a text important?
- 2. How do the main themes link to each text?
- 3. Is the author challenging, endorsing, or simply reflecting the dominant ideas and assumptions of the time and place in which they are writing?
- 4. Find two more poems by Grace Nichols. How do they compare to 'For Forest?' Are they about Guyana or England?
- 5. A legend is a story that has a parttruth in it. It often has different versions with slightly different details. Find an example of a monster legend with more than one version and compare the difference.

- 1. What is the impact of the opening of the text?
- 2. What is the impact of figurative language use within each text?
- 3. Why are the key themes important for the reader/audience to understand?
- 4. Research: Find out about idioms that are metaphors and their origin. Find idioms from other languages and explain where they came from.
- 5. **Research:** Emily Dickinson was a reclusive poet. Find out about her life and how her poems are titled.
- 6. Write a poem using an extended metaphor with the emotion of *anger* as the tenor.

#### **Metaphor Poetry**

#### Food: Diet and Health



Water plays an important role in the body, it is essential for life.

- Hydration as the body looses water from sweating, sleeping, breathing, urinating.
- Water is need for our eyes to prevent dry eye-this would causes our eyes to go red and sore.
- Keep our joints lubricated.
- Carries nutrients and oxygen to cells.
- Helps dissolve minerals and nutrients to make them accessible to your body.
- Lessens burden on the kidneys and liver by flush waste products.

Baguette-France
Bagels-New York
Italy-Panettone
Naan Bread-India
Pitta bread-Turkey
Pretzel-Germany
Crumpet-England
Muffin-England
Brioche Bread-France
Ciabatta Bread-Italy
Sourdough Bread-Egypt

#### 5. Bread Making

Basic ingredients to make bread:
Strong flour-gluten formation
Yeast-raising agent
Salt-to activate the dough
Sugar-flavouring
Oil-preserve, help to keep the bread
soft.
Water/milk-combine the ingredients
together
Other raising agents-baking powder.

#### 2. The Eatwell Guide Explained

	Section	Sources	Benefits
	Vitamins and minerals	Fruit & Vegetables	Builds your immune system, keeps your blood healthy and helps with your digestive system.
	Carbohydrates	Pasta, Potatoes, Rice, bread	Provides you with energy Keeps you fuller for longer
	Protein	Fish, Meat, bean, lentils, nuts, eggs	Needed for growth and repair
	Dairy & alternatives	Milk, yogurt, soya dairy	Provides calcium, needed for strong teeth and bones Helps the body to heal
	Fats	Olive oil, Margarine	Helps to protect vital organs, keep us insulated, builds healthy cells and membranes, move vitamins around the body.

#### 6 A third of your diet is based on carbohydrates

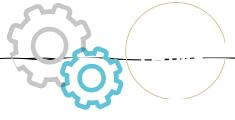
Self-raising flour.

Starchy foods are an important source of energy. After they are eaten, they are broken down into glucose, which is the body's main fuel, especially for our brain and muscles. Starchy foods provide important nutrients to the diet including B vitamins, iron, calcium and folate. Starchy foods can also provide fibre which is needed for good digestive health and is associated with a lower risk of heart disease, stroke, type 2 diabetes and bowel cancer.

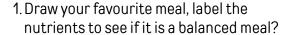
It is important when we are choosing starchy carbohydrates that we try to choose wholegrain or higher fibre varieties such as wholemeal bread, wholewheat pasta, brown rice and potatoes with skins. Fibre will help to keep you full longer, prevents constipation, good for our digestive system, can help to prevent some cancers and diverticulitis.



- 1. Why is the Eatwell Guide important?
- 2. What are the 5 nutrients linked to the Eatwell Guide?
- 3. What are the functions of these 5 nutrients?
- 4. What are the two classifications that nutrients come under?
- 5. Explain why water is important in our daily diet?
- 6. Explain why fibre is important in our daily diet?
- 7. Explain why we need fibre in our diet.
- 8. Why is kneading important when making bread?



- 1. Why do you think the Eatwell Guide was introduced by the government?
- 2. Explain the importance of following the Fatwell Guide?
- 3. Why do you think preparing food safely is important?
- 4. What are the health implications if you are obese?
- 5. Bread is a stable food, why is this?
- 6. Find the origin of different breads and recipe to compare with traditional bread making.



- 2. How can you improve your meal, think about the Eatwell Guide and what you can add to your drawing?
- 3. Key spelling, associated with the colours on the Eatwell Guide. Can you use in your own written explanations?

Carbohydrates

Protein

Fats

Vitamins

Minerals

- 4. Breakfast is the most important meal of the day, why is this and what foods should you avoid for breakfast?
- 5. Make A list of a variety of foods that are healthy for breakfast.

#### **Diet and Health**

#### Geography: Changing World

- Weather What is going on outside the window. Temperature, rain/snow and sunshine.
- Climate the average weather conditions of a location over a period of 30 years.
- **Extreme weather-** weather or extreme climate events includes unexpected, unusual, severe, or unseasonal weather.
- Climate change Climate change refers to long-term shifts in temperatures and weather patterns
- Adaption change to an environment in order to survive.
- **Sustainable -** fulfilling the needs of current generations without compromising the needs of future generations.

Extreme weather is when whether is significantly different from the usual weather pattern such as: heat waves, flooding and cold spells.

#### Australian wildfires 2022

Causes of wildfires: high temperatures, strong winds, lightening and flames e.g cigarette/BBQs.

When: July 2020 was the worst month of wildfires in Australian history. At one time there were 50 fires burning at the same time. Effects: 3 billions animals effected - with a large loss of habitats - huddles, each penguin take turns being animals died from dehydration (lack of water), 33 people were killed many of which were firefighters, 2000 homes were destroyed.

The future: fires in the future may become more frequent due to climate change. This is because there may be lower rainfall and higher temperatures.

#### <u>rınmar adaptı</u>oNS

**Seals –** have a layer fat known as blubber, have large eyes to hunt under ice/dark. Seals also have whiskers which are like little antennae that help them home in on their prey, even with their eyes and ears shut.

Penguins - have a layer of blubber as well as four different layers of feathers with the outer layer being water proof. They form large exposed to the cold on the outside, gradually moving towards the toasty middle. Fish -The blood of Antarctic icefish contains antifreeze proteins, which protect their cells against damage from ice crystals.

#### Climate change

Natural causes of climate change: changes in the sun, emissions from volcanoes, variations in Earth's orbit. Human causes of climate change: burning of fossil fuels, cutting down trees (deforestation) and farming/agriculture.

Effects - increase in global temperature, increase in sea temperature, increase in sea level and increase in severe weather events such as tropical storms/drought.

#### Management /mitigation -

International agreements e.g Kyoto Protocol, increased use of renewable energy, adapting buildings e.g tropical storm proof and planting trees.

#### **Antarctica**

Climate: Antarctica is the coldest continent on Earth. The average temperature throughout the year is about -57°C, with the temperature being -90°C during the winter season. Although temperatures can reach a maximum between -2°C and 8°C during the summer. Discovering Antartica: Captain Robert Falcon Scott, was a British Royal Navy officer and explorer who led two expeditions to the Antarctic regions: 1901-1904 and Terra Nova expedition of 1910–1913. Scott and his remaining three men died in March 1912 from starvation and hypothermia.

#### Threats to Antarctica

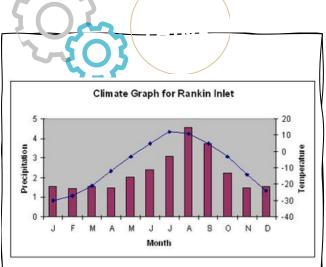
such as: overfishing, tourism and climate change. Tourism - thousands of tourists visit Antartica each year, travelling by cruise ships. Tourists may drop litter, disturb wildlife and possibly be carrying disease/invasive species.

Overfishing – mass fishing. This has impacted food chains within Antarctica and threatened some species with extinction.

Climate change – rising sea temperatures due to human activities has caused sea ice to melt. This has meant animals have lost their habitats.



- 1. How is climate different to weather?
  - 2. Give way cause of climate change?
  - 3. How can we reduce the impact of climate change?
  - 4. Give an example of an extreme weather event.
  - 5. What were the impacts of the Australian wildfires?
  - 6. Explain how animals have adapted to living in Antarctica.
  - 7. Why is Antarctica so valuable?
  - 8. If human activity continues in Antartica what will its future hold??



- 1. What does the bar chart represent?
- 2. What is the coldest month
- 3. Describe the pattern of temperature of Antarctica.
- 4. What is the average temperature of this continent.



- Why is Antarctica a unique environment?
- Why do people want to visit Antarctica?
- What are the problems tourists cause Antarctica?
- What is over -fishing and its impacts?
- How is Antarctica at risk from climate change?

#### **Changing World**

#### History: The Second World War

At the end of WW1, Germany was forced to sign the Treaty of Versailles. This was very unpopular in Germany and by promising to ignore the treaty, Hitler persuaded people to vote for him. Hitler wanted to get land back that was lost in WW1 and make Germany powerful again. Hitler started rearmament in Germany 1933 (building up the army). He then invaded (took over) the Rhineland, Austria, Sudetenland, Czechoslovakia and finally Poland. Britain followed a policy of appeasement in which they let Hitler take over the land in the hope of preventing a war. However, when Hitler took over Poland – War was declared.

#### 4. Key Words

**Rearmament:** When a country makes lots of weapons for their country.

**Appeasement:** When politicians try to avoid war by giving people a compromise.

**Propaganda:** Information or images that are released to the public to persuade people to think a certain way.

The **Blitz** was the Germans nightly bombing of British cities.

In British newspapers the **Blitz Spirit** was used as **propaganda** to show the determination of the British people during this difficult and dangerous situation to carry on as normal, It was to boast the **morale** on the Home front during the war.

However, historians have questioned the Blitz Spirit as could life really be carrying on as normal during these times.

#### 5. Dunkirk

The Germans used **Blitzkrieg** 'lightning war' as their tactic. This was successful in taking over countries quickly and driving the French and British troops back. On the 24th May 1940 the BEF and 10,000 French troops had retreated to the **beaches of Dunkirk**. On the 26th May, 340,000 soldiers had to be taken back to Britain in boats. 34,000 were left behind and became **prisoners**. Dunkirk was a defeat but British newspapers showed the **British heroes**.





#### 3. Key Events





1. How did Hitler persuade people to vote for him?

2. What does rearmament mean?

3. Name the countries that Hitler had invaded?

4. What does appeasement mean?

5. What does Blitzkrieg mean?

6. How many soldiers did the British leave behind at Dunkirk?

7. Why as Dunkirk a failure for the British?

8. What was Blitz Spirit?



1. What is happening in this picture?

2. How is the picture showing 'Blitz Spirit?'

3. Why would the government want this released in 1940?

Design an information guide on 'What happened during WW2' to be given to people in a museum. You need to explain:

- -Why WW2 started?
- -What happened during the battles of WW2?
- -Why German and Japan were defeated?
- -What was the impact of the Atomic bomb?



#### The Second World War

#### Information Technology: Programming

#### 1. Data Types

Data Type	This indicates how the data will be stored. The most common data types are integer, string, and float/real.	
String	A collection of letters, numbers or characters. (eg, Hello, WR10 1XA)	
Integer	A whole number. (eg. 1, 189)	
Float/Real	Float/Real A decimal number, not a whole number. (eg. 3.14, -26.9)	
Boolean	1 of 2 values. (eg. True, False, Yes, No)	

#### 2. Code Examples

2. Code Examples		
print('hello')	Print values on the screen(in this case 'hello)	
Input(")	Inputs a value into the computer	
x=input("))	Inputs a value and stores it into the variable x	
x=int(input(") )	Inputs a value into x, but converts it into a string first	
print(str(x))	Prints the variable x but converts it to a string first	
if name="Fred"	Decides whether the variable 'name' has a value which is equal to 'Fred'	
else	The other option in the conditions for an if statement are not met (e.g. name='Bob' when it should be Fred	
elif name=="Tim"	elif (short for else if) id for when the first condition is not met, but you want to specify another option	

#### Selection A choice or

A choice or decision in an algorithm.

Gives different paths that could be followed.

#### Sequence

Instructions placed one after

another.



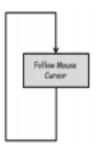
NAD my

#### Iteration

A loop in an algorithm.

3: Sequence, Selection, Iteration

The process
of repeating
instructions,

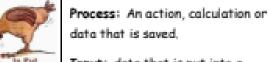


#### 4: Keywords



Algorithm: A step by step of instructions to carry out a task,

Flowchart: A visual representation of an algorithm, using key symbols.



Input: data that is put into a computer.

Output: Data that is produced by a computer.



**Gurt Part**, 5

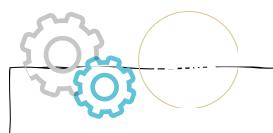
Variable: Allows us to save data that changes.

#### 5.Relational Operators

==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to



- 1. What is an Algorithm?
- 2. What shape do you use for a process?
- 3. What shape is used for input/output?
- 4. What shape is used to make a decision?
- 5. What is a sequence



- 1. Explain what a selection is
- 2. What is iteration?
- 3. Explain what an input is used for
- 4. Give an example of an input
- 5. Explain what an output is used for
- 6. Give an example of an output

- 1. Explain the purpose of designing algorithms as flowcharts?
- 2. Detail what 'if' is used for
- 3. Explain what 'else' is used for
- 4. Is the process described by 'if and else' a sequence, selection or iteration? Explain why

#### **Programming**

#### thematics

# - DEVELOPING GEOMETRY... Ongles in parallel lines and polygons YEAR 8 -

# @whisto\_maths

# What do I need to be able

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

- Identify corresponding angles
- Find the sum of interior angles in polygons
- Find the sum of exterior angles in polygons
  - Find interior angles in regular polygons

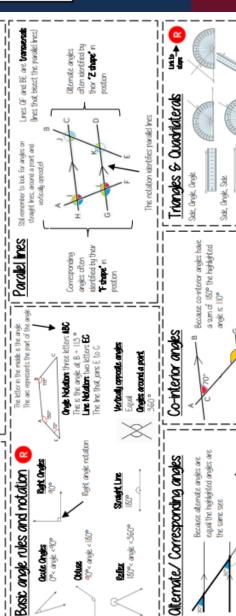
### **Sequences**

## Paralet Straight Ines that never meet

**sosceles**. Two equal size lines and equal size angles (in a triangle or trapeziun) Ongo: The figure formed by two straight lines meeting (measured in degrees) Transvessal O line that cuts across two or more other (normally parallel) lines

Sum: Oddition (total of all the interior angles added together) Polygon: 0, 2D shape made with straight lines

**Regular polygan** 0.1 the sides have equal length; all the interior angles have equal size



# Os angles on a line add up to 180° co-riterior angles can also be calculated from applying alternate/ corresponding rites first.



are equal the highlighted angles are the same size

0

Oil sides equal size Opposite angles are equal Rhombus

Equal lengths on top soles Equal lengths on bottom soles

interior angle + Exterior angle - straight ine - 180° Exterior angle - 180 - 185 - 15°

Exterior Ongle

Exterior angles all add up to 360°

Sum of exterior angles

Number of sides - 360° + exterior angle Number of sides - 360 + 5 - 24 sides

formed from

the straight-line extension of the side of the shape (rumber of sides - 2) x 150 One pair of equal angles

### nterior angle = <u>(8-2) x 180</u> = <u>6 x 180</u> = **135** Exterior angle = 360 ÷ 8 = 45° Missing angles in regular polygons

Sum of the interior angles  $-(5-2) \times 180$ 

Exterior angles in regular polygons - 360° + rumber of sides

Interior angles in regular polygons - frumber of sides -2/x 150rumber of sides

### Sum of interior angles Interfor Orges

s enclosed by the

Each triangle has 180°

three triangles

3m of the interior angles - 3 x 180

This is an **irregular** polygon — the sides and angles are different sizes

Remember this is all of the interior angles added together

# YEAR 8

# DEVELOPING GEOMETRY... **Orea of trapezia and Circles**

### **@whisto** maths

# What do I need to be able

#### to do?

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

- Recall area of basic 20 shapes

  - Find the area of a trapezium

Find the area of a circle

- Find the area of compound shapes
- Find the perimeter of compound shapes

### heumoras

### Congrent: The same

Orea: Space inside a 2D object

**Perimeter:** Length around the outside of a 2D object

**P**( $\pi$ ): The ratio of a circle's circumference to its diameter.

Perpendicular: Oit on angle of 90° to a given surface

**infitly** ( $\infty$ ): G number without a given ending (too great to count to the end of the number) — never ends **Formula:** O mathematical relationship/ rule given in symbols E.g. b x h = area of rectangle/ square Sector: O part of the circle enclosed by two radii and an arc.

# Orea — rectangles, triangles, parallelograms

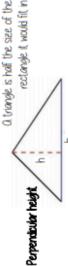








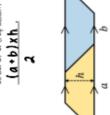
### X x Base x Perpendicular height riange



rectangle it would fit in

# Orea of a trapezium







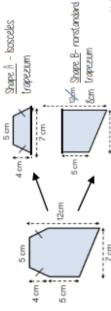
- New length (a + b) x height
- Divide by 2 to find area of

### Compound shapes

To find the area compound shapes often need splitting into more managedale shapes first Identify the shapes and missing sides etc. first

Shape A - bosoeles

rapezium



Shape A + Shape B - total area

## - 24 + 45.5 - 69.5cm (5 + 8) x 7

# Orea of a circle (Non-Calculator)

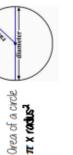
terms of  $\pi$  or if  $\pi \approx 3$  (provides Read the question — leave in an estimate for answers) Diameter - 8cm : Radus - 4cm

8 cm



**Ractus** - 4cm

Grounference



Quarter= 4π cm<sup>2</sup> Circle Orea = 16**11** cm²

one quarter of the

Find the area of

 $\pi \times radus^2$ 

- T x 42 91 x 11 -

# Compound shapes including circles

Compound shapes are not always area questions

For Perimeter you will need to use the circumterence π x diameter

Spotting diameters and radi



Don't need to halve this because there are 2 ends which make the whole Orc lengths -  $\pi$  x 64

Orea of a circle

SHIFT X10\*

Orea of a circle (Calculator)

16π cm²

7 x radus<sup>2</sup>

How to get 🗷 symbol on the

This dimension is also the diameter of the semi

000

Onc lengths + Straight lengths - total perimeter

- 64 **π** + 150 + 150  $= (300 + 64 \pi) \text{ m}$ 

OR - 5011 m

decimal places. This will give you a decimal solution that will go on forever

It is important to round your answer suitably — to significant figures or

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

# ine symmetry and reflection DEVELOPING GEOMETRY.. YEAR 8

### **Ewhisto** maths

# What do I need to be able

#### to do?

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

- Recognise Ine symmetry
- Reflect in a horizontal line
- Reflect in a vertical line
- Reflect in a diagonal line

### **Seywords**

Marce has a line that passes through the center of a shape with a mirror image on either side of the line Line of symmetry, 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°

**Horizontat** a straight line from left to right (parallel to the x axis)

**Vertica:** a straight ine from top to bottom (parallel to the y axis)

### Lines of symmetry

Mrror line (line of reflection)



Shapes can have more than



Paralebgram



# a vertical line

ines of symmetry O circle has an infinite amount of

#### Reflection on an axis and Reflection in the line x=3 Reflect horizontally/vertically(1) doubles the area of Note: a reflection the original shape Reflection in a horizontal line

Reflection in the line y--2

## Reflect Diagonally (1,

Reflect horizontally/vertically(2)

to be the same

Oll points need

from the line of

efection

distance away

regular pentagon has 5 lines

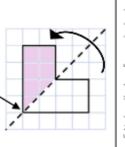
of symmetry)

one line of symmetry... This regular polygon (a

f you tum your image it becomes a vertical/horizontal reflection (also good to check

Tum your image

your answer this way

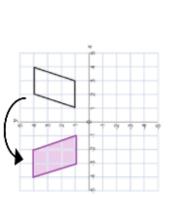


Fold along the line of symmetry to check the direction of the reflection

Reflection in the line y axis — this is also a

reflection in the line x=0

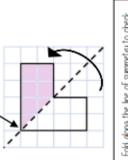




Lives paralel to the x and y axis

Lines parallel to the x-axis are y " Lines parallel to the y-axis are x =

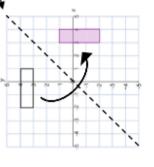
Points on the mirror line don't change position



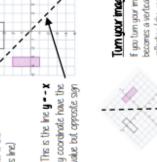


from the mirror has can help you to plot diagonal reflections Perpendicular lines to and

This is the line y - x (every y coordinate is the same as the x coordinate along this line.



The x and y coordinate have the some value but opposite sign



### Turn your image

becomes a vertical/horizonta reflection (also good to check f you turn your mage it your answer this way

# YEAR 8

# REASONING WITH DATA.... The data handling cycle

### **Ewhisto** maths

# What do I need to be able

#### to <del>o</del>o?

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

- Set up a statistical enquiry
- Design and criticise questionnaires
- Draw and interpret multiple bar charts Draw and interpret line graphs
- Represent and interpret grouped quantitative
- Find and interpret the range
  - Compare distributions

Set up a statistical enquiry

### Keywords

# **Hypothesis:** an idea or question you want to test

Sampling the group of things you want to use to check your hypothesis **Primary Data:** data you colect yourself

Secondary Data: data you source from elsewhere e.g. the internet/rewspapers/bcal statistics Discrete Data numerical data that can only take set values

**Continuos Dala**: numerical data that has an infinite number of values (often seen with height, distance, time) Spreat the distance/how spread out/variation of data

**Overage:** a measure of central tendency — or the typical value of all the data together

Proportion: rumerical relationship that compares two things

# Design and criticise a questionnaire

**The Question** - be clear with the question - don't be too leading/judgemental

Discrete or

primary or

colection

hypothesis

gata

Sorsof

Design a

Write a

e.g. How much pocket money do you get a week?

**Responses** — do you want, closed or open responses? — do any options overlap? — Have you an option for all responses? □ £001-£2 □ £201-£4 □ more than £4 ← option G ... Zero

Total number of

reatures of a data collection sheet

that group

Frequency

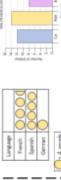
Data Tite

categories . Grouped or

NOTE: For responses about continuous data include inequalities < x ≤

# Pictograms, bar and line charts

ine Chart



 Clearly labelled ares
 Scale for the axes Visually able to identify mode Need to remember a key

 Gaps between the lines Clearly labelled axes Scale for the aves Gaps between the bars Title for the bor chart

### Compares multiple groups of data Multiple Bar chart

Pey/ Colour code for separate

- Clearly labelled axes Scale for overs
  - Comparable data bars
  - drawn next to each

## categories of data Gop between different

## Draw and interpret line graphs Remember a circle has 3

Commonly used to show changing over time

There were 60 people asked in this survey

Draw and interpret Pie Charts

The points are the recorded information

and the lines join the points

Line graphs do not need to start from 0

More than one piece of data can be piotted on

the same graph to

compare data

- Os 60 goes into 360 6 times (Total frequency) Multiple method 32 out of 60 people had a dog
- Each frequency can be multiplied by 6 to find the degrees (proportion of 360)
- Represents quantitative, discrete data This is a frequency diagram Jse a protractor to draw Grouped quantitative data 32 x 360 - 192°

This fraction of the 360 degrees

represents dogs

### Find and interpret the range he range is a measure of spread

There are no gaps between

Difference between the biggest and smallest values

It is possible to make estimates from the line

eg temperature at 930am is 5°C

O smaler range means there is less variation the results — it is more consistent data O range of 0 means all the data is the same

data is useful if

Grouping the there is a large spread of data to

The use of inequalities shows that this will be

a frequency dagram

than or equal to 25 and less than

begin with

Stop This the smalest range — this indicates it has a more consistent flow of

Shop I bwest value Stop Highest value

Range of austomers = 25 - 22 = 3

# REASONING WITH DATA... Measures of location YEAR 8

### **Ewhisto** maths

# What do I need to be able

#### to do?

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

- Understand and use mean, median and
- Choose the most appropriate average
  - dentify outlers
- Compare distributions using averages and

### **Seywords**

**Quecage:** a measure of central tendercy — or the typical value of all the data together **Spread** the distance/ how spread out/ variation of data Totat all the data added together

**Represent**: something that show's the value of another Frequency: the number of times the data values occur

Consistent: a set of data that is similar and doesn't change very much **Outler:** a value that stands apart from the data set

### Mean, Median, Mode

O measure of average to find the central tendency. a typical value that represents the data

### 24, 8 4, 11, 8

Find the sum of the data (add the values) 55 Divide the overall total by how many pieces of data upp have

Mean -

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

### 24, 8 4, 11, 8

4, 8, 8, 11,24 4, 8, 8, 11, 24 Find the value in the middle Put the data in order

NOTE: If there is no snake middle value find the mean of the two numbers left Median - 8

### The Mode (The modal value)

This is the number OR the item that occurs the most (It does not have to be rumerical

### 24, 8, 4, 11, 8,

This can still be easier if it the data is ordered first

# Choosing the appropriate average

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 £300

he Median - £250 The Mode - £240

Which average best represents the weekly wage?

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

Put the data back into context

The Mean - £307

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

### dentify outliers

Outliers one values that stand well apart from the rest of the data

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

Comparing distributions

|| || ||

П

a statement about spread and consistency

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

45, 32, 37, 41, 46, 35 60, 90, 41, 23, 14, 23

hey have less impact on the median and the mode Outliers can have a big impact on range and mean

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

identified try to give it

where an outler is

Sometimes it is best to not use an outler in calculations

Mean: 396 (1dp), Median: 38 Mode: no mode, Range: e.g on scatter graphs dentified graphically Outliers can also be

Mean 418 (1dp), Median 32, Mode: 23, Range: 76

have a big impact on

James has two

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

#### Modern Languages: La Musique

#### 1. Complex opinion phrases

Ce que j'aime, c'est (What I like is)

Ce que j'adore, c'est

(What I love is)

Ce que je déteste, c'est

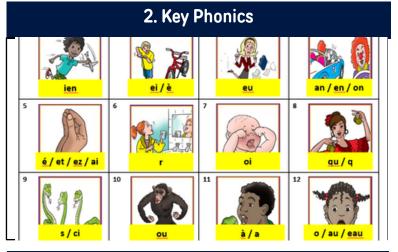
(What I hate is)

Ce que je n'aime pas, c'est

(What I don't like is)

Ce que je préfère, c'est

(What I prefer is



#### 3. Transactional language

Tu veux aller à la fête de la musique?

(Do you want to go to the Toulouse Music Festival?)

Combien coûte un billet?

(How much does a ticket cost?)

Quand est-ce que le festival commence?

(When does the festival start?)

#### 4. Key Adjectives

relaxant. créatif. (relaxing.) (creative.) lent. animé. (slow.) (lively.) rapide. fort. (fast.) (loud.) entraînant. démodé. (catchy.) (old-fashioned.)

ringard.

puéril. (cheesy.) (childish.)

#### 5. Pronoun phrases

son style de musique (their style of music) son rhythme (their rhythm) sa voix (his/her voice)

ses paroles (their lyrics) me relaxe(nt). relax me m'intéresse(nt). interest me. me fascine(nt). fascinate me.

#### 6. Verb+ infinitive

On pourrait danser (dance) (We could) chanter (sing) On peut

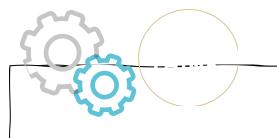
manger et boire (You can) (eat and drink)

acheter des souvenirs Je voudrais/ (buy some souvenirs)

i'aimerais voir mon groupe préféré (I would like to) see my favourite group



- 1. J'aime la musique rock. Improve the sentence using a complex opinion
- 2. J'adore la musique danse. Improve the sentence using a complex opinion
- 3. Je n'aime pas le reggaeton. Imprive the sentence using a complex opinion
- 4. Je déteste la musique salsa. Improve the setence using a complex opinion
- 5. Je préfère la musique pop. Improve the sentence using a complex opinion



- 1. Improve sentence 1 using a justified opinion with puisque
- 2. Improve sentence 2 using a justified opinion with car
- 3. Improve sentence 3 with a justified opinion with parce que
- 4. Improve sentence 4 with a justified opinion with étant donné que
- 5. Improve sentence 5 with a justified opinion with a connective of your choice

1. Describe the picture using the language you have learnt



- 2, Write a short dialogue about going to a music festival include asking when & cost of tickets
- 3. Describe your visit to the music festival



4. Research a French music festival to share in class

#### La Musique

#### **Music:** Guitar

1. Guitar Keywords

#### HEAD TUNING PEGS NECK FINGERBOARD FRET BODY SOUNDHOLE STRING



# Horizontal lines = string 1, thinnest Numbers = frets O = open string

2. TAB Notation

#### 4. How to carry the guitar

- Carry the guitar by the neck and vertically/pointing down.
- To play, hold it sideways with the head pointing to the left.
- Support the neck with your left hand and play the strings with your right hand.

#### 5. TAB and Traditional notation example



#### 3. Elements of Music

KEYWORDS	DEFINITIONS
PITCH	How high or low the note
	is
TEMPO	Speed
DYNAMICS	Volume
RHYTHM	Different length notes in a
	pattern
MELODY	Different pitches in a
	pattern
INSTRUMENTS	Brass, woodwind, strings,
	percussion

#### 6. How to play the guitar

- If it's not an open fret, place your finger just before the metal line of the fret.
- Push down firmly on the string.
- Play the string/s firmly with your right thumb/finger.
- Play the string/s over the soundhole for a fuller sound.



- 1. What does TAB mean?
- 2. What do the **numbers** man on TAB?
- 3. What do the **lines** mean in TAB?
- 4. What is the correct way to **hold** your guitar?
- 5. Does it matter if you are left or right handed?



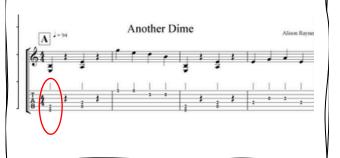
 Can you accurately identify and explain the role of the following on a guitar:

- HEAD
- TUNING PEGS
- NECK
- FINGERBOARD
- FRET
- BODY
- SOUNDHOLE
- STRING



Below is an example of guitar TAB. Can you identify the following:

- What strings (there are more than one) would you need to play the first notes?
- What **frets** would you need to play these first notes?



Guitar

#### PE: Softball

Softball is played by two teams of 9 players each who try to score more runs than their opponent by rounding the bases and crossing home plate as many times as possible.

A softball field consists of a pitching rubber, 4 bases (3 bases plus home plate), an infield, and an outfield

There is a batter's box on both sides of home plate. The batter may choose which side of the plate to hit from, but both of their feet must be inside the box.

The team that scores the most runs is the winner. A run is scored when a base runner rounds all of the bases by stepping on each one in order from 1st, 2nd, 3rd, and crosses home plate.

#### **Key Words**

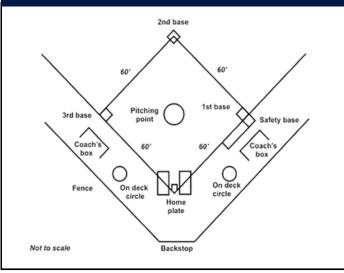
**Ball** – as called by the umpire, a pitch that does not enter the strike zone in flight and is not struck at by the batter

**Pitcher** – the player who throws the ball to the batter

**Strike** – as called by the umpire, a pitch that enters the strike zone in flight and is not struck at by the batter; a pitch that a batter swings at and misses; a foul ball



#### The Pitch



#### **Positions**

- •Pitcher on the pitching rubber Catcher behind home plate
- ·1st Baseman
- ·2nd Baseman
- •3rd Baseman
- ·Shortstop between 2nd and 3rd base
- ·Leftfielder outfield between 2nd and 3rd base
- ·Centerfielder outfield behind 2nd base
- •Right fielder outfield between 1st and 2nd base

#### Youtube Links

Batting:

<u>www.youtube.com/watch?v=jyK9ukm-23E</u> Bowling:

www.youtube.com/watch?v=RlpCl6FZmjl

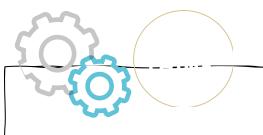
Rules:

www.youtube.com/watch?v=YLU6W6AYQto

Long barrier when fielding: <a href="https://www.youtube.com/watch?v=1hxVw1YCJn0">www.youtube.com/watch?v=1hxVw1YCJn0</a>



- 1.Identify the stages of a warm up before playing a game of softball
- 2.How many people on a softball team?
- 3. How many points do you score if you hit the ball and get to second base?
- 4. How many innings are there in a game of softball?
- 5.Identify 2 fielding techniques which can be used in softball
- 6.Identify the most important components of fitness you need in a softball game.



- 1.Describe one stage of a warm up
- 2.Describe 2 roles on a softball team
- 3.Describe how scoring works if you miss the ball as a batter
- 4. Describe what happens if you drop the bat when you are running in softball
- 5.Describe one fielding technique and when you would use it
- 6.Describe one component of fitness and how it is needed in softball

- 1.Describe one stage of a warm up
- 2.Describe 2 roles on a softball team
- 3.Describe how scoring works if you miss the ball as a batter
- 4.Describe what happens if you drop the bat when you are running in softball
- 5.Describe one fielding technique and when you would use it
- 6.Describe one component of fitness and how it is needed in softball

#### Softball

#### PE: Rounders

- •A rounders game consists of 2 innings; whilst one team bats, the other one bowls.
- •A team consists of a maximum of 15 players and a minimum of 6 players
  - ·Players must run on a good ball

#### When running

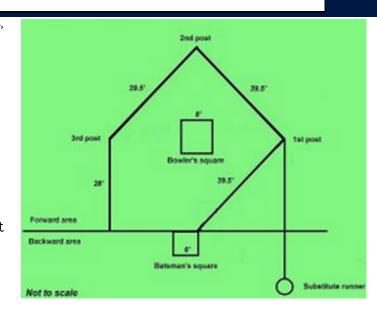
- •Batters must always keep in contact with the post, either with their hand of bat.
  - •Two batters cannot be at the same post
- •You cannot run back to a post once you have committed to run to the next post
- •If you hit the ball backwards, the batter must stay at 1st post until it reaches the outward area.

#### No balls

- ·It is a no ball when:
- •The ball is above the head/below the knee
  - ·The ball bounces
  - •The ball is wide
- $\cdot$ The bowlers foot is outside of the square when they release the ball
  - •The bowler does not use an underarm action •You can not be caught out on a no ball

#### **Key terms**

Underarm Overarm Batting Bowling Agility Reaction Time Long barrier



#### **Scoring System**

#### Hitting a good ball:

Run to 2nd or 3rd base = 1/2 rounder Run to 4th base = 1 rounder

#### Missing a good ball:

Run to 4th base = 1/2 rounder

#### Running on a no ball

Run to 2nd or 3rd base = 1/2 rounder Run to 4th base = 1 rounder

#### **Key Skills**

Underarm bowling – Hold ball in dominant hand. Step forward with non throwing foot. Release ball between knee and shoulder Batting – Stand sideways on with bat up. Swing through with hips and follow through with bat.

Catching – Get in position under the ball. Cup hands. Bring ball into body.

Throwing – high elbow, aim with none throwing arm. Follow through in direction of where you want the ball to go.

Fielding – Using different techniques to get the ball back to the bowler or to a post







- 1.Identify the stages of a warm up before playing a game of Rounders
- 2. How many people on a Rounders team?
- 3. How many points do you score if you hit the ball and get to second post?
- 4. How many innings are there in a game of Rounders?
- 5.Identify 2 fielding techniques which can be used in rounders
- 6.Identify the most important components of fitness you need in a rounders game.



- 2.Describe 2 roles on a rounders team
- 3.Describe how scoring works if you miss the ball as a batter
- 4.Describe what happens if you drop the bat when you are running in rounders
- 5.Describe one fielding technique and when you would use it.
- 6.Describe one component of fitness and how it is needed in rounder

- 1.Describe one stage of a warm
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- 3.Describe how scoring works if you miss the ball as a batter
- 4.Describe what happens if you drop the bat when you are running in rounders
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- 6.Describe one component of fitness and how it is needed in rounder

#### Rounders

#### PE: Cricket

#### **Key Rules**

- The winning team in cricket is the side that scores the most runs.
- A cricket team consists of 11 players and they take it in turns to bat and bowl.
- The bowler must bowl the ball overarm at the stumps.
- A wide ball will be called if the batsman, playing a normal stroke, is unable to reach the ball.
- A no ball will be called if the heel of the bowler's front foot lands in front of the popping crease or a full toss is bowled – waist height for a seam bowler and shoulder height for a spin bowler.
- A batter is declared out if the bowler knocks off the bails of the stumps with a delivery.
- A batter is declared out if a fielder or wicketkeeper catches the ball directly off the bat and before it hits the ground.
- A batter is declared out if the umpire believes that the bowler's ball would have hit the stumps if the batter had not obstructed the ball with their pads. This is known as leg before wicket (LBW).
- A batter is declared run-out when they are going for a run but do not make the batting crease before fielding team knocks off the cricket stumps.
- A batter is declared out if the wicketkeeper stumps them.

#### **Fielding Positions**



#### **Key Equipment**



#### **Key Terms**

Batting Forward Defence

Bowling Wide Ball

Fielding Long Barrier

Coordination Speed

#### Youtube Links

Batting:

https://www.youtube.com/watch?

v=CdIYCoqUVEQ

Bowling:

https://www.youtube.com/watch?

v=VHTzqkFuljs

Rules:

https://www.youtube.com/watch?

v=AqtpNkMvj5Y

Fielding:

https://www.youtube.com/watch?

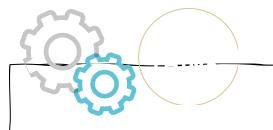
v=xRf3 UFtAaE

#### Local Clubs:

Walmley Cricket Club, Sutton Coldfield Cricket Club, Aston Unity Cricket Club



- 1. Identify 2 types of batting shot
- 2. Identify 2 types of bowling
- 3. Identify 2 fielding techniques
- 4. Give 2 rules in cricket
- 5. Give 3 fielding positions
- 6. What are the 3 calls when batting in cricket?
- 7. What is the name of the line which runs round the outside of a cricket pitch?
- 8. State 3 pieces of equipment you need in cricket
- 9. State 3 important components of fitness for cricket
- 10State 3 stages of a warm up



- 1. Can you pick a shot and describe where you would be aiming to hit the ball?
- 2. Can you describe the difference between the two main types of bowling in cricket?
- 3. Can you perform the hand signals for the following calls: Wide ball, No ball, 4 runs and 6 runs?
- 4. Can you describe one thing you might do to put more pressure on the batter as the fielding side?
- 5. Can you describe 3 rules in cricket?
- 6. When may you use the call 'waiting' in cricket?
- 7. Can you describe how you score a boundary when batting in cricket?
- 8. Can you pick 2 pieces of batting equipment and explain the role of them?
- 9. Can you define the most important components of fitness needed for cricket?
- 10Can you describe 3 stages of a warm up?

- 1. Can you explain the difference between an attacking shot and a defensive shot in cricket?
- 2. Can you explain 2 teaching points when bowling in cricket?
- 3. Can you explain 2 teaching points for a fielding technique?
- 4. Can you explain when you may use 2 different types of fielding techniques in a game?
- 5. Can you explain why it is important not to give away extras in cricket?
- 6. Can you discuss why you use 'yes' and not 'go' when calling for a run in cricket?
- 7. Can you explain the role of the wicket keeper?
- 8. Can you explain the difference between the different lines on the wicket?
- 9. Can you pick 3 important components of fitness and explain why they are important in cricket?
- 10Can you design a warm up relevant for a cricket match?

#### Cricket

#### PE: Athletics

#### **Sprinting**

#### <u>Start</u>



#### **During**

Hold your torso straight and vertical
Hold head still, facing forward
Bend elbows at 90 degrees
Pump your arms so hands travel from hips to
lips, keep shoulders steady
Opposite arm to leg

With each stride lift front knee high

#### Rules

A false start is called when the feet of a runner leave the starting blocks before the starter's gun

#### Wider reading

Tokyo 2021

Olympics: <a href="https://tokyo2020.org/en/">https://www.olympic.org/tokyo-2020</a>

Components of

fitness: https://www.bbc.co.uk/bitesize/ quides/zxd4wxs/revision/2

Methods of training: <a href="https://www.bbc.co.uk/bitesize/quides/22b9q6f/revision/2">https://www.bbc.co.uk/bitesize/quides/22b9q6f/revision/2</a>

#### **Long Distance**

#### Start:

Standing

#### **During**

Hold your torso straight and vertical
Bend elbows at 90 degrees
Pump your arms so hands travel from hips to lips, keep
shoulders steady
Opposite arm to leg

#### Pace is very important during a long-distance race Rules

During an 800m race, athletes run the first curve in separate lanes, then break after 100m.

#### **Components of fitness**

Speed Cardiovascular endurance Power Reaction time Coordination

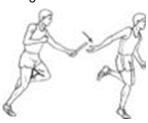


#### Relay 4x100m

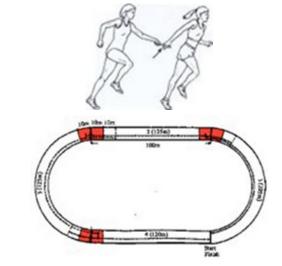
!! Same technique as sprinting !!

#### Baton change over:

UP sweep exchange



DOWN sweep exchange



The exchange must happen in the red areas marked below

#### PE: Athletics-Throws

1.

- •Rest the shot on your **palm** and push into your neck
- ·Ensure your chin, knee and toe are in line
- •Push shot away from the neck
- ·Keep elbow high

#### **Rules:**

•The shot must be released above the height of the shoulder with one hand

#### Wider reading/ video

Tokyo 2021

Olympics: <a href="https://tokyo2020.org/en/https://www.olympic.org/tokyo-2020">https://tokyo2020.org/en/https://www.olympic.org/tokyo-2020</a>

Components of

fitness: https://www.bbc.co.uk/bitesize/

guides/zxd4wxs/revision/2

Methods of

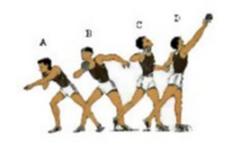
training: https://www.bbc.co.uk/bitesize/

guides/z2b9q6f/revision/2

2.

•Your throwing hand (including the thumb) is on top of the discus with your fingers evenly spread.

- •The top knuckle of your four fingers (not the thumb) should touch the rim, with your fingertips over the sides
- •Ensure your chin, knee and toe are in line
- ·Shift your weight forward as you pivot your hips.
- •The discus should leave your hand smoothly off the index finger with your hand at about shoulder height.
- •Follow through, rotating to your left to remain in the ring and avoid fouling. (if right-handed)



#### **Components of fitness**

Muscular Strength Flexibility Power Balance 3.



- Straighten your arm keeping javelin close to your head and parallel to your arm
- •Ensure your chin, knee and toe are in line
- •Transfer your weight from front to back leg when releasing the javelin



#### **Grip:**

•Place javelin in the crease of your hand

#### **Exit Routes:**

Tamworth Athletics Club, Marlborough Way, Tamworth, B77 2HA. Royal Sutton Coldfield Athletics Club, Wyndley Lane, B73 6ES

#### Year 8

#### PE: Athletics-Jumps

#### Long jump

#### Run up

•athlete accelerates onto the take off board, aiming to be close to maximum speed at take off

#### Take off

- •Take off on one leg as close to the line as possible
- •Maintain this take off position for as long as possible
- •As the athlete comes into land, bring both legs in front of body.

#### **Rules**

•No part of the athletes foot should cross the front edge of the foul line



#### Wider reading/video

Tokvo 2021

Olympics: https://tokyo2020.org/en/https://www.olympic.org/tokyo-2020

Components of fitness: <a href="https://www.bbc.co.uk/bitesize/quides/zxd4wxs/revision/2">https://www.bbc.co.uk/bitesize/quides/zxd4wxs/revision/2</a>

Methods of training: https://www.bbc.co.uk/bitesize/

#### **Triple Jump**

#### Run up

- ·Same as long jump run up
- 1.

#### Phase 1: HOP

•Take off and land on the same foot

#### Phase 2: STEP

•Take a LARGE step onto the other foot

#### Phase 3: JUMP

·Same as long jump 'take off'

#### Rules

No part of the athletes foot should cross the front edge of the foul line



#### **Components of fitness**

Muscular Strength Flexibility Power Balance

#### High Jump

#### Run up

- •Run on a curve leaning away from the bar
- ·Use approximately 6-12 steps on approach

#### Take off (Fosbury flop)

- •On take off, point foot towards the far corner of the landing area
- •Drive knees upwards on the leg closest to the bar
- •Rotate hips so you are facing away from the har
- ·Reach arm up and over
- •Arch back and bring legs together
- ·Lift feet over and land on back, tucking chin to chest.

#### Rules

- ·Take off on one foot only
- ·Do not touch the bar



#### Exit Routes:

Tamworth Athletics Club, Marlborough Way, Tamworth, B77 2HA. Royal Sutton Coldfield Athletics Club, Wyndley Lane, B73 6ES



- 1. How many people are in a relay team?
- Which throwing event is a "sling", which is "push and which is "pull" throw?
- 3. What are the safety points in throwing events?
- 4. What happens if you step over the board in the long jump?
- 5. How far is 100m, 200m, 800m and 1500m on an athletics track?
- 6. What are the four health related components of fitness?



- 1. How do you perform a sprint start?
- 2. How do you measure in throwing events?
- 3. How is a track race started? Talk through the process of sprint and longer distance races.
- 4. How will you help a partner who struggles to get the javelin point first?
- 5. What makes a shot-put throw a "no throw"?
- 6. How can you improve your own personal fitness level?

- 1. Which part of your long jump gets measured?
- 2. What are the changeover zones in relay?
- 3. What 3 key teaching points would you tell someone about sprinting?
- 4. How would you describe the scissor kick?
- 5. Choose a throw; how do you perform it?
- 6. Choose 2 health related components and say which athletics events they are shown in most.

#### **Athletics**

#### Religious Education: Sikhism

#### **Guru Nanak**

**Guru Nanak** founded the religion of Sikhism. He vanished from the river he was washing in for 3 days and when he returned, he said he had been with God. He told Sikhs how to behave and told them that everyone, no matter what their religion is, are all equal.

#### The Story of Guru Gobind

At the time of Guru Gobind Sikhs were being treated very badly and even killed for their beliefs. Guru Gobind called for volunteers who were willing to die for their beliefs. He pretended to kill them, and this showed the crowd just how dedicated they needed to be. The five men he pretended to execute would be the first members of the **Khalsa**, the baptised Sikh community, also known as the 'community of the pure'.

#### The 5K's

The 5K's are 5 articles of faith worn by some of the Sikh community. They show identity to the religion, and all represent key ideas

- Kesh (uncut hair) Strength.
- Kara (a steel bracelet) Only one God.
- Kanga (a wooden comb) stay clean.
- Kachera (cotton underwear) pure.
- Kirpan (steel sword) readiness to protect the weak.

#### What do Sikhs believe?

- There is only one God;
- God cannot be described as either male nor female:
- God is both sargun and nirgun (seen and unseen)
- God created the world and created people to know the difference between right and wrong.
- All people are equal

#### **Guru Granth Sahib**

The Sikh holy book and their current Guru.
The Guru Granth Sahib is always treated with respect; Sikhs bow to it and never turn their back on it. When it is carried, it is raised above people's heads. When the Guru Granth Sahib is being used it rests on a throne (Takht) and when it is not being used it is covered with Special cloths (Romallas).

#### **Wow Words**

Guru – a religious leader or teacher Guru Nanak – the man who started Gurdwara – Sikh place of worship Guru Granth Sahib – The Sikh holy book, Sikhs think of it as a living Guru

Langar – a special meal shared after services in the Gurdwara Guru Gobind – The final human Guru, he created the Khalsa Khalsa – The community of Sikhs who committed to their beliefs



- 1. Who is the founder of Sikhism?
- 2. How many Gods do Sikhs believe in?
- 3. What is the name given to initiated Sikhs?
- 4. What are the 5 K's that all Sikhs must wear?
- 5. In Sikhism, what is the most widely used name for God
- 6. What do Sikhs (and visitors to the Gurdwara) remove before they enter the place of worship?
- 7. How do Sikhs show their respect for the Guru Granth Sahab?
- 8. What is a Sikh place of worship called?



This picture shows the Sikh community helping to feed the homeless.

- 1. What does this tell us about the Sikh beliefs about mankind?
- 2. How has Guru Nanak influenced this community?

Write an account of visiting a Sikh Gurdwara. Use the key questions below to organise your write up.

- What did you see?
- What sounds or noises did you hear?
- What did you smell?
- How did you have to dress and behave?
- What did you eat?
- How were you welcomed and treated?

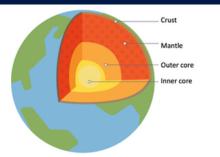
<u>Use this website to support your account.</u>

<u>Visiting A Gurdwara – Shri Guru Nanak</u>

<u>Gurdwara Swindon (sgng.org.uk)</u>

#### **Sikhism**

#### Science: Earth and the atmosphere



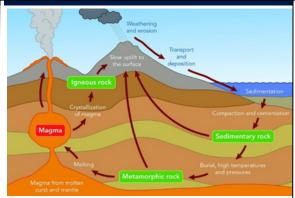
**Crust:** Thin and mostly made of rock

Mantle: Has properties of a solid but can flow slowly (200-4000°C)

**Duter Core:** Made of molten iron and nickel (4000–

6000°C)

nner Core: Made of solid iron and nickel (7000°C)



Atmosphere – mixture of gases around the Earth

**Combustion** – burning of fuel with oxygen to produce heat and light

**Erosion** – when rock is broken down by water or wind **Fossil Fuels** – coal, natural gas and oil formed from the remains

of ancient organisms

**Global Warming** – increase in the Earth's temperature due to increased amounts of greenhouse gases

Greenhouse Gases-carbon dioxide, methane, nitrous oxide

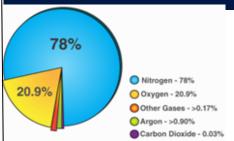
Lava-magma that has erupted from a volcano

Magma - molten rock inside the Earth

Mineral – a pure chemical compound found naturally in rocks

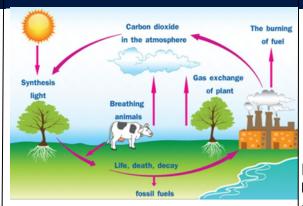
**Sediment** – matter than sinks to the bottom of a liquid

#### **Composition of Atmosphere**

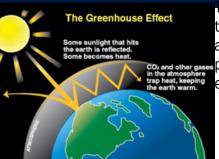


The atmosphere is the thin layer of gases that surround the planet. It protects us from the dangerous radiation from the Sun, traps important oxygen, and keeps the temperature of the Earth stable

#### Carbon cycle



#### Climate Change

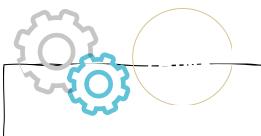


traps heat in our atmosphere and keeps the planet warm, but allows excess heat to escape.

If there is too much carbon dioxide and methane (from **burning fossil fuels, driving cars, cattle farming** etc) in the atmosphere, too much heat is trapped and the planet warms up – this is global warming



- What are the three layers of the Earth?
- Name the three groups that rocks are classified into?
- What is combustion?
- Identify 3 greenhouse gases.
- What is a mineral?
- What does the presence of tiny crystals in a piece of igneous rock tell you about it?
- What is magma?
- What is the word equation for photosynthesis?
- What is the atmosphere?
- Describe the composition of the Earth's atmosphere



- Describe what a mineral is?
- Describe the composition of different materials?
- Describe/explain the properties of sedimentary, igneous and metamorphic rock
- Explain how sedimentary, metamorphic and igneous rocks are formed.
- Describe what the rock cycle is
- Describe simply the processes involved in the rock cycle and how this process takes place over millions of years.
- Explain using detailed Science how sedimentary,
   igneous and metamorphic rock interconvert
- Explain the processes that drives the rock cycle
- Describe the different between complete and incomplete combustion
- Explain the effects of combustion on the atmosphere.

- Explain the structure of the Earth and how scientists have learnt about its structure through shockwaves from Earthquakes
- Compare the differences between the processes, weathering, transport, erosion, deposition, compaction and cementation and link to formation of rocks
- Explain the processes that add and remove carbon from the atmosphere.
- Identify the % composition of gases in the atmosphere
- Explain what global warming is.
- Interpret data to explain the link between increase carbon dioxide levels and temperature
- Explain some human activities that increase carbon dioxide levels in the environment.
- Make links between greenhouse gases and global warming
- Interpret data to explain links between human activity and global warming
- Construct arguments for or against human activity and global warming

#### Earth and the Atmosphere

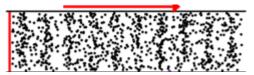
#### Science: Light

Reflection and refraction

Transverse waves are where energy moves away from a source, but the particles move perpendicular (up and down) to the direction of the wave

Direction

Longitudinal waves are where energy moves away from the source, but the particles move parallel (left to right) to the direction of the wave. (e.g. sound)



#### Transmitting light

Opaque

Absorbs all light – not see through

Translucent

Transmits some light – partially see through

Transparent

Transmits all light – see through

When light hits a mirror, it reflects from the surface of the mirror.

The angle at which the light is reflected depends on the angle it hits the mirror, and a ray diagram can be used to show the path of the light rays

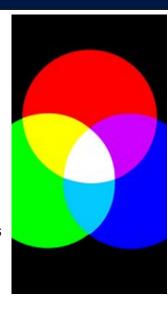
#### Refraction

Light waves change speed when they pass across the boundary between two substances with a different density, such as air and glass. This causes them to change direction, an effect called refraction.

#### Colour

Our eyes only detect three colours: red, green and blue. By combining these, however, we can perceive many different colours.

By mixing red light and green light, for example, we can see yellow. If all three are mixed together we see white light. Objects absorb and reflect light differently. A lemon reflects yellow light, all the other colours are absorbed and so are not seen by our eyes.



#### Key voacabulary

**Amplitude** – The maximum extent of a vibration or oscillation, and maximum isplacement of matter in waves.

**Frequency** – The rate at which waves pass a certain point per second.

**Wavelength** – The distance between identical points on a wave.

**Transverse** – A wave in which the medium vibrates perpendicular to the direction of the wave.

Longitudinal – A wave in which the medium vibrates parallel to the direction of the wave. Radiation – The emission of energy as electromagnetic waves.

#### <u>Seeing</u>

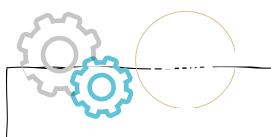
The eye contains a natural lens to focus light from an object to produce an image.

This image is detected by photosensitive cells in the back of the eye, in a part called the retina.

The photo-sensitive cells in the retina produce electrical impulses when they absorb light, and these impulses are passed along the optic nerve to the brain, which interprets them as vision.



- 1. Give the definition of translucent.
- 2. Give the definition of opaque.
- 3. State one difference between a transverse wave and a longitudinal wave
- 4. Give an example of a longitudinal wave.
- 5. What is the speed of light?
- 6. What 7 colours make up white light.?
- 7. Describe what happens when light hits a plane mirror
- 8. Describe what transparent objects are?



- 1. Draw a transverse wave and label
- 2. Describe a difference between translucent and transparent object.
- 3. If sound takes 1 second to travel 340m, how long will it take to travel 1km?
- 4. How can light travel through space but sound cannot?
- 5. Describe the function of the iris.
- 6. What colour does red light and blue light make when mixed together?
- 7. Describe how our eyes can see objects.
- 8. Explain how a camera works

- 1. Give the similarities and the differences between transverse and longitudinal waves.
- 2...What colour does red light and cyan light make when mixed together?
- 3. Explain why people might wear light coloured clothes in the summer.
- 4. Explain the difference between reflection and refraction
- 5. Explain how we see objects?
- 6. Explain how the brain processes images
- 7. Explain why we see the grass as green.
- 8. Compare the difference between how the eye works and a camera

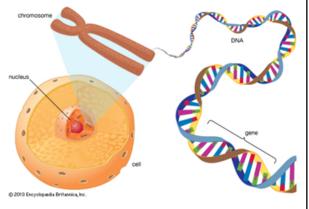


#### Science: Genetics

#### Inheritance

Our **DNA** contains information about us and is contained in our **chromosomes**.

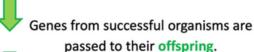
Humans have 46 chromosomes in most cells. We inherit 23 from mum and 23 from dad.



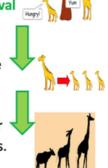
#### **Evolution by Natural Selection**

Organisms show variation (caused by differences in genes)

Organisms with the characteristics best suited to their environment survive and reproduce. Those who don't die - survival of the fittest.



This is repeated many times and over time can lead to change in the species. This is evolution by natural selection.



#### **Extinction**

Organisms can go extinct due to:

- Changes in the environment
- An outbreak of a new disease
- New predators
- Destruction of habitat
- Increased competition for resources.

#### **Gene Banks**

Gene banks store genetic samples from different species. They can be used for research, or to produce new individuals. There are several different types of gene banks including seed banks, tissue banks, cryobanks and pollen banks.

#### **WOW Words**

**Adaptation** – A feature which makes an organism more likely to survive.

**Competition** – Organisms can compete against members of the same or other species for resources.

**Variation** – Differences between organisms of the same and different species.

Inheritance – when genes are passed from one generation to the next.

Gene – a Section of DNA

**DNA-** A molecule found in the nucleus of a cell that contains genetic information.

**Chromosome**- Thread like structure containing tightly coiled DNA. It contains many genes.

**Gamete** – a sex cell

Evolution – The theory that the plant and animal species living today descended from species that lived in the past.

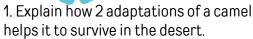
**Natural selection** – The process which brings about evolution.

**Species**- a group of living organisms consisting of similar individuals that can breed to produce fertile offspring.

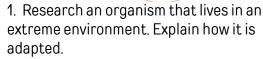
**Extinction**– When there are no more living members of a species



- 1. State 2 adaptations of a camel
- 2. State 3 things animals compete for.
- 3. State 3 things plants compete for.
- 4. Define the term continuous variation.
- 5. Define the term discontinuous variation.
- 6. Define the term species.
- 7. Where do you inherit your genes from?
- 8. Define the term extinct.
- 9. What is an adaptation?
- 10. Define biodiversity.



- 2. State where DNA is found in each cell.
- 3. Describe the organisation of genetic material in cells.
- 4. What is different ab
- 5. Describe the process of natural selection. out the 23<sup>rd</sup> pair of chromosomes?
- 6. State two organisms which are extinct.
- 7. Describe how endangered species can be preserved.
- 8. State if tongue rolling is an example of continuous or discontinuous variation.
- 9. Explain using examples the difference between inherited and environmental variation.
- 10. Explain why when a person who has tattoos and blue hair has a baby, they don't inherit their parent's tattoos or hair colour.



- 2. Explain the significance of identical twins in twin studies.
- 3. Explain how natural selection brings about evolution. Use an example.
- 4. Explain how humans are having an impact on the rate of extinction of organisms across the world.
- 5. Explain how selective breeding has resulted in breeds of dogs with high levels of health problems.
- 6. Explain the importance of 'peer review'.
- 7. Explain why gametes only have 23 chromosomes and not 46 like other cells.
- 8. Suggest why height and weight are affect by both inherited and environmental variation.
- 9. Suggest why mutations in the genetic code can lead to abnormalities.
- 10. State and explain 3 behavioural adaptations of organisms that help them survive in extreme conditions.

#### **Genetics**

#### Technology: Graphic Design

#### 1. Graphic Design

The role of a graphic designer is to design the aesthetics (the printed or **drawn** elements) of a product by combining images, words, and ideas to convey information to an audience.

Designing a product involves analysing existing products, studying what is successful and what could be **improved** to **develop** a product which is marketable (able to be sold).

**Designers collaboration**: Designers work together to combine expertise and specialisms.

#### 2. ACCESS FM

Aesthetics- the look and visual appeal of the product e.g. colour, line, texture, pattern, theme.

Cost- which materials have been chosen in order to meet the clients budget?

**Client**- who is the product aimed at, who is the target market?

**Environment-** where will the product be used? does it need to be waterproof/weatherproof?

Size- What are the dimensions of the product? What sizes do you need to consider e.g. hand size?

**Safety**- How has the designer made it safe to use?

Function- What is the intended purpose of the product?

Materials - What materials is it made out of? Why were those materials chosen?

Manufacture - How was the product made? Using hand tools? CAD/CAM?

#### 3. WOW Words

ACCESS FM = the acronym used in DT

to analyse and evaluate products to ensure we have looked at all the aspects of a product.

**GSM** = grams per square meter, this is the units used to measure paper in.

**Source/origin =** where a material comes from.

**Scored =** An indented scratch to allow paper or card to fold with ease.

**Crimped =** Compressing a material into small folds.

**Embossed =** To stamp a pattern onto a surface so that it stands out.

**Perforate =** Pressing small holes into a material. **Prototype =** The first working model of a design used for testing, development and evaluation.

#### 4. Paper

The source of paper and board is trees. There are lots of different kinds of paper - each designed for a particular use. Paper is measured in gsm (grams per square meter).

Grid paper can have square or isometric pattern printed on it.



Tracing paper is semitransparent and is used to copy images.



#### 5. Board

Paper becomes classified as a **board** when it is above 200gsm. Board is often used in packaging because of its low cost and high strength-to-weight ratio.

Corrugated cardboard is made up of fluted inner core (crimped) sandwiched between two outer



layers which can be printed on.

Folding boxboard is a board which has a good printing surface, can be scored, bent and creased easily.

#### 6. Equipment

Set square - For drawing lines at 30/60/90 degrees.

Craft knife - For cutting and scoring paper and card.

Steel rule - For cutting straight lines and measuring









ACCESS FM is used to help up to analyse products. (Aesthetics, cost, client, environment, size, safety, function, materials, manufacture).

#### How to describe a game:

What is it made from?

Who is it for?

When would it be used?

Where is it used?

How much does it cost?

How has it been made?

What sort, type or category of product is it?

What other products are like this?

#### Comprehensive – Critical analysis of a game:

Do I like it? If so, why/why not?

Is it fun to play?

Are the graphics attractive to the target market?

Is it the right size, shape, pattern, colour?

Is it strong and sturdy?

Is it safe to use?

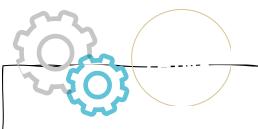
Is it value for money?

What does it cost in relation to the income of the potential users?

#### Demonstrate how the product is used:

Explain why this game was developed.

Explain the purpose of different features of the game.



#### How to interpret games that are new:

What is my reaction to this game?

Who might the user or owner be?

Why might they want to buy it?

Is it designed well, if so, why/why not?

Is it easy to play/ understand?

What materials and processes were used?

Does it look and feel good?

How well is it made?

Is it well finished(laminated, embossed)?

Is the cost appropriate?

How much will this product change people's lives?

How is it promoted and packaged?

What happens at the end of its product

life? (recycled, landfill, can it be repaired/ reused)

#### Analysis – breaking down into parts, forms:

What is the function of this game?

Who is it for (target market)?

What assumptions have been made about the people who might use it?

Whose needs or wants were possibly considered during designing and making this product?

What are the motives of the people who designed and made it?

What make this product distinct from others of its type?

#### Synthesis – combining elements into a pattern:

Would I want to own or use it?

What would this reveal about me?

What influenced the appearance and the way it works?

How might the design have been developed?

How would you test this to see ..?

Could you propose an alternative solution to the

game or part of the game to improve it?

How else could you make the game?

List important features about the game?

How is this product different from one from

five years ago, or another culture?

How will this product be different in ten vears' time?

#### Evaluation – according to criteria and state:

What effect will this product have on people's lives and relationships?

What is wrong with the product?

Why is this product not a popular as other similar games?

What difficulties do users find with this product?
What difficulties would manufactures have making

this product?

Why have these materials been chosen?

#### **Board Game Design**