



# Knowledge Organiser Booklet

Year 9 Autumn Term

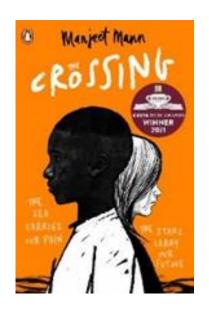
## Ways to use your knowledge organiser

	Look, Cover, Write, Check	Self Quizzing	Mind Maps	Paired Retrieval	Definitions to Key Words
ep 1	Look at and study a specific area of your knowledge organizer.	Use your knowledge organizer to create a mini quiz. Write down questions using your knowledge organizer.	Create a mind map with information from your knowledge organiser.	Like self quizzing, use your knowledge organizer to create a quiz.	Write down the key words and definitions.
Step					
Step 2	Cover or flip the knowledge organizer over and write down everything you remember.	Cover or flip the knowledge organizer over and answer the questions and remember to use full sentences and key words/vocabulary.	Add pictures to represent different facts, knowledge. Try to categorise different areas in different colours.	Ask a family member to ask you the questions and tell you which ones you get right and which ones you get wrong.	Try not to use your knowledge organiser to help you.
3	Check what you have written down. Correct any mistakes in a different coloured pen and add anything you missed.  Repeat.	Check your answers. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.	Try to make connections that link information together.	Following the quiz, summarise which areas you got wrong and need to revise further.	Use a different coloured pen to check you work and correct any mistakes you may have made.
Step	****		356		

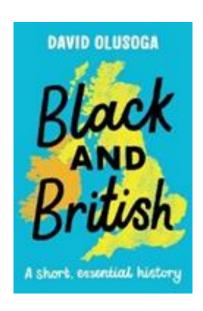
# **Lionheart Literary Canon: Curating a Lifelong Love of Literature**

Recommended books to have read by the end of Year 9

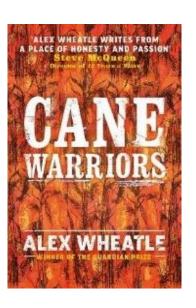




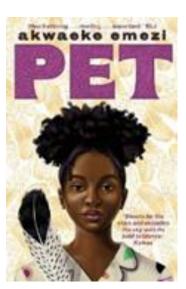
The Crossing Manjeet Mann



Black and British David Olusoga



**Cane Warriors Alex Wheatle** 



Pet Akwaeke Emezi

All books can be purchased online, or loaned from our library



## **Aspects of Narrative – Djinn Patrol**



The study of narratology is the study of the choices a writer has made about how they tell their stories. Aspects of Narrative translates as 'ways of telling a story.' Significance is is about what is signified, what meanings arise in terms of values and ideas and how these meanings are produced by what writers do and the methods they use.

Narrative Voice

First person – introspective, extradiegetic or intradiegetic?

Third person – focalised, authorial or narrator?

Tense – retrospective (past tense) or present tense immediate?

Mulitperspectivity – a story told from many points of view

Reliable or unreliable (bias)?

Omniscient (all knowing) or inadequate (doesn't know the whole story)?

Who? Known/unknown? A character?

Genre

Romantic or pastoral – ideal images of the natural world

 $romance-associated\ with\ romantic\ love$ 

Gothic - creation of darkness and fear

Realism – portrays the real world with all its flaws

Comedy – intention to make people laugh

Tragedy – solemn and mournful tone

Crime - deals with crimes, their detection, criminals, and their motives.

Thriller – readers feel heightened feelings of suspense, excitement, surprise, anticipation and anxiety.

Structure

Chronological or fragmented?
Complete or with narrative gaps?
Openings and endings? Climatic
moments? Anti-climaxes?
Narrative frame? Media-res opening?
Flashbacks or flash-forwards?

Resolution or narrative-hook? Deus ex Machina? (ends tied up or ends on a Q)

Order of events within the plot Change of narrators or use of dialogue or just description? Setting

Wider setting – (country, city community)

Place – precisely where? House, room, seat?

Time – specified?, unstated, present day, past, present?

Historically/geographically accurate or entirely fictional?

Setting change - from where to where? Use of specific languages or placespecific references

Use of place names

What not to do with narrative method and useful sentence frames

When discussing narrative method it is important to avoid feature spotting. Instead evaluate the impact of the writers choice.

Useful sentence frames

The introduction of the new setting at this point in the narrative allows the writer to show that the character has evolved because...

The gap in the narrative allows the writer to create a sense of confusion and means the reader is unsure who is the victim and who the villain because...

The shift into using typically Romantic generic conventions allows the writer to comment on the importance of the natural world when...

By employing a focalised narrator the writer allows the reader access to the character's unspoken thoughts meaning pity is created when...

How to access "significance" in your analysis

You could consider an extract's significance in terms of the plot – what has happened earlier to instigate these events? What happens later as a result of these events?

You could consider what messages are being endorsed? Are any characters or ideas being given preferential treatment or being side-lined?

You could reference any cultural, moral or social contexts that are being endorsed by the book.

You could consider authorial intent or approval – is the writer advocating any specific ideologies?

You could consider whether a text fits into a traditional genre or whether it borrow from a few and what the effect of that is on the meaning

## English

## **Year 9 Aspects of Narrative – Djinn Patrol**

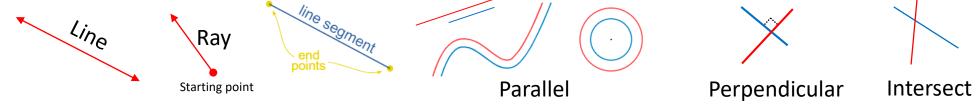
superstitious	inequality	authentic	prestigious
persistent	intimidation	depiction	poignant
disadvantaged	concealment	ascertained	instinctive
urban	Incorporeal	unnerving	malevolent
influential	naive	insinuate	perpetuates
exploitation	exclusion	impulsive	accountability
basti	possession	inglorious	foreboding
Dickensian	minority	inevitable	culpability
dislocated	intuition	powerlessness	pessimistic

## Maths - Year 9

## **Block 13 – Graphs and Proportion**

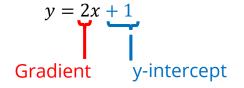


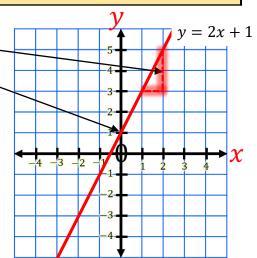
Line	Is straight entity that has no thickness and extends in both directions without end (infinitely).	
Line segment	A line with two ends	
Ray	A part of a line with a start point but no end point (it goes to infinity)	
Parallel  Lines, curves, surfaces that are always the same distance apart and will never meet.  The lines do not need to be the same length.		
Perpendicular A line that is at right angles to another line.		
Intersect	To cut a line, curve or surface with another.	



Graph	A diagram showing the relationship between (two) variables	
Midpoint	The midpoint is halfway between the two end points of a line segment	

Gradient	The steepness of the line. Change in $y$ for every one increase in $x$	
Y - Intercept	Where the graph crosses the Y-axis	





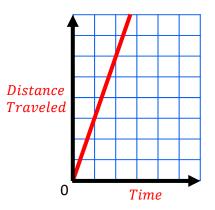
## Maths - Year 9

## **Block 13 – Graphs and Proportion**

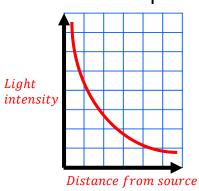


<b>Direct Proportion</b> The relationship between two variables where the scale factor between them is constant.	
Inverse Proportion The relationship between two variables where the product of the variables is constant.	

### **Direct Proportion**



## **Inverse Proportion**



 $Distance\ (miles) = 3 \times Time\ (hours)$ 



 $Light\ intensity = 3 \div Distance\ from\ source$ 



Standard Index Form	A form where a number is expressed as a multiplication of a number between 1 to 10 by a power of 10.
Standard mack rollin	$A \times 10^n$ where $1 \le A < 10$ and $n$ is an integer.

$$3.04 \times 10^5 = 304,000$$

$$3.04 \times 10^{-5} = 0.0000304$$

## **KNOWLEDGE**



## **KS3 – Cyber Security**

## **ORGANISER**

Cyber Security Key Terms		
Brute Force attack		A form of attack that makes multiple attempts to discover something (such as a password).
The Computer Misuse	e Act	A UK Law makes accessing a computer system without permission illegal.
The Data Protection A	Act	A UK Law that gives you the right to access the data an organisation stores on you.
DDoS attack		When multiple computers flood a network server with internet traffic in order to disrupt a service.
Hacking		Gaining unauthorised access to or control of a computer system.
Malware		Software that is designed to gain access to your computer with malicious intent.
Penetration testers		People who are paid legally to hack into computer systems with the sole purpose of helping a company identify weaknesses in their system.
Personal Information		Information that is used to describe or recognise a person (e.g. name, date of birth, address etc.)
Social Engineering		Methods used by cybercriminals to deceive individuals into handing over information.
		Protecting yourself
Firewalls	Checks incoming and outgoing network traffic.	
Anti-Malware	Software that scans any file that is able to execute code. If something is at risk it is quarantined.	
Auto-updates	Auto-updates refers to software that automatically checks for available updates for the software you have on your computer.	
User authentication	Measures taken to keeping your data and information safe: passwords, biometrics, CAPTCHA, two-factor authentication etc.	
User permissions	Ensuring information is only available to people that need it.	

	Malware			
Viruses	Malicious software that self-replicates.			
Worms	Worms replicate themselves but do not attach themselves to files as a virus would.			
Ransomware	Locks a computer, encrypts files, and therefore prevents the user from being able to access the data. The attacker demands that a ransom is paid.			
Trojans	Software that appears to perform a useful function but unbeknown to the user it also performs malicious actions.			
Spyware	Unwanted software that monitors and gathers information on a person an dhow they use their computer.			
Adware	Can be a worm, virus, or Trojan. It infects a computer and causes it to download or display malicious adverts or pop-ups when the victim is online.			

Methods of Social Engineering		
Shouldering	Involves the attacker watching the victim while they provide sensitive information (e.g. over their shoulder).	
Name generator attacks	The victim could be asked to provide a few pieces of information in an app to complete a short quiz or produce a name. Attackers do this to find out key information that can help answer security questions.	
Phishing	The victim receives an email disguised to look as if it has come from a reputable source in order to trick them into giving up valuable data.	
Blagging	An attack in which the perpetrator invents a scenario in order to convince the victim to give them data or money.	

## **KNOWLEDGE**

(10 x 10 px)



# KS3 – Representations: Going audio-visual

## **ORGANISER**

Overall Key terms			
Bit		Small unit of data within a computer system (e.g. 0 or 1)	
Binary digit		A base 2 number system made up of bits.	
Machine code		A language that a CPU is able to process.	
		Images	
Pixels		A picture element filled with colour.	
Resolution		The number of pixels in a digital image.	
Colour depth	The nun	nber of binary digits used to represent each pixel's colour.	
Raster graphics		An image made up of pixels.	
RGB Colour The o		quantity of red, green and blue used to create a colour.	
Representation size		resolution x colour depth	
	Sound		
Sample	Taking a regular measurement from sound so you can digitise it.		
Sampling rate	The number of samples taken per second.		
Sample size		The number of bits recorded per sample.	
Representation size	Sampling rate x sample size x duration x channel		

(20 x 20 px)

(30 x 30 px)

High resolution		
Advantages	Disadvantages	
Increased quality	Increased representation size	
Increased capability to capture detail	More space required for storage	
	More effort required for processing	
	More time required for transmission	
	resolution x colour depth	

High Colour Depth				
Advantages Disadvantages				
Increased quality	Increased representation size			
More colours available	More space required for storage			
	More effort required for processing			
	More time required for transmission			
	resolution x colour depth			

High Sampling Rate				
Advantages	Disadvantages			
Increased quality	Increased representation size			
Increased ability to accurately represent the original sound.	More space required for storage			
	More effort required for processing			
	More time required for transmission			
	resolution x colour depth			

## **Unit 1 Physical Education- Knowledge Organiser: Staying safe in Physical Activity**

	Key learning content	Description / Explanation/ Example			
Stage	es of a warm up	Examples of warm up			
•	Stage 1 – pulse raiser (5 mins)	Stage 1 – (Low intensity exercise) A 5 minute jog around a netball court.			
•	Stage 2 – mobility exercises	• Stage 2 – (To a move a joint through its full range of motion) Arm circles, ankle circles, hip circles.			
•	Stage 3 – stretching (10s+)	Stage 3 – (Static or dynamic stretches) quadriceps stretch.			
•	Stage 4 – dynamic movement	Stage 4 – (high intensity exercise) Shuttle runs			
•	Stage 5 – skills practice	Stage 5 – (Practice the skills you will be using) Chest/ shoulder passes (netball)			
•	Names of muscles	Names of muscles: quadriceps, hamstrings, biceps, triceps			
Bene	fits of a warm up	Benefits explained			
•	Increase temperature and HR	Allow more oxygen to reach muscles			
•	Decreased chance of injury	Better for overall health. Can maintain involvement in physical activity .			
•	Increased oxygen transport	More oxygen gets to muscles, so can create more energy.			
•	Increased flexibility	Increased flexibility can enhance performance (Reach higher to catch a ball)			
•	Increased speed / strength of muscle contractions	Faster/ stronger movements - perform skills more effectively.			
•	Mental preparation	Mental preparation – feel more alert/ focussed/ confident/ concentrating/ motivated/ relaxed etc.			
Stage	es of a cool down	Examples of cool down			
•	Stage 1 – Low intensity exercise	Stage 1 – Steady jog on netball court, can move onto a walk			
•	Stage 2 – Stretching	Stage 2 – (Static stretches) Quadriceps stretch, hamstring stretch.			
•	Names of movements – flexion and extension	Flexion = bending at an elbow or knee. Extension = straightening at an elbow or knee			
Bene	fits of cool down	Benefits explained			
•	Gradually lower heart rate	Gradually lower heart rate from 150bpm when working to 70bpm when resting.			
•	Gradually lower breathing rate and temperature.	To maintain blood flow/ oxygen transport/ carbon dioxide removal			
•	Speeds up removal of waste products.	Carbon dioxide and lactic acid removed faster. Reduces aching, recovery is faster.			
•	Speeds up recovery	Joints: Elbow and knee = hinge. Shoulder and hip = ball and socket			
•	Names of joints				
Prep	aring for physical activity	Preparation explained			
•	Wear appropriate PE kit	Sports trainers, shorts, t-shirt to avoid injury yourself or others.			
•	Long hair tied back	So you can see when playing			
•	Jewellery removed	Earrings taken out, bracelets off to avoid injuring yourself or others.			
•	No chewing gum or food	To avoid chocking when active.			
•	Water for hot weather	To stay hydrated /avoid headaches/ feeling weak			
Risks	and hazards to check for	Hazards explained			
•	Area free from rubbish	Check there is no debris such as broken glass on football pitch, to avoid someone injuring themselves.			
	Equipment tidied away	Check there are no equipment such as bibs left out on a basketball court from a previous activity, to avoid someone slipping/ tripping			
	Equipment undamaged	over when warming up.			
	Surface dry/ undamaged	Check the trampoline is up properly, to avoid injury to a player.			
	,,	<ul> <li>Check there is no water spilled on the badminton court, to avoid a player slipping and hurting an arm.</li> </ul>			

## Year 9: Physical Activity- Key terminology

Key word	Description
Aerobic	Use of oxygen for the duration of the exercise. Usually at moderate intensity at a continuous rate e.g. long distance running. Can be performed for a long period of time.
Anaerobic	Exercise which creates energy without the use of oxygen. Usually high or very high intensity for a short period of time. E.g. sprinting up a hill.
Flexibility	Range of movement available around a joint.
Mobility	The ability to move freely.
Dynamic movement	Movements performed at high speed/ intensity.
Oxygen	The gas we breathe in, transport and use to create energy.
Oxygen transport	Oxygen is transported through blood vessels within the red blood cells.
Gaseous exchange	The movement of oxygen and carbon dioxide within the lungs, muscles and vital organs.
Contraction	A muscle contracts and (usually) gets shorter to apply a force and create movement.
Heart rate	Number of heart beats per minute.
DOMS	Delayed Onset Muscle Soreness. Usually occurs 1 or 2 days after high intensity exercise.
Lactic acid	A waste product produced in the muscle tissues during anaerobic exercise.
Waste products	Bi-products of aerobic exercise are carbon dioxide and water. Lactic acid is also a bi-produce of anaerobic exercise.
Carbon dioxide	We produce carbon dioxide as a waste product. We transport it back to the lungs and breathe it out.
Recovery process	Returning the body to resting levels.
Intensity	How hard you work.
Team work	Working together to achieve a common goal. Requires good communication skills.
Reciprocity	Working positively with others as a group.
Demonstration	Showing someone how something should be done.
Communication	Transferring information by speaking, writing, demonstrating and using body language.
Risk	The chance or probability that someone will be harmed.
Hazard	A source of potential danger.
Injury	Damage or harm to the body.
Sprain	Damage to a ligament.
Mental Preparation	Getting your mind ready for competition through visualising the skills and imagining yourself being successful.



#### **KNOWLEDGE ORGANISER**

**CHEMISTRY: Advanced Chemical** 

#### **Reactions**

#### **Vocabulary**

**Chemical Reaction**: Transfer of energy between reacting substances and the surroundings.

**Reactants**: Starting substances in a reaction.

**Products**: Substances that are made at the end of a reaction.

**Fuel**: A substance that can store energy and can release it when burnt.

Combustion: The process of burning.

Thermal Decomposition: A process in which a single substance is broken down on heating into smaller compounds /elements.

**Exothermic**: Energy transferred to the surroundings.

**Endothermic**: Energy transferred from the surroundings.

Conservation of mass: The total mass of the products in a chemical reaction will be the same as the total mass of the reactants as no mass is lost or gained

#### **Types of Reaction**

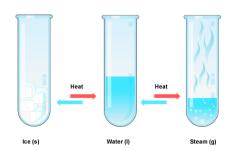
**Chemical Reactions:** atoms are rearranged to create a new substance. These reactions are NOT easily reversed.

**Physical Reactions:** no new substance is made but there is a change in appearance of a chemical. These reactions are easily reversed.

Signs of physical and chemical reactions:

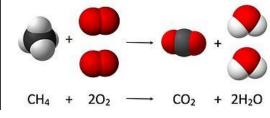
	Physical		Chemical
•	Solid dissolving Change in state	•	Change in appearance (colour) Change in energy (temperature, sound ect.)

**Physical Change:** Dissolving or state change



e.g. Change in state of water

**Chemical Change:** forming a new substance



e.g. Combustion of Methane (Natural Gas)

#### **Word Equations:**

#### Reactants → Products

A chemical equation tells you which chemicals reacted together (the **reactants**) and the new chemicals that were made in the reaction (the **products**).

The simplest equation is a word equation.

For example:

Zinc + Chlorine → Zinc Chloride

Zinc + Carbon + Oxygen→ Zinc Carbonate

Name:

#### **Combustion:**



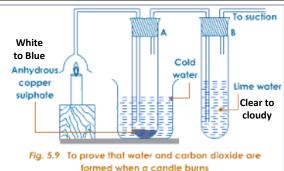
Fire Triangle

**Fuel**: A material that can be burnt to release energy by heating.

EG. Glucose, Methane, Petrol

**Combustion**: Is another name for burning. It is where a fuel is burnt in oxygen and heat to release energy.

## Testing for combustion



When Coal, oil and natural gas undergo combustion;

- •the hydrogen atoms combine with oxygen to make water vapour, H<sub>2</sub>O **[TEST A]**
- •the carbon atoms combine with oxygen to make carbon dioxide, CO<sub>2</sub> [TEST B]
- •the maximum amount of energy is release

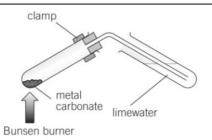


#### **KNOWLEDGE ORGANISER**

**CHEMISTRY: Chemical Reactions** 

#### Name:

#### **Thermal Decomposition:**



#### **Thermal Decomposition:**

Type of reaction in which a compound breaks down to form two or more substances when it is heated.

Many metal carbonates can take part in thermal decomposition reactions:

Thermal decomposition of Metal carbonates:

Metal → Metal + Carbon
Carbonate Oxide Dioxide
EG.

Copper → Copper + Carbon
Carbonate Oxide Dioxide

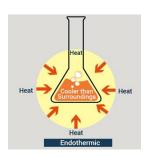
#### **Conservation of mass:**

Atoms are not created or destroyed just rearranged in a reaction so the total mass of the products will be the same as the total mass of the reactants.



mass (g) of reactants = mass (g) of products

#### **Exo- and endo-thermic reactions:**



**Endothermic:** 

Reaction in which

energy is taken in

#### **Exothermic:**

Reaction in which energy is given out to the surroundings. The surroundings then have more energy than they started with so the temperature increases.

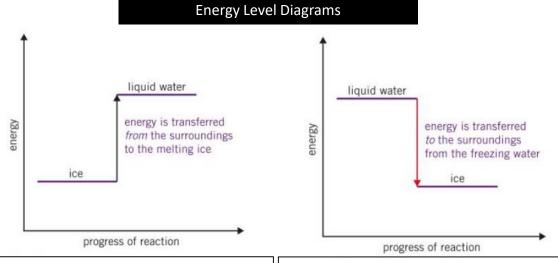
# Heat Heat Heat Exothermic

#### **Examples:**

from the

surroundings.

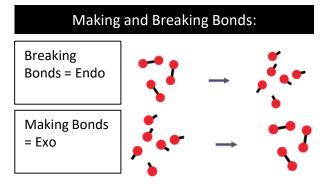
Exo	Endo
burning neutralisation reactions respiration	<ul><li>thermal decomposition</li><li>carbonates and acids</li><li>photosynthesis</li></ul>



Endothermic Reaction e.g water melting

Exothermic Reaction e.g water freezing

Energy level diagrams help us to show the changes that occur during a reaction



Whether a reaction is endo or exo depends on which energy is greater- the making or the breaking of the bonds. Each chemical bond that is broken or made is given a value in kJ.

## **Catalysts:**

Speed up chemical reactions. They alter the rate of reaction without being changed by the reaction.

Enzymes: biological catalysts that speed up cellular reactions

Be REFLECTIVE: Review your

learning

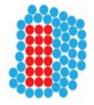
## **KNOWLEDGE ORGANISER**YEAR 9: ADVANCED FORCES

Page 1

Contact force	These forces only act when two things are touching.			
Non-contact force	These forces can act when things are not touching			
Newtons	tons The units for measuring forces			
Drag force	The force acting on an object moving through air or water that causes it to slow down.			
Friction	The forces that slows things down when they move on a surface e.g. a car on a road.			
Streamlined	When something is shaped to reduce friction or air resistance			
Law of moments	An object is in equilibrium if the clockwise moments equal the anticlockwise moments.			
Upthrust	The force on an object in liquid or gas that pushes them up			
Moment	A measure of the ability of a force to rotate an object around a pivot.			
Elastic	Something which stretching and springs back to its normal shape			
Deform	When something changes shape			
Compress	When an object is squashed			
Extension	The difference between the original length of an object and the length when you apply a force.			
Pressure	The ratio of force to surface area, in N/m², and how it causes stresses in solids.			
Liquid pressure	The pressure produced by collisions of particles in a liquid.			
Equilibrium	When all of the forces on something are balanced and cancel out.			

#### Friction and drag

- . Friction is a force which will slow down a moving object due to two surfaces rubbing on one another
- The greater the friction, the faster an object will slow down, or the greater the force it will need to overcome the force of friction. For example, it is easier to push a block on ice than on concrete, as the ice is smoother and causes less friction
- When an object is moving through a fluid, either liquid or gas, the force which slows it down is known as drag
- The fluid particles will collide with the moving object and slow it down, meaning that more force is needed to overcome this
- Both drag and friction are contact forces as the two surfaces in friction, and the object and fluid particles in drag, come into contact with one another



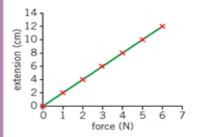
A solid moves through a gas.

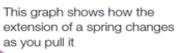
A solid moves through a liquid.

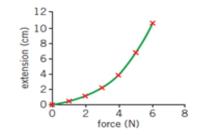
. Both drag and friction are forces so they are measured in Newtons (N)

#### Hooke's law

- Some objects, like springs, can be stretched, the amount that they stretch is known as their extension
- A force needs to be applied to the spring for it to be stretched, we can achieve this by adding masses which exert the force weight
- . A spring will continue to stretch until it passes it's elastic limit
- If an object obeys Hooke's law it will have a linear relationship: if the force applied to the spring is doubled, the extension will double too
- . If an object does not obey Hooke's law, it will not have a linear relationship







This graph shows the relationship between force and extension



## KNOWLEDGE ORGANISER YEAR 9: ADVANCED FORCES

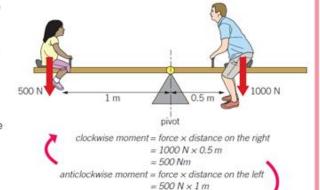
Page 2

#### **Turning forces**

- · A moment is the turning effect of a force, it is measured in Newton meters
- · We can calculate a moment with the equation:

moment (Nm) = force (N) × distance from the pivot (m)

- The size of the moment will increase as the distance from the **pivot** or the size of the force increases
- When an object, such as a seesaw, is balanced, the clockwise and the anticlockwise moments will be equal and opposite, which is known as equilibrium
- When forces are equal and opposite to each other, there is no resultant force



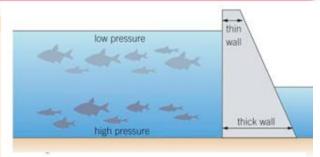
= 500 Nm

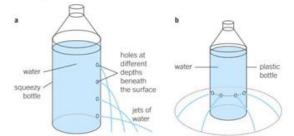
#### Gas pressure

- Gas pressure is caused by the particles of a gas colliding with the wall of the container which they are in
- The more often that the particles collide with the wall of the container, the higher the pressure of the gas will be
- · Gas pressure can be increased by:
  - Heating the gas so the particles move more quickly and collide with the container with a higher energy
  - Compressing the gas so there are the same amount of particles within a smaller volume meaning that there are more collisions
  - Increasing the amount of particles within the same volume so there are more collisions
- Atmospheric pressure is the pressure which the air exerts on you all of the time, nearer the ground there are more particles weighing down on you so the pressure is greater
- The higher you go, the smaller the atmospheric pressure, this is because there will be less particles weighing down on you

#### Pressure in liquids

- Liquids are incompressible
- The particles in a liquid are already touching, meaning that there is little space between them to compress
- Liquids will transfer the pressure applied to them, this is seen in hydraulic machines
- As the ocean gets deeper, the pressure will increase, this is because the pressure depends on the weight of the water above
- The greater the number of water molecules above, the higher the pressure will be





#### Pressure in solids

- The pressure which is exerted on a solid is known as stress
- The greater the area over which the force is exerted over, the lower the pressure, this is why snowshoes have a large area to prevent you sinking into the snow
- Pressure can be calculated using the following equation:

$$pressure = \frac{foro}{area}$$

pressure  $(N/m^2) = \frac{\text{force }(N)}{\text{area }(m^2)}$ 

#### Worked example

A caterpillar vehicle of weight 12 000 N is fitted with tracks that have an area of 3.0 m<sup>2</sup> in contact with the ground. Calculate the pressure of the vehicle on the ground.

#### Solution

pressure = 
$$\frac{\text{force}}{\text{area}} = \frac{12000 \,\text{N}}{3.0 \,\text{m}^2} = 4000 \,\text{Pa}$$



ье кЕFLECTIVE: Review your learning



#### **KNOWLEDGE ORGANISER BIOLOGY: ORGANISMS - Genetics**

Name:

DNA

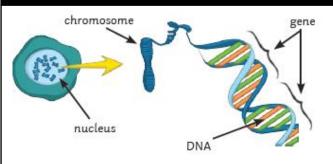
Gene

Chromosome

Allele

Gene banks

#### **Structure of DNA**



#### **Genetic modification**

Altering an organisms genes to gain a desired characteristic of feature. GM crops are crops that have been produced by genetic engineering e.g. **Examples of genetic modification:** 

- Bacterial cells have human **insulin gene** inserted into them so that they produce insulin for diabetics.
- Frost resistant tomatoes
- Plants, such as rice, that have had genes inserted that make them resistant to disease, insects, herbicides or more nutritious. **Examples of desired characteristics:**
- Disease resistance in food crops.
- Animals which produce more meat or milk.
- Domestic dogs with a gentle nature.
- Large or unusual flowers.

#### **Evolution**

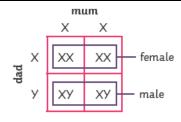
Scientific analysis of fossils shows that species have changed over long periods of time. This change is evolution. Charles Darwin first proposed this theory called **natural selection**. If a variation in the genes of an organism is advantageous in an environment, e.g. beak shape of finches beaks changed to allow them to find food easier, then it more likely to survive and pass that characteristic to its offspring.



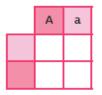


After the industrial revolution, the increased soot resulted in dark peppered moths being camouflaged more than light peppered moths, so they were less likely to be eaten and more survived and passed on their advantageous genes via natural selection

#### **Inheritance and Punnet squares**



Females carry two X chromosomes. Males carry one X and one Y chromosome.



# Step 1:

from one parent into the boxes at the top. This parent has one dominant allele and one recessive allele



#### Step 2:

Put the two alleles Put the two alleles from the second parent into the boxes on the left. This parent also has one dominant and recessive allele.



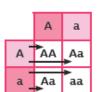
#### Step 3:

Put the alleles from the first parent into the two boxes

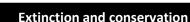


#### Step 4:

Put the alleles from the second parent into the underneath them. letters from the letters first).



boxes next to the first parent (capital



**Extinction:** A species becomes extinct when there are no more individuals of that species left, so we must relay on fossils to prove existence.

#### **Conservation and biodiversity**

Seed banks are a conservation measure for plants. Seeds are carefully stored so that new plants may be grown in the future.



#### A dominant allele is **always expressed**. Only **one copy** is needed. **Dominant** Only **expressed if two copies are** Recessive present. Different versions of the same gene Allele dominant and recessive. Mutation A random change in the DNA A process which involves modifying the Genetic **genome** of an organism by modification/ introducing a gene from another **Engineering** organism to give a desired characteristic. The change in the genes of a population over time. Occurs through **Evolution** natural selection. The preserved remains of an organism from many thousands of years ago. They Fossil can also show changes/evolution over

**Key vocabulary** 

chromosomes.

chromosome..

nucleus.

**Genetic material**. DNA is a **polymer** 

A gene is a **small section of DNA** on a

Different versions of the same gene

Conservation method that stores genetic

examples of different species

made up of two strands forming a

double helix. The DNA makes up

A long coil of DNA. Found in the

dominant and recessive.



#### Year 9 Knowledge Organiser - Women's fight for the vote

	Key Dates
1819	<b>Peterloo Massacre</b> saw 15 people killed and 600 injured when people in Manchester protested for the vote.
1832	First petition for women's right to vote created by Mary Smith and presented by Henry 'Orator' Hunt
1832 – 1848	The Chartists fought for men's right to vote.
1857	<b>Divorce and Matrimonial Causes Act</b> allowed women
	to divorce husbands who abused them
1865	<b>Elizabeth Garrett Anderson</b> became the first female
	doctor in Britain. <b>Barbara Leigh Bodichon</b> forms the Women's Suffrage Committee.
1866	Famous petition signed by 1,499 women including Florence Nightingale.
1882	Married Woman's Property Act allowed women to keep their property when they married.
1887	Leicester Women's Suffrage Society was formed by Agnes Archer Evans
1897	National Union of Women's Suffrage Societies
	(NUWSS) formed by Lydia Becker and Millicent Fawcett. They are nicknamed the Suffragists.
1903	Women's Social and Political Union (WSPU) is formed by Emmeline Pankhurst with her
	daughters Sylvia and Christabel.

#### **Key Words**

Cat and Mouse Act – Law passed in 1913 which meant the government could release Suffragettes while they were ill and re-arrest them when they became well again.

**Constituencies** – An area of the country which can vote for their MP. Examples include Harborough or Leicester South.

**Democracy** – The system which allows people to vote for their government.

Franchise – The people who can vote. If people want to extend the franchise, it means they want to increase the number of people who can vote.

Government – The group of people who run the country.

**House of Commons** – The area of parliament which has MPs who are elected to serve the people. They debate and vote for laws.

**Member of Parliament (MP)** – The person who is voted for by people in a particular area who then represents them in the House of Commons.

Monarch - The king or queen.

Parliament – the name for both the House of Commons and the House of Lords. Both of these are part of Britain's system of running the country.

**Prime Minister** – The person who runs the government.

Suffrage - The right to vote.

Vote – A right to choose the government who runs the country.

Women's Suffrage - The right for women to vote.

#### **Key People**

Emmeline Pankhurst – Lead of the Suffragettes (WSPU)

Christabel & Sylvia Pankhurst –
Daughters of Emmeline Pankhurst
and joint leaders of the WSPU.
Sylvia refused to get involved in war
work in World War One.

Millicent Fawcett – Leader of the Suffragists (NUWSS)

David Lloyd George – Politician who was a supporter of women's suffrage. His house was bombed by the Suffragettes in 1913. He became Prime Minister in 1915.

Herbert Asquith – Politician who was not a supporter of women's suffrage until around 1917.

Emily Davison – Suffragette who bombed Lloyd George's house and who was killed when trying to pin a scarf on the King's horse in 1913.

Sophia Duleep Singh – Indian princess and high profile Suffragette who protected people against violence, particularly on Black Friday.

Edith Garrud – Expert in martial art of jujitsu who trained Suffragettes to defend themselves from the police.









History



#### Year 9 Knowledge Organiser - Women's fight for the vote

#### **Key Words**



Anti-suffrage – some people (including women) campaigned against women getting the vote.

Force-feeding – In order to keep them alive, the prison guards would feed Suffragettes by putting a tube down their throat and tipping liquid like soup down it.

Hunger strike – Suffragettes would stop eating while in prison, in protest against being treated as criminals.

Munitions – Ammunition and weapons.

Pacifist – someone who does not support war.

Petitions – List of signatures from the public saying that they support an issue. It is designed to influence MPs by showing how popular an idea is.

Poor Law Guardians – People who had to check the poor law was being followed, including the treatment of the poor in the workhouses.

Workhouses – Like prisons for poor people. They had to do hard work, wore prison uniforms, and were separated from their families.

#### Key Facts: Women in the 19th Century

- Women were not allowed to vote or become MPs
- Some women took positions of responsibility as Poor Law Guardians to show that they were responsible.
- In 1865 Elizabeth Garrett Anderson became the first female doctor in Britain.
   Many other women went on to train in other professions such as lawyers, but many were also stopped by universities who refused to give them their qualifications.
- Before the 1857 Divorce and Matrimonial Causes Act women could not divorce their husbands even if they were abused by them.
- Before the 1872 Infant Custody Act children belonged to their father who could stop their mother from seeing them.
- Before the 1882 Married Woman's Property Act women had to give up their property when they got married.
- Women were believed to be mentally and physically inferior. They were seen as too emotional to be able to vote. Many women tried to challenge this.
- Women were expected to focus on getting married and having children if they
  were Middle Class. Working Class women had to do this and find paid work to
  support their families but women's work was always paid lower than men's.

#### **Early Campaign**

- In 1865, Barbara Leigh Bodichon formed the Women's Suffrage Committee.
   She campaigned for women's rights by publishing pamphlets and signing petitions. She helped influence the government to pass the 1882 Married Woman's Property Act.
- Lydia Becker set up the Manchester Suffrage Committee. She campaigned for improvements in education which led to the 1870 Education Act which created better education for girls.
- Agnes Archer Evans set up the Leicester Women's Suffrage Society in 1887.
- Although early campaigns helped get some laws passed, they still did not manage to get the law changed so that women could vote.

#### The Suffragists (NUWSS)



- Formed in 1897
- Led by Lydia Becker and Millicent Fawcett
- Colours were red (dignity), white (purity), green (hope)
- Only used peaceful methods such as petitions, marches, speeches, letter-writing etc.
- In 1897 they published a petition which got 230,000 signatures – a large number at the time.
- Historians debate how much influence they had. Many Suffragists continued to campaign during the First World War and helped to draft the Representation of the People Act which gave women the vote.
- Peaceful tactics often won them a lot of support, in contrast to the Suffragettes who were often seen as terrorists.
- Peaceful tactics also showed that women were responsible and not emotional and irrational as some people argued.
- Many Suffragists also continued to campaign after 1918 for women to get equal voting rights. This was won in 1928.

#### The Suffragettes (WSPU)

- Formed in 1903
- Led by Emmeline Pankhurst and her daughters Sylvia and Christabel
- Had been Suffragists but became frustrated with the slowness of change and so turned to violent tactics. From 1910 they were becoming most famous for violent tactics, although they continued to use peaceful ones.
- Slogan "Deeds not words".
- Colours white (purity), purple (freedom and dignity), green (hope).
- 1905 Annie Kenney and Christabel Pankhurst disrupted a meeting of the Liberal Party by shouting slogans.
- 1909 Edith Garrud started teaching Suffragettes jujitsu.
- Black Friday in 1910 saw 300 Suffragettes on a peaceful march being assaulted by police officers. One woman in a wheelchair was beaten and kicked. Sophia Duleep Singh used her status to protect a number of women. Many women were arrested.
- 1910 violent tactics included throwing stones at politicians, rocks through shop windows, setting fire to post boxes, using bleach to write slogans on golf courses.
- 1913 Elsie Duval and Olive Beamish set fire to the house of Lady White (an anti-suffrage campaigner), causing £3,000 worth of damage (£400,000 today).
- 1913 Emily Davison planted two bombs at Lloyd George's house, causing £500 worth of damage (£55,000 today).
- 1913 the Liberal government passed the Cat and Mouse Act which allowed them to release Suffragettes who were on hunger strike, only to rearrest them when they got better. This stopped women dying while in prison.
- 1913 Emily Davison was killed trying to pin a Suffragette scarf on the King's horse at the Derby. 6,000 Suffragettes led a peaceful funeral march.
- 1914 the Suffragettes dissolved in order to support the war effort. Sylvia refused to get involved as she was a pacifist.

#### World War One



- When war broke out in 1914 the government thought women's role was to encourage men to sign up to fight and to look after their homes and children.
- By 1915 there was a shortage of munitions and women were encouraged to work in war industries. Around 1 million women worked in munitions which was very dangerous.
- Women also joined nursing organisations such as Queen Alexandra's Royal Army Nursing Corps. Others were ambulance drivers on the front line or doctors either in the trenches or in hospitals in Britain.
- Flora Sandes was the only British woman to fight on the frontline in World War One. Women were not allowed to fight in the British army so she joined the Serbian army. She became Serjeant-Major.
- 1917 the Women's Land Army was set up to provide food to Britain. Around 23,000 women joined.
- Women were also ticket collectors, bus drivers, police officers, firefighters, post office workers, telephone operators, delivery drivers etc.
- Some women were pacifists and campaigned for an end to the First World War.
- At the end of the war, most women were expected to give up their jobs, but many fought to keep them.

#### The Vote

- Women over 30 with £5 of property won the vote in 1918.
- The government wanted only Middle and Upper Class women to vote and hoped that over 30 years old they might have a husband to tell them what to do.
- Women campaigned to have equal voting rights, which they won in 1928.



## Geography

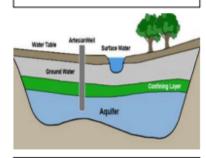
Year 9

The Middle East knowledge organiser



#### C) Maths

- Range take the lowest number away from the highest number
- 2- Mean add up all of the numbers and divide by how many numbers there are
- Median place the numbers in numerical order and select the middle number



#### D) Causes of war/conflict

- Economic gain (to take control of another country's wealth)
- Territorial gain (to take control of land)
- Nationalism (to prove your country is superior/better than another country)
- Civil war (fighting between different groups of people within the same country)
- Revolutionary war (when large numbers of people in a country tries to topple the government or leader of a country)

#### A) Middle East's physical geography

- The Middle East is a transcontinental region, located where Asia, Africa and Europe meet.
- · This region is rich in oil
- There are two seasons. Winter and summer. Even winters are hot.
- The climate can be described as arid. There is little rainfall in the region.
- The northern countries receive the most rainfall including Turkey and Syria.

#### B) Water stress and drought

- Many countries are facing water stress including Saudi Arabia, Yemen and Oman.
- Water stress is where the demand for water exceeds the availability
- Exceeds means to go above
- Population growth and falling rainfall is causing an increase in water stress
- The level of water in underground aquifers is falling. In some places this decreasing by 6 metres per year
- An aquifer is an ancient supply of water deep beneath the ground
- Water stress will impact on the social and economic development of countries in the Middle East
- Farmers will not be able to grow crops or rear animals. This
  could lead to a rise in food prices and eventually food
  shortages.
- In the future water shortages could lead to conflict in the region.

#### E) Causes of the civil war in Syria

- Many people in Syria had been unhappy with President Assad for a long time. There was high unemployment and corruption.
- 2- In 2011 15 school children were arrested for writing antigovernment graffiti on a wall. People were unhappy with this and so started to protest.
- The government responded angrily opening fire and killing 4 protesters.
- 4- People demanded that the president resign. Fighting broke out between the president's supporters and those against the president (called rebels)
- 5- Russia and Iran became involved. Carrying out air strikes against cities held by rebel groups
- 6- The USA has shipped weapons to support the rebels
- 7- The UK and France carried out air strikes against government forces after they reportedly used chemical weapons against civilians (people not involved in the fighting)

#### F) Key terms

- Refugee a person fleeing from war, persecution or natural disasters. They are protected by law. People have to prove they are a refugee if they want a safe country to accept them
- Asylum seeker someone who claims to be a refugee, looking for a safe place to live. But whose case has not yet been proven.
- Migrant A migrant is a person who moves from one place to another. Refugees are a type of migrant.
   Another type is an economic migrant. Someone who moves to another country for a job there. Refugees are very different to economic migrants.

#### G) Refugee movements from Syria

- Around 6 million refugees have now left Syria. 2.7 million are in Turkey and 1 million are in Jordan.
- Germany, Bulgaria and Sweden are the European countries that have accepted the most refugees from Syria.
- Only 3000 Syrian refugees have applied for asylum (safety) in the UK in comparison to 160,000 in Germany.

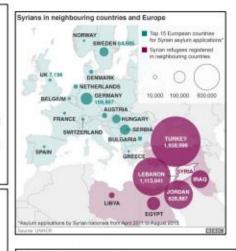
#### Areas of control in Yemen



#### I) Taking action

There are a number of things people in the UK can do to support people in Yemen and Syria

- Write a letter to your local MP asking them to urge the government to support a ceasefire
- Email the foreign secretary Jeremy Hunt through Oxfam's website asking him to ensure peace talks are successful
- You can donate to charities like Oxfam that are busy providing lifesaving supplies to people in Yemen and Syria



#### H) Conflict in Yemen

The conflict in Yemen has caused a humanitarian crisis. It is threatening people's health, safety and well-being on a large scale.

It has a number of social and economic consequences for the people of Yemen

- At least 10,000 people have died in the 3 and a half years since the conflict begun. This is an estimate figure and it is expected to be more
- 2. Around 20 million people are food insecure
- Food security is having reliable access to food at an affordable price
- Hospitals and schools have been destroyed by air strikes
- Transport infrastructure has been destroyed by air strikes making it difficult for aid to get to the places it is needed most.
- 50% of the population struggle daily to get enough water to drink and grow food



#### Introduction to climate change: key words

**Greenhouse effect**: the trapping of the Sun's outgoing radiation by a layer of greenhouse gases in the atmosphere. These gases include carbon dioxide and methane.

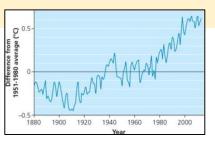
Global warming: an increase in the temperature of the Earth due to more heat being trapped by greenhouse gases.

Climate change: significant changes in global temperature, precipitation (rainfall) and winds.

Climate change is a *controversial issue* as people have different opinions as to whether it is a natural process or if it is caused by human activity.

#### Evidence for climate change

- Temperature increase is key evidence that climate is changing.
- Significant reduction in Arctic sea ice cover.
- These indicators will all increase; air temperature, humidity, temperature over oceans and ocean heat content.
- These indicators will all decrease; glacier cover, snow cover and sea ice cover.



#### **Climate Change and the Earth's Future**

#### Causes of climate change

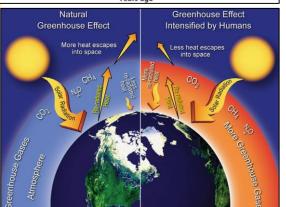
Earth's temperature has fluctuated (changed) over time during glacials cold periods when much of the Earth was covered in ice, and interglacials warmer periods such as today.

Since the Industrial Revolution the concentration of greenhouse gases in the atmosphere has increased which has led to global warming.

The main differences between the natural and human enhanced greenhouse effects are:

- 1. Human enhanced has a thicker layer of greenhouse gases.
- 2. Human enhanced has more heat reflected back down to Earth.
- 3. Human enhanced has less heat escaping to space.

## Interglacial 300 000 400 000



#### **Knowledge Organiser**

#### Global impacts continued

#### **Environmental impacts**

- Species in affected areas (e.g. Arctic) may become extinct
- Some animals may not be able to adapt to changes in climate and their habitats could be destroyed.

#### **Economic impacts**

- Increased cost of flood defences for low lying cities e.g. Venice, and repairing damage caused by natural disasters.
- Some countries may not be able to sell food and have to import more food.
- Cost of relocating people who have had to leave their homes.

## Global impacts of climate change

#### **Social impacts** Sea level rise will affect 80 million people – causing homes

- to flood and people to relocate.
- Tropical storms will increase in magnitude (strength) destroying houses and making people homeless.
- Some areas will receive less rainfall so there will be more water shortages.
- Some crops will not be able to be grown leading to hunger.
- Diseases such as malaria increase, an additional 280 million people may be affected

#### Impacts of climate change in the UK

#### **Social impacts**

- Droughts and floods could be more common, especially droughts in London and the south east.
- Flooding of coastal areas and rivers will increase.
- Summers will be warmer so more people may stay in the UK and not go overseas.

#### **Environmental impacts**

- Bird migration patterns may change.
- Trees and plants will flower earlier.

#### **Economic impacts**

- New crops can be grown e.g. oranges meaning less food needs to be imported.
- Cost of protecting against flooding will increase.
- More money may need to be spent on ensuring sufficient water supplies in some areas.

#### Impacts of climate change in Antarctica

- Temperatures have increased by 3 degrees Celsius.
- Large chunks of ice shelves are breaking away each summer and since 1950s, 25 000 kilometer squared has melted.
- Adelie penguin numbers have declined, as have Emperor penguin numbers in the south.
- Krill numbers have decreased by 80% since the 1970s. These creatures are an important source of food for whales, seals and penguins.
- Ice melting in Antarctica can cause sea level in other parts of the world to increase at a rate of 3mm per year.

#### Climate change adaptation and mitigation

**Adaptation:** These strategies aim to respond to climate change by limiting negative impacts, e.g. barriers against sea level rise.

**Mitigation**: Actions to reduce climate change. E.g. planting trees and international agreements.

#### The Paris Climate Agreement:

- Signed in 2015 by 189 countries.
- Agreed to keep global warming below 2 degrees Celsius.
- Wealthier countries would help support countries with less money to meet their target.

#### **Geo-engineering:**

- Deliberate manipulation (changing) of the Earth's climate.
- E.g. covering roofs and roads to reflect sunlight.
- Spraying sea water into clouds to make it rain.





#### Plastic pollution in the oceans

- Plastic pollution has increased dramatically in recent years as more and more products are made of plastic as it is cheap and strong. However, plastic is often thrown away and not recycled.
- Plastic is transported by spiralling ocean currents or gyres and it breaks down into tiny particles which are eaten by fish and sea creatures who think they are food.
- Solutions to the problem; boycott (avoid) single-use plastic, use re-usable bottles and coffee cups, buy products made form recycled materials.

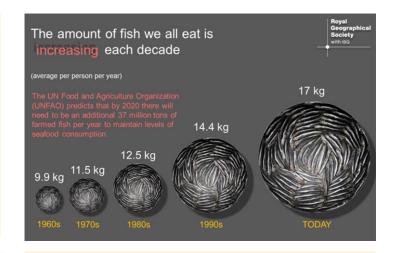
#### Plastic pollution in the oceans

- In recent years deforestation has significantly increased in Malaysia to clear land to grow palm oil which is widely used in food and beauty products, for logging, mining and hydro-electric power.
- This deforestation has had many impacts; reduced biodiversity as species have lost habitats, forest fires as trees can be burned to clear them and these get out of control, disruptions to the water cycle, soil erosion and an increase in greenhouse gas emissions.
- Solutions to deforestation include buying products with sustainable palm oil or using alternatives to palm oil, paying people to protect the forest e.g. through ecotourism.

#### Climate change and the Earth's future summary

This topic has focused on climate change and some of the other challenges facing our planet.

A key theme for this topic is the idea of sustainability; Using resources responsibly so that the needs of the present generation are met without compromising the ability of future generations to meet their needs.



#### **Overfishing**

- As world population has increased there is increasing demand for fish which is the main source of protein for 3 billion people.
- As a result of this demand, 70% fish stocks are being overfished or exploited.
- Overfishing the process of depleting (significantly reducing) the amount of fish available by fishing too much.
- Solutions creating marine reserves (these currently only make up 1% of Earth's oceans) where fish are protected, setting quotas or limits on number of fish that can be caught or marking tins of fish with whether they have been sustainably caught or not – pole and line tuna is most sustainable.





CORE						
Time phrases/Sequencers		Key vei	rb phrases	Connectives		
normally	normalement	I have	<u>j'ai</u>	but	mais	
often	souvent	I have not	je n'ai pas de	and	et	
usually	d'habitude	I am	<u>je</u> suis	because	car/ parce que	
from time to time	de temps en temps	I am not	je ne suis pas	also	aussi	
sometimes	quelquefois/parfois	I would like	<u>je</u> voudrais	however	cependant	
tomorrow	demain	it is	c'est	therefore	donc	
next week	la semaine prochaine	it is not	ce n'est pas	as	comme	
Summer / Autumn	en été / en automne	there is	il y a	or	ou	
Winter / Spring	en hiver / au printemps	there is not	il n'y a pas de	however	pourtant	
morning/afternoon/evening	le matin/l'après-midi/le soir	it will be	ce sera	on the other hand	par contre	
then	puis	I'm going to	<u>je</u> vais +infinitive	fortunately	heureusement	
always/still	toujours	you must	on doit +infinitive	unfortunately	malheureusement	
at the moment	en ce moment	you must not	on ne doit pas +infinitive	in <u>addition</u>	en plus	
later	plus tard	you can	on peut +infinitive		<del></del>	
in the future	a l'avenir	you cannot	on ne peut pas +infinitive	Ne	gatives	
yesterday	hier	it was	c'était		<u> </u>	
last night	<u>hier</u> soir	it wasn't	<u>ce</u> n'était pas		ot <u>ne</u> jamais	
last week	la semaine dernière	there was	<u>il</u> y avait	neve	er <u>ne</u> pas	
last year	<u>l'année</u> dernière	there wasn't	<u>il</u> n'y avait pas de			
next	ensuite	it would be	ce serait	Com	parisons	
firstly	d'abord	it would not be	ce ne serait pas	more tha	n plus que	
after	après ça	if I was rich	si j'étais riche	less tha	-	
before	avant	in an ideal world	dans un monde idéal	1622 (110	n moins que	
lastly	enfin / finalement	in my dreams	dans mes rêves			
Quantifiers/	Intensifiers	Ор	inions	le	dioms	
very	très	In my opinion	à mon avis / selon moi	How awful!	Quelle horreur !	
too	trop	I think that	<u>je</u> pense que	What luck!	Quelle chance !	
quite	assez	I Like	j'aime	What a surprise!	Quelle surprise!	
a bit	un peu	Hove	j'adore	What an idiot!	Quel imbécile !	
really	vraiment	I don't like	<u>je</u> n'aime pas	It's brilliant!	C'est le pied !	
a lot	beaucoup	I hate	<u>je</u> déteste	It's not my thing!	Ce n'est pas mon truc!	
		I prefer	<u>je</u> préfère	It's a waste of time!	C'est une perte de temps!	
		My favourite is	ma/mon <u>préféré(e)</u> est	It's a waste of money!	C'est une perte d'argent!	
		I find that	<u>je</u> trouve que			

CHALLENGE					
Time phras	ses/ Sequencers	Key verb phrases		Opinions	
today	aujourd'hui	you can see	on peut voir	for me	<u>d'après</u> moi
each/every	chaque	if it is	si c'est	I believe that	je crois que
currently	actuellement	there would be	<u>il</u> y aurait	according to	selon
the next day	<u>le</u> lendemain	there would not be	il n'y aurait pas de	I really hate	<u>j'ai</u> horreur de
in my dreams	dans mes rêves	you could	on pourrait +infinitive	I really love	j'apprécie
in an ideal world	dans un monde idéal	you couldn't	on ne pourrait pas	I can't stand	<u>je</u> ne supporte pas
when I was little	<u>quand</u> j'étais petit ( e )	you should	on devrait +infinitive	my friends say that	mes copains disent que
when I'm older	quand je serai plus âgé ( e )	you shouldn't	on ne devrait pas	my parents say that	mes parents disent que
for 5 years	depuis 5 ans	you must	il faut +infinitive	my teachers say that	mes profs disent que
since I was 5 years old	depuis l'âge de 5 ans	you must not	il ne faut pas	my mum tells me that	ma mère me dit que
				my dad tells me that	<u>mon</u> père me dit que
Quantifie	rs/ Intensifiers	Negatives		I would say	įe dirais que
	-			I like /love it / them	<u>j'aime</u> /j'adore ça
SO	<u>si</u>	nomore/longer	<u>ne</u> plus	I am for	je suis pour
rather	plutôt	nothing	<u>ne</u> rien	I am against	<u>je</u> suis contre
extremely	<u>extrêmement</u>	no one/nobody	<u>ne</u> personne	I agree with	je suis d'accord avec
frankly	franchement	neithernor	<u>ne</u> ni ni	I disagree with	je ne suis pas accord avec
hugely	<u>énormément</u>			what I like is	ce que j'aime c'est
incredibly	incroyablement			it seems that	<u>il</u> semble que
				as far as is concerned	en ce qui concerne
Con	inectives	Comparisons	/ Superlatives	Idioms	
nevertheless	néanmoins	best	meilleur (e )	Although it is	Bien que ce soit
whereas	tandis que	worst	pire	That's life!	C'est la vie !
even if	<u>même</u> si	the best thing is	la meilleure chose est	What a shame!	Quel dommage !
furthermore	de plus	the most important	la chose la plus	What a disaster!	Quelle catastrophe !
since	puisque	thing is	importante est	What a pain!	Quel ennui !
not at all	pas du tout	what I like the most is	<u>ce</u> que j'aime le plus est	It was so boring!	C'était la barbe !
				I was over the moon!	J'étais aux anges !
				I was bored to death!	Je m'ennuyais à mourir !
				I've had enough!	J'ai le cafard !
				I was so fed up!	J'en avais marre !

## Spanish

## Lionheart Modern Languages Year 7-9 High Frequency Words – SPANISH CHALLENGE

CORE					
Time phrases	/ Sequencers	Key verb phrases		Conr	nectives
normally	normalmente	I have	tengo	but	pero
often	a menudo	I have not	no tengo	and	у
usually	generalmente	I am	soy / estoy	because	porque / ya que
from time to time	de vez en cuando	I am not	no soy / estoy	also	también
sometimes	a veces	I would like	me gustaría	however	sin embargo
tomorrow	mañana	it is	es / está	therefore	por lo tanto / por eso
next week	la semana próxima	it is not	no es / está	as	como
summer / autumn	en verano / otoño	there is	hay	or	0
winter / spring	en invierno / primavera	there is not	no hay	however / although	aunque
morning/afternoon/evening	por la mañana/ tarde/ noche	it will be	será	on the other hand	por otro lado
then	luego / después	I'm going to	voy a + infinitive	fortunately	por suerte
always/still	siempre / aún	you must	se debe + infinitive	unfortunately	por desgracia
at the moment	en este momento / ahora	you must not	no se debe + infinitive	in addition	además
later	más tarde / después	you can	se puede + infinitive		
in the future	en el futuro	you cannot	no se puede + infinitive	Negatives	
yesterday	ayer	it was	fue	·-	,
last night	anoche	it wasn't	no fue	not	no
last week	la semana pasada	there was	había	never	no nunca
last year	el año pasado	there wasn't	no había		
two years ago	hace dos años	it would be	sería	Com	parisons
next	luego	it would not be	no sería	more than	más aus
firstly	primero	if i was rich	si fuera rico/a		más que
after	después (de)	in an ideal world	en un mundo ideal	less than	menos que
before	antes (de)	in my dreams	en mis sueños		
lastly	finalmente				
Quantifiers	/ Intensifiers	Opi	inions	Id	ioms
Very	muy	In my opinion	en mi opinión	How great!	i Qué bien!
Too	demasiado	I think that	pienso que	How bad !	i Qué mal !
Quite	bastante	I like	me gusta(n)	How funny !	i Qué divertido !
A bit	un poco	I love	me encanta(n)	How cool!	i Qué guay !
so	tan	I don't like	no me gusta(n)	How boring / annoying!	i Qué aburrido! ¡Qué rollo
Really	adjective ending -ísimo/a(s)	I hate	odio	How dreadful!	i Qué horror!
A lot	mucho	I prefer	prefiero	It's crazy!	i Es una locura !
		My favourite is	mi favorito/a es	It's a waste of time!	i Es una pérdida de tiempo!
		I find it	me parece	It's a waste of money!	i Es una pérdida de dinero!

## Lionheart Modern Languages Year 7-9 High Frequency Words – SPANISH CHALLENGE

CHALLENGE							
Time phrases	s / Sequencers	Key ver	b phrases		Opinions		
today	hoy	you can see	se puede(n) ver	for me	para mí		
each/every	cada	if it is	si es	as I see it	a mi modo de ver / a mi juicio		
currently	actualmente	there would be	habría	I believe that	creo que		
the next day	al día siguiente	there would not be	no habría	according to	según / para		
in my dreams	en mis sueños	you could	podría + infinitive	I really hate	detesto		
in an ideal world	en un mundo ideal	you couldn't	no podría + infinitive	I really love	me chifla/ me mola		
when i was little	cuando era pequeño/a	you should	debería + infinitive	I can't stand	no aguanto / no soporto		
when i'm older	cuando sea mayor	you shouldn't	no debería + infinitive	my friends say that	mis amigos dicen que		
for 5 years (now)	desde hace 5 años	you must	hay que + infinitive	my parents say that	mis padres dicen que		
since i was 5 years old	desde que tenía 5 años	you must not	no hay que + infinitive	my teachers say that	mis profesores dicen que		
				my mum/dad tell me that	mi madre /mi padre me dice que		
Quantifiers	/ Intensifiers	Neg	atives	i would say	diría que		
	•	,,		I like/love it / them	me gusta(n) / me encanta(n)		
SO	tan	nomore/longer	ya no	I am for	estoy a favor de		
rather	bastante	nothing	no nada	I am against	estoy en contra de		
extremely	extremadamente	no one/nobody	no nadie	I agree with	estoy de acuerdo con		
frankly	francamente	neither nor	no ni	I disagree with	no estoy de acuerdo con		
entirely/ totally	totalmente			what I like	lo que me gusta		
incredibly	increíblemente			it seems that	me parece que		
				as for me	por mi parte / en cuanto a mí		
Conn	ectives	Comparisons / Superlatives			Idioms		
nevertheless	aun así	best	mejor	No more excuses !	i Basta de excusas !		
whereas	mientras que	worst	peor	I am fed up!	i Estoy harto/a!		
even if	aunque	the best thing is	lo mejor es	What a shame !	i Qué lástima !		
additionally	asimismo	the most important is	lo más importante es	What a disaster!	i Qué desastre!		
since	dado que / ya que	what I like the most is	lo que más me gusta es	It sounds funny /curious!	i Suena muy gracioso / curioso !		
not at all	en absoluto			A dream come true!	i Es un sueño hecho realidad!		
				It is the most exciting thing	i Es lo más emocionante que he visto		
				I have ever seen!	jamás !		
				It has been the most	i Ha sido la experiencia más		
				important / unforgettable	importante / inolvidable de mi vida !		
				experience of my life!			
				I have enjoyed it a lot	i Lo he disfrutado muchísimo!		

