

## Knowledge Organiser Booklet

Year 9 Summer 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.
St					
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	¥ ₩ ₩		သိုင်		







'The combined works of Sassoon, Owen, Brooke and other poets of The Great War has come to be known as a sacred national text.' David Roberts 'My subject is war and the pity of war.' Wilfred Owen.

Wilfred Owen 1893 – 1918			Siegfried Sassoon 1886 – 1967		Rupert Brooke 1887 – 1915	
Owen was influenced by the romantic poets of Keats, Byron, Shelly, Coleridge and Wordsworth. Owen joined the British army in 1915. His first experience of the war was in hospitals treating the wounded soldiers - often without anaesthetic. Wilfred Owen was invalided out of the army in 1916 suffering from shell shock and sent to Craiglockhart where he met Sassoon. Owen returned to the front in 1918 and was killed in battle a week before Armistice. His parents received a telegram on Armistice day, as the bells were ringing in celebration at the end			<ul> <li>Sassoon joined the British Army as soon as it looked like World War 1 was imminent. In 1915 he was sent to France.</li> <li>Siegfried Sassoon was an incredibly brave and effective soldier. He was nicknamed 'Mad Jack' for his courage. In 1916 he received the Military Cross for gallantry.</li> <li>In 1917, following the death of one his friends, Sassoon refused to return to duty from leave. Rather than court martial a hero, parliament sent him to Craiglockhart.</li> <li>Sassoon returned to the front line in 1918, but was shot in the head by a British soldier who thought he was a German. He returned to Britain to recover and left the army in 1919. He lived till he was 80.</li> </ul>	Brooke was described by Yeats as 'the most hands man in England.' Brooke joined the Royal Naval Division shortly before outbreak of World War 1 and was sent to Belgian in In 1915, he set sail for the Dardanelles. On board s developed septicaemia from a mosquito bite. He we buried on a Greek island. Brooke caught the optimism of the opening month the war with his wartime poems, which expressed idealism about war that contrasts strongly with populished later in the conflict.		
Comparative VocabularyWorld War 1 went frAdditionallyMeanwhileEuropean powers anAs well asNeverthelessEuropean powers anAt the same timeOn the other handWhen war broke outCompared toOn the contrarySecretary of State forCorrespondinglyYetbegan a massive recrFurthermoreHowever2.5 million men hadJust asNonethelessThe recruits famoushLikewiseIn contrastWW1 was predominantMoreoverUnlikewhere soldiers livedSimilarlyEven soto either army. TrendDespite thatConverselyDevastating new tech		World War 1 went fr European powers and When war broke out, Secretary of State for began a massive recru 2.5 million men had v The recruits famously WW1 was predomina where soldiers lived a to either army. Trenci Devastating new tech Mental bealth issues	om 28 July 1914 – 11th November 1918. It was a global conflict involving the I their empires. Britain had a small army of around 250,000 professional soldiers. Lord Kitche War told the government that Britain needed at least one million men. The g uitment drive. In the first month over 500,000 men had signed up. By March 'olunteered to join 'Kitchener's Army'. / thought the war would be a fun adventure and they would be home by Chris antly fought in the trenches. Trenches were long, narrow ditches dug into the all day and night. In the middle, was No Man's Land, so-called because it did n h warfare was harsh and the soldiers endured appalling conditions. mologies and weapons including mustard gas were used.		Famous War PoemsHomer, The Iliad 8th Century BCAnonymous The Battle of MaldonAnglo SaxonTennyson The Charge of the LightBrigade 1854Hardy Drummer Hodge 1899Brooke The Soldier 1914McRae In Flanders Fields 1915Graves Two Fusiliers 1917Sassoon The Hero 1917Owen Exposure 1917Douglag Aristographic 1942	
		Between 1914 and 19 symptoms of shell she	Dougias Aristocrats 1943 Hughes Bayonet Charge 1957 Duffy War Photographer 2004 Turner The Hurt Locker 2005			





## Year 9 War Poetry Vocabulary Lists

civilian	terrain	ceremonial	honourable
futile	brutal	patriotic	sacrifice
grim	accusation	victorious	triumph
introspective	coward	participated	aftermath
dispute	discharged	commemorate	scepticism
state	wounded	sacred	virtue
poignant	glorious	propaganda	trudge
dialect	fallen	pride	trauma
dugout	atrocity	enlist	noble

## **Block 17 – Linear Equations and Inequalities**





	Lines, curves, surfaces that are always the same distance apart and will never meet.				
Parallel	$\bigcirc$				
Perpendicular	A line that is at right angles to another line.				
Intercept	To cut a line, curve or surface with another.				

Definition Latin: <i>in-</i> 'not' <i>œquus</i> 'even, level' Relationship between two expressions that are not equal.	Characteristics         Expressions can be connected with the following signs:         » > Greater than       [exclusive]         » ≥ Greater than or equal to       [inclusive]         » < Less than       [exclusive]         » ≤ Less than or equal to       [inclusive]         » ≠ Not equals to       [inclusive]
Examples 5 > -2	uality Non-examples
$x \le 12$ $-3 < y \le 5$	x = 5
$x < -1, x \ge 8$ $a \neq b$	4x = 2x + 5 $-5 > -1$
2x - 7 < x + 6	

## **Block 17 – Linear Equations and Inequalities**



	Linear	inear To form a [straight] line.		Inequality	A relationship between two expressions that are not equal.
	Simultaneous	To happen at the same time.		Region	The section of the coordinate grid that is defined by the inequality.
ľ	Intercept	To meet at.		Axis	A fixed reference line. <i>Plural 'axes'.</i>
	Intersect	To cross over.			
	Intersection	The point where two lines cross.			



## **Block 18 – Geometry of Triangles One**





## **Block 18 – Geometry of Triangles One**

![](_page_7_Picture_2.jpeg)

![](_page_7_Figure_3.jpeg)

![](_page_7_Figure_4.jpeg)

![](_page_8_Picture_1.jpeg)

## Biology Topic B2 Cell Division

Section 1. Micro			Section 4: Ste	m Cells		
	The degree by which an object	t is <b>enlarged</b> .	Stem Cell	Properties	Uses	
Magnification	Magnification = <u>size of in</u> size of rea	nage I object			Therapeutic cloning –	
Resolution	The ability of a microscope to	distinguish detail.	Embryonic stem	Can divide into <b>most types</b> of	embryonic stem	
Light microscope	ght microscope Basic microscope with a maximum magnification of 1500x.			cell.	cells produced with same genes as	
Electron microscope	Microscope with a much <b>high</b> 000x) and resolving power that means that it can be used to a	er magnification (up to 500 an a light microscope. This study cells in much finer detail.	Can divide into a <b>limited</b>		patient. <b>No</b> rejection.	
Section 2: Order Unit Prefix	rs of Magnitude Size in metres	Standard Form	Adult stem cell	<b>number of cells</b> e.g. bone marrow stem cells can form various blood cells.		
Centimetre (cm) Millimetre (mm)	0.01m 0.001m	<u>10<sup>-2</sup>m</u> 10 <sup>-3</sup> m			Clone rare species	
Micrometre (µm)	0.000001m	10 <sup>-6</sup> m Meristem		Found in plants. Can differentiate (divide) into <b>any</b>	extinction. Crops	
Nanometre (nm)	0.00000001m	10 <sup>-9</sup> m		<b>type</b> of plant cell.	features can be clones	
Section 3: Mitos	is and the Cell Cycle		Pros and Cons of Using Stem Cells			
Number of <b>sub-c</b> increase.	<b>cellular structures</b> (e.g. <b>ribo</b> s	somes and mitochondria)	Pros Treatment of diseases such as diabetes, dementia			
Number of chror	nosomes double.		Come	is. Can <b>transfer</b>		
One set of chror	nosomes is pulled to each en	d of the cell.	Cons viruses held within cells.			
The nucleus div	ides.					
Cytoplasm and	cell membranes divide to fo	rm two <b>identical</b> cells				
Mitosis	ation + Hitosis	Two diploid cells		Growth, increase in sub-cellular structures DNA replicates. Chromosom e number doubles Mitosis (cell division) More growth	Cell cycle	

![](_page_9_Picture_1.jpeg)

## Chemistry Topic 2 Periodic Table

Section 1: Perio	dic Table
Group	Elements in the <b>same vertical column</b> are in the same group. Elements in the same group have the <b>same number of electrons in their outer shell</b> , and therefore <b>similar properties</b> .
Period	Elements in the <b>same horizontal row</b> . The atomic number increases by one moving across the period from left to right.
Metal	Elements that react to form positive ions (except Hydrogen). Left and centre of periodic table
Non-Metal	Elements that react to form negative ions. Right hand side of periodic table.
Mendeleev	Was able to make a relatively accurate periodic table by <b>leaving gaps for</b> <b>undiscovered elements</b> and <b>re-arranging some elements</b> (Mendeleev could only measure relative atomic mass, not atomic number). Hence he arranged the elements in <b>order of mass</b> number and <b>predicted the properties</b> of the elements in the gaps

## Section 2: Groups of the Periodic Table

Sub-atomic particle	Properties	Trends	Reactions
Group 0 (Noble Gases)	Unreactive and do not form diatomic molecules.	Boiling point increases going down the group.	Very unreactive because they have full outer shells.
Group 1 (Alkali Metals)	<b>Reactive</b> because they can easily lose their one outermost electron. Always form ionic compounds Low density	Reactivity increases going down the group. Melting points and boiling point decrease going down the group.	With water: Metal + water → Metal hydroxide + hydrogen With oxygen: Metal + oxygen → Metal oxide With chlorine: Metal + chlorine → Metal chloride
Group 7 (Halogens)	Low melting points and boiling points. Poor conductors of heat and electricity. Form diatomic molecules	Reactivity decreases going down the group. Boiling point and melting point increase going down the group.	A more reactive halogen can displace a less reactive halogen from a solution of its salt. Chlorine + sodium bromide → sodium chloride + bromine

![](_page_9_Figure_6.jpeg)

Elements in the modern

Group – Vertical column Period – Horizontal Row Metals are on the left, nonmetals on the right.

![](_page_10_Picture_1.jpeg)

## Physics Topic P2 Energy transfer by heating

Section 1: Key terms       S         Thermal       A measure of how good something is at productivity         transferring heat by conduction       Conductivity		Section 3: Specific heat capacity Putting the same amount of heat into some materials gives a bigger temperature rise than in other materials. The specific heat capacity of a substance is the energy paeded to raise			
	Thermal insulators reduce energy	the <b>temperature</b> of a mass of <b>1kg</b> by a temperat Investigations show that when a substance is h		temperature of <b>1°C</b> . nce is heated, its temperature rise depends upon	
(Thermal) Insulator	transfers (prevent heat loss to surroundings and hence have a low thermal conductivity)	three factors: Amount of energy supplied to it	ncreases more as more energy is supplied.		
Good therma Conductor	Good at <b>transferring heat</b> energy by conduction.	Mass of the substance	the substance The greater the mass the more slowly its temperatur increases when its heated.		
Specific heat capacity	The specific heat capacity of a substance is the <b>amount of energy</b> needed to change the <b>temperature of 1kg</b> of the substance by <b>1°C</b> . Its units are J/kg/°C	What the substance is	Metals tend to metals. Wate takes less energy metal by 1°C th mass of water by	have <b>lower specific heat capacities</b> than <b>non-</b> <b>r</b> has a <b>high specific heat capacity</b> . Hence it y to raise the temperature of a block of aluminium han it takes to raise the temperature of the same y 1°C.	
Joulemeter Energy meter (measures energy supplied)		Measuring specific he	at capacity	A metal block of <b>known mass</b> is heated. A	
Section 2: E	Energy transfer by conduction			<b>joulemeter</b> is used to <b>measure the energy</b> supplied $\Delta E$ and a <b>thermometer</b> to <b>measure</b>	
The higher higher the across the m	the thermal conductivity of a material the <b>rate of energy transfer</b> by <b>conduction</b> aterial.	Joule- meter		the temperature rise $\Delta \theta$ . The measurements are then inserted into the	
Metals are the best conductors of heat energy, Copper is a better conductor than steel.		Power supply	_	equation and used to calculate the specific he capacity: $\Delta E = m \times c \times \Delta \Theta$	
Non-metals	<b>Non-metal</b> material (like wool and fibreglass) are the <b>best insulators</b> .	Material block	Insulation	Energy (J) Specific heat Change in Mass (kg) Capacity temperature	
Factors affe	ecting insulation			(J °C <sup>-1</sup> kg <sup>-1</sup> ) (°C)	
Thickness of material	The thicker the material the better the insulation.	<b>Storage Heaters</b> Storage heaters <b>use ele</b>	ectricity at night	t (off peak hours) to <b>heat special bricks</b> (which	
Thermal The lower the thermal conductivity the conductivity better the insulator.		have a high specific hea up and cool down. Hen heater element is off	t capacity). The b ce during the day and cool down ov	ricks <b>store</b> lots of <b>energy</b> and <b>take time</b> to heat (peak hours) they <b>release heat slowly</b> when <b>the</b> (rer a <b>longer time</b>	

![](_page_11_Picture_1.jpeg)

## Physics Topic P2 Energy transfer by heating

#### Section 6: Infrared radiation (Triple only) Section 4: Heating and insulating buildings The Sun emits all types of electromagnetic radiation. Infrared Homes are heated by electric or gas heaters, oil or gas central heating systems radiation consists purely of electromagnetic waves of a certain range or solid fuels in stoves or fireplaces. A **poorly insulated house loses** more of frequencies. The **hotter** an object is, the **more infrared** energy and so costs more to heat. It also means that more carbon dioxide radiation it emits in a given time. is released into the environment. What happens to infrared waves when they strike different How to prevent heat loss from a house surfaces. Contains **fibreglass** which Dark matt surfaces absorb infrared radiation much better than reducina traps air, Loft insulation light glossy surfaces, silvered surfaces reflect nearly all heat convection. Air is a good Loft radiation falling on them. Dark matt surfaces also emit more Insulation insulator. infrared radiation. Traps air pockets in gaps Cavity wall Double which is a good insulator insulation thermometer thermometer Glazina Cavity wall Double glazed Traps air in gaps insulation windows between glass. Aluminium wate Aluminium foil foil behind water Reflects radiation. radiators behind radiators Thicker bricks have a External walls with thicker bricks tube covered tube painted with shiny conductivity. metal foil Section 5: Infrared radiation Key terms (Triple only) **INFRARED LAMP** Transverse waves that travel at In the experiment above, the infrared lamp **radiates energy** to the Includes radio, 300,000,000 m/s. Electromagnetic radiation test tubes. The **black painted tube absorbs** most of the energy microwave, infrared, visible, ultraviolet, (and its temperature increases faster) whereas the shiny foil X-ray and gamma waves. reflected most of the energy that reached it. An electromagnetic wave. Emitted Infrared radiation by warm objects. Also known as heat Absorption and emission of infrared radiation or thermal radiation. The temperature of an object will increase if it absorbs more A body that absorbs all the radiation radiation than it emits. Black body that hits it. The **Earth's temperature depends** on a lot of factors like the The **radiation emitted** by a **perfect** absorption of infrared radiation. Greenhouse gases in the Black body radiation black body atmosphere (CO<sub>2</sub>, CH<sub>4</sub> & H<sub>2</sub>O) **absorb infrared radiation** contribute the preventing it escaping into space. This process is known as the aases that to greenhouse effect and makes the Earth warmer than it would greenhouse effect by absorbing Greenhouse gases infrared radiation be if these gases were not present in the atmosphere.

![](_page_12_Picture_1.jpeg)

August 1934

March 1936

March 1938

March 1939

August 1939

September 1939

May-June 1940

December 1941

January 1943

6 June 1944

7 May 1945

2 September 1945

June 1941

September 1938

1935

Key Dates

Sudetenland.

turns.

D-Day landings

Armistice declared, End of World War One.

USSR and El Alamain in North Africa. The tide

Germany surrenders. Victory in Europe (VE).

Japan surrenders, Victory in Japan (VJ).

Treaty of Versailles signed and ratified.

## World War Two

Year 9 History: Knowledge Organiser – World War Two (1939-1945)

![](_page_12_Picture_4.jpeg)

#### Key Words

Cause - An event which makes another event happen

Long-term cause - A cause which took place a long time ago / had been taking place over a long time.

Short-term cause - A cause which happened just before the event it triggered e.g. assassination of Franz Ferdinand.

Anschluss - Term meaning that Germany and Austria were united. This was forbidden under the Treaty of Versailles.

Conscription - Forcing men to join up to the armed forces.

Czechoslovakia - Country which existed from 1918-1993. It included Czechia/Czech Republic and Slovakia.

D-Day - Day when British and US troops invaded France to fight the Nazi forces and liberate Europe.

Dunkirk - Famous retreat for the British where soldiers had to flee France in whatever boats they could find.

Führer - literally means 'leader'. Nazis would call Hitler their leader.

Great Depression - Economic crash of the 1930s which resulted in unemployment, hunger and homelessness

Nazi-Soviet Pact - treaty between Hitler (Germany) and Stalin (USSR/Russia) which agreed they would both invade and split Poland down the middle at the Oder-Niesse line.

Operation Barbarossa - Name of the Hitler's invasion plan of the USSR (Russia).

Terms - The rules which have to be followed in a peace treaty.

Treaty of Versailles - Peace treaty signed after World War One. The terms were very harsh to Germany.

Wall Street Crash - Event in the USA where the stockmarket crashed. This created the Great Depression.

#### Key People

Woodrow Wilson – President of the USA 1913-1921. Attempted to create peace during and after WW1.

![](_page_12_Picture_23.jpeg)

George Clemenceau – Prime Minister of France 1917-1920 Wanted to destroy Germany through Treaty of Versailles.

David Lloyd George - Prime

Minister of Britain 1916-1922.

Wanted to balance punishing

(Russia). Ally of Germany from

for his 'we will fight them on the

the USA 1941-1945.

of communism in Europe.

![](_page_12_Picture_25.jpeg)

![](_page_12_Picture_26.jpeg)

Adolf Hitler – Austrian leader of the Nazi Party from 1921 and of Germany from 1933-1945, Failed artist, soldier in WW1, responsible for the Holocaust.

![](_page_12_Picture_28.jpeg)

Neville Chamberlain – Prime Minister of Britain from 1937-1940. Famous for policy of Appeasement and mistakenly claiming he had 'Peace in our time' with Hitler.

![](_page_12_Picture_30.jpeg)

Wall Street Crash. Start of Great Depression. Adolf Hitler becomes Chancellor of Germany. Adolf Hitler becomes Führer of Germany. Hitler reintroduces conscription. Hitler marches into the Rhineland. Hitler annexes Austria (Anschluss). Munich Agreement. Chamberlain's 'Peace in our time' statement. Hitler takes over the Hitler takes over the whole of Czechoslovakia. Hitler and Stalin sign the Nazi-Soviet Pact (sometimes called the Molotov-Ribbentrop Pact) Hitler and Stalin invade Poland, Britain declares war on Germany. Hitler invades France. France surrenders. Britain retreats at Dunkirk. throughout the world. Operation Barbarossa sees German troops invade the USSR (Russia). Japanese bomb Pearl Harbour in Hawaii. USA enters the war. Germany loses the Battle of Stalingrad in the

## World War Two

#### Year 9 History: Knowledge Organiser – World War Two (1939-1945)

![](_page_13_Picture_3.jpeg)

#### Causes of WW2

#### **Treaty of Versailles**

- Germany was forced to accept the Treaty. They called it the Diktat.
- Germany had to pay £6.6 billion in reparations to Britain and France; they were not allowed an air force, submarines or tanks; they were only allowed 100,000 soldiers.
- Germany lost a lot of land e.g. Alsace-Lorraine which went to France; Posen which went to Poland; and the Sudetenland which went to Czechoslovakia. Germany was not allowed to march troops into the Rhineland as this was meant to be demilitarised.
- The League of Nations was set up as part of the Treaty of Versailles.
   Ultimately it failed to prevent war because it had little power.

#### The Great Depression

- The Wall Street Crash in 1929 created the Great Depression. Millions worldwide were unemployed, homeless and hungry. This led to the growth of extremism.
- In Germany the Nazi Party became more popular, allowing Hitler to become Chancellor of Germany in January 1933 and later supreme leader (Führer) of Germany.

#### Appeasement

- During the Great Depression, Britain and France were focused on the suffering of their own people and the threat of strikes. This meant they cut back on defence spending.
- The policy of Appeasement meant that Britain and France tried to give Hitler some of what he wanted in the hope they could prevent war.
- They allowed him to march into the Rhineland in 1936, to unite with Austria in 1938, and gave him the Sudetenland in 1938. All of this just increased Hitler's belief that no-one would stop him.

#### Nazi Soviet Pact

- Stalin, the leader of the USSR (Russia) had tried to ally with Britain and France but they spurned him.
- Instead he signed an agreement with Hitler in 1939 which agreed they would not attack each other and would split Poland.

#### Key Words

Armistice - An agreement to stop fighting/ceasefire.

ATS – Auxiliary Territorial Service. Women's branch of the army. Not allowed to fight on frontline but fulfilled nearly all other roles.

Blitzkrieg – German war tactic to attack quickly and with maximum force to overrun the enemy

The Blitz – The bombing of Britain by Germany, particularly in London and other cities like Leicester, Birmingham and Coventry.

Demilitarised – No German soldiers were meant to be allowed this area.

Diktat – The German name for the Treaty of Versailles. It had been dictated (forced upon them).

Dominions – Countries in the British Empire who decided to join the war or not. There were self-governing dominions such as Australia and those who were controlled by London such as India.

League of Nations – Forerunner of the United Nations. Countries were meant to join and to discuss their problems rather than resort to war.

Maginot Line – Line of defences built up by France to attempt to prevent a German invasion

RAF – Royal Air Force – the air force in Britain made up of British but also a number of Polish airmen.

RIAF - Royal Indian Air Force.

Rhineland - An area of Germany which bordered France.

Stab in the Back Myth – Myth spread by the Nazis that Germany could have won WW1.

WAAF – Women's Auxiliary Airforce. Included female pilots who would deliver aircraft as well as fulfilling administrative roles.

![](_page_13_Picture_35.jpeg)

![](_page_13_Picture_36.jpeg)

![](_page_13_Picture_37.jpeg)

![](_page_13_Picture_38.jpeg)

![](_page_13_Picture_39.jpeg)

![](_page_13_Picture_40.jpeg)

These films have been selected as they are Certificate 12 or under. Please be aware that they may still have distressing scenes and it is advised parents watch all films before showing them to their children to assess their appropriateness.

## World War Two

#### Year 9 History: Knowledge Organiser – World War Two (1939-1945)

#### The Phoney War

- Despite Britain's declaration of war on Germany in September 1939 there was very little fighting from then until May 1940.
- 9<sup>th</sup> May 1940 the Phoney War ended with the invasion of France.

#### French Defeat

- Germany used the tactic of Blitzkrieg to attack fast and hard when the French were least expecting it.
- The French had set up the Maginot Line of defences along their German border but these were useless against the German attack through the Netherlands and Belgium.
- The Germans used their Panzer units to quickly overwhelm allied forces.
- By 16<sup>th</sup> May 1940 the key French city of Sedan had fallen to the Germans. The British ordered a retreat after they failed at Arras.
- From 26<sup>th</sup> May to 4<sup>th</sup> June 1940 the British forces retreated from Dunkirk – over 338,000 soldiers fled to Britain, leaving France on its own.
- On 25<sup>th</sup> June France surrendered and became ruled by the Vichy Government.

#### The Battle of Britain

 From 10<sup>th</sup> July to 31<sup>st</sup> October 1940 Hitler's air force tried to invade Britain. They were fought off by the RAF.

#### The Blitz

- London and other major cities were bombed by Hitler's forces during WW2.
- Many children were evacuated from cities like London to the countryside to protect them.

#### Home Front

- Britain's Home Front included women taking on men's roles like firefighters, Air Raid Patrol (ARP) wardens, as well as non-combat military roles.
- Rationing was also a feature of life on the Home Front due to German blockades of food supplies. The Women's Land Army was set up to deal with this crisis. Items like clothes and shoes were also rationed.

#### Key Words

Evacuation – Sending of children from the cities to the countryside to protect them from bombings by German aircraft.

Panzer - German tank, heavily armoured.

Vichy France – The area of France run by the French government which had surrendered to the Germans.

#### The Role of India

- Over 2.5 million Indian men (Muslims, Hindus and Sikhs as well as other religions) volunteered to serve Britain in WW2.
- Many fought against the Japanese in Burma but also in North and East Africa, Italy and Greece.
- The Royal Indian Air Force fought against Japanese pilots and the Royal Indian Navy fought in the North Atlantic and Mediterranean against Germany and Italy. There were 40,000 Indian servicemen in the British Merchant Navy.

#### The West Indies

- Thousands of men from British colonies in the Caribbean such as Jamaica volunteered to fight.
- However, many Black men were not allowed to fight in the British army.
- Approximately 5,500 West Indian RAF personnel came to fight for Britain 1944-1945. West Indian women also served in the WAAF.

#### Other countries

 629,000 soldiers came from Canada; 413,000 from Australia; 136,000 from South Africa; 128,500 from New Zealand.

#### VE & VJ Day

 Germany surrendered 7<sup>th</sup> May 1945 soon after Hitler's suicide. Japan on 2<sup>nd</sup> September 1945 after the USA dropped the atomic bomb.

![](_page_14_Picture_37.jpeg)

![](_page_14_Picture_38.jpeg)

![](_page_14_Picture_39.jpeg)

MIHIR BOSE

![](_page_14_Picture_40.jpeg)

These books have been selected to give a range of choices. The top two are fiction for children; the other four are history books for adults so will deal with adult themes.

The good news is that more books have been written on WW2 than anything else – so go wild in your local library or bookshop!

![](_page_14_Picture_43.jpeg)

![](_page_15_Picture_1.jpeg)

## The Holocaust / Shoah 1933-1945

Year 9 History Knowledge Organiser – The Holocaust / Shoah 1933-1945

![](_page_15_Picture_4.jpeg)

Key Dates Key Words 70 CE (AD) The Romans attack Jerusalem. Many Jewish Holocaust – The word comes from the Greek meaning a 'burnt people are forced to flee to other countries. offering'. Jewish people in the years before the Roman attack on Jerusalem in 70CE used to burn offerings to God. This term is 1190 The whole Jewish community in York (around considered highly offensive by many Jewish people as it implies that 150 men, women and children) are herded into God was pleased with the murder of the Jews by the Nazis. Clifford's Tower and burned alive. Shoah – The word comes from Hebrew and means 'catastrophe' or a 1290 King Edward I forces Jewish people out of terrible tragedy'. This is the term that many Jewish people prefer to use England as it more closely expresses the impact the murder of 6 million Jewish The Black Death hits Europe, Many Jewish people by the Nazis had. 1346-1353 people are falsely blamed for spreading it Unfortunately, many academic texts, documentaries and popular and are murdered. culture references still use the term Holocaust so we include it in our unit for ease of reference and to acknowledge that other groups of Shakespeare writes The Merchant of Venice 1596-1598 which demonises a Jewish character. people were also murdered at this time. Shylock. Anti-Semitism – Hatred of Jewish people, Jewish culture, and Jewish 1837-1839 Charles Dickens writes Oliver Twist, He religion. includes a Jewish character, Fagin, who is a National Socialist German Workers Party (Nazi Party) - Full name for thief and a murderer and who forces boys the political party led by Adolf Hitler from 1921-1945. to steal from people. Treaty of Versailles - Treaty signed by the German government in 1919 Alexander II, Tsar of Russia, encourages 1880s which punished Germany for World War One. people to murder Jewish people and burn their houses to force them out of the Armistice – The ceasefire signed by Germany on 11<sup>th</sup> November 1918 country. which ended World War One. 1914-1918 First World War, Adolf Hitler is a Lance Stab in the Back myth - Belief spread by Hitler and the Nazis that Corporal in the Bavarian Army. Germany could have won the war but it was betrayed when the German government signed the Armistice and the Treaty of Versailles. Treaty of Versailles signed by Germany's 1919 Hitler blamed Jews and communists for this. government. Adolf Hitler joins the German Workers' Party (DAP). Communists – A group of people who believe that wealth should be shared out equally by the government. Some high-profile communists Adolf Hitler takes over the DAP, re-names it 1921 in Russia were Jewish so Hitler lumped them all together. the Nazi Party and submits his 25 Points.

## Key People

Adolf Hitler – Soldier in World War One. Leader of the Nazi Party from 1921-1945. Chancellor of Germany from 1933 and Führer of Germany from 1934-1945.

![](_page_15_Picture_8.jpeg)

Heinrich Himmler – Leader of the SS (Hitler's private bodyguard and later his toughest and most loyal troops). The SS guarded concentration camps and carried out the mass murder of Jewish people.

![](_page_15_Picture_10.jpeg)

Hayim Nahman Bialik -Jewish poet who called for Jews to resist their persecution. Lived in Germany so saw anti-Semitism first hand. Died in 1934. Now Israel's national poet.

Ernst von Rath – Nazi

Herschel Grynszpan – 17

who shot Ernst von Rath.

Kristallnacht

![](_page_15_Picture_12.jpeg)

![](_page_15_Picture_13.jpeg)

![](_page_15_Picture_14.jpeg)

Dr Karl Brandt – Hitler's personal doctor and the creator of the T4 programme which murdered 300,000 disabled and mentally ill patients.

![](_page_15_Picture_16.jpeg)

## The Holocaust / Shoah 1933-1945

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## Year 9 History Knowledge Organiser – The Holocaust / Shoah 1933-1945

	Key Dates	Key Words	Key People
1929	Wall Street Crash plunges Germany and the rest of the world into the Great Depression.	Twenty Five Points – Hitler's manifesto for the Nazi Party. It included anti-Semitic ideas such as 'no Jew can be a citizen of Germany'.	Annalies (Anne) Frank – German Jewish teenager who
1933	The Nazi Party win the elections and Hitler becomes Chancellor of Germany. Persecution of Jews and other groups begins.	Mein Kampf – Hitler's autobiography written in 1924 which laid out his theories about the purity of race and how to murder Jewish and other people he thought were 'undesirable'.	experience of having to hide from the Nazis in an attic in Amsterdam, the Netherlands.
1934	Hitler becomes Führer of Germany. He now has complete power to make laws and imprison opponents.	Untermensch – Term used by the Nazis to describe anyone they believed was inferior to them.	She died in Auschwitz in 1945. Sophie Scholl – German student and leader of the
1935	The Nuremberg Laws exclude Jewish people from citizenship in Germany.	Aryan – The 'pure' German race, according to the Nazis. They would have blonde or light brown hair and usually have blue or green eyes.	anti-Nazi leaflets in Munich. She was executed in 1943 by
1936	Berlin Olympics includes one Jewish person, Helene Mayer, on the German team.	Czechoslovakia and Russia. Hitler believed they were inferior.	AFTER
1938	Kristallnacht – synagogues are burnt, and over 30,000 Jewish men and boys arrested and sent to concentration camps.	T4 Aktion Programme – Systematic murder of people who were mentally ill, had severe learning difficulties, or who were physically disabled. It ran from 1939-1941 in Germany but continued throughout the war in other countries. People were murdered in their own	THE WAR
1939	Hitler invades Poland. The T4 programme starts – murdering 300,000 mentally ill and physically disabled people.	hospitals by their doctors and nurses. <b>Final Solution</b> – Known as the 'Final Solution to the Jewish Question' – a decision reached in 1941 (although confirmed in 1942 in the	The Diary of ANNE FRANK
1940	Hitler invades France and Holland. Warsaw ghetto founded with more than 460,000	Wannsee Conference) that Jewish people (and other 'untermensch') should be destroyed in concentration camps.	ABLIER CONVERTIGUES ACTIONS LIZ KESSLER
1941	The Final Solution is created, authorising	Zyklon B – The gas used to exterminate people in the gas chambers in death camps such as Auschwitz-Birkenau.	WHEN THE Provide
	the systematic murder of 6 million Jewish people. The Nazis also continue the systematic murder of disabled, homosexual, Slav, Gypsy, Roma, Traveller communities	Concentration Camp- a prison camp used to imprison people who opposed Hitler and exploit them as workers to keep the war effort going.	WORLD WAS before OURS COURS COURS COURS
1945	throughout Europe. Hitler commits suicide. WW2 ends.	<b>Death /Extermination Camp</b> – a prison camp, like a concentration camp, but established with the aim of murdering people.	These books have been selected as suitable for children aged 11-14 years. However, there will be parts of these books which can distress and lead to
1945-1946	Nuremberg Trials.	Auschwitz-Birkenau – most notorious camp in Poland, near Krakow. Approximately 1.1 million people were murdered here.	big and difficult questions. It is recommended that parents read and discuss these with their children.

## The Holocaust / Shoah 1933-1945

Year 9 History Knowledge Organiser – The Holocaust / Shoah 1933-1945

![](_page_17_Picture_3.jpeg)

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#### Key Words

Einsatzgruppen – Groups of soldiers (often middle-aged and some former police officers) chosen to exterminate Jewish and other 'undesirable' people as the Nazis marched further into Eastern Europe.

Euthanasia – 'Mercy killing' – the Nazis believed that killing people who were 'undesirable' or members of the 'untermensch' was a mercy.

Fascism – The belief of the Nazis (and of the Italian government under Mussolini and the Spanish government under Franco during WW2) that war was good, men should be strong and brutal, and women should have children and stay at home. It also believed in the elimination of 'inferior' groups.

Gestapo – The Nazi secret police who would round up opponents and groups of people considered 'untermensch'.

Ghetto – Area in a city, such as Warsaw in Poland, used to concentrate Jewish people into one area and starve them or work them to death. Warsaw Ghetto was founded in 1940 and cleared in 1943 with its inhabitants being sent to extermination camps.

Resettlement – moving people to another location. This is what the Nazis claimed they were doing so that Jewish people did not panic. In actual fact they were being sent to extermination camps.

LGBTQ+ - Stands for Lesbian, Gay, Bisexual, Trans, Queer plus other groups. The Nazis wanted to eliminate anyone who was not heterosexual and willing to act in a way which fitted the Nazi's view of how men or women should behave. We don't have exact figures but it is estimated that around 50,000 people were exterminated by the Nazis. The majority of these were gay men.

![](_page_18_Picture_0.jpeg)

Kov/Vacabulary

# What are the challenges and opportunities facing Africa? Part 1

![](_page_18_Picture_2.jpeg)

## AFRICA IS NOT A COUNTRY.

N	ey vocabulary	
Triangle of Trade	The journey of exchange made of goods and slaves between Europe, the Americas and Africa.	
Colonisation	The action or process of taking over control over local people of an area.	
Cash crops	A crop produced for its commercial value rather than for use by the grower.	
Migrate	To move from one region or habitat to another according to seasons.	
	Biomes of Africa	

#### **Natural Resources**

Africa is rich in natural resources:

- It exports 16% of the world's uranium, used to produce nuclear energy.
- In 2011, Africa produced more than half of the world's diamonds and nearly 75% of the world's platinum.
- Africa has 10% of the world's oil and gas reserves.
- Africa is rich in forests, a source of major hardwoods.
- Nigeria and Libya are 2 of the leading oil producing countries in the world.

## The History of Africa.

#### The Slave Trade

- Between the 1600's and the 1800's, 12-15 million Africans were sold into slavery.
- Europeans bought people in West Africa in exchange for goods, developing a triangle of trade.
- Slavery was abolished from 1833.

#### The Legacy of Colonisation.

- African countries began to gain their independence from Europe in the 1960's.
- Many countries have found the road to a strong and stable nation difficult.
- The wealth of natural resources continues to be over-exploited by European business.
- The best agricultural land is still used to grow cash crops rather than growing crops to feed the growing population of Africa.

## "Africa is not poor, it is poorly managed" Ellen Johnson-Sirleaf, former president of Liberia.

# Biomes of Africa

#### Savanna Biome

These are found to the north

and south of tropical

rainforests. Savanna regions

have distinct wet and dry

seasons. This biome has lots of

wildlife within it however,

animals may migrate great

distances for food and water.

#### Is there a future for the

Desertification in the Sahel

- Droughts have occurred when the normally short rainy season is delayed or does not occur.
- Rains are very irregular in the Sahel along with rapid population increase, vegetation clearance and livestock overgrazing are causing the desert to spread southwards (desertification).

![](_page_18_Figure_29.jpeg)

![](_page_19_Picture_0.jpeg)

# What are the challenges and opportunities facing Africa? Part 2.

![](_page_19_Picture_2.jpeg)

#### AFRICA IS NOT A COUNTRY.

#### **Key Vocabulary**

Landlocked	A country or region that is entirely surrounded by land.
Exports	A good or service spent to another country.

![](_page_19_Picture_6.jpeg)

#### Urbanisation in Ethiopia.

Ethiopia has the second largest population in Africa with over 100 million people. The government is trying to develop the economy of this landlocked country. Although 80% of the population is still rural, urbanisation and economic development are accelerating fast. Much of the population is located in the capital city, Addis Ababa which is located centrally in the country.

People move to the city as they think they will be better off however, they end up living in slums which is becoming a big problem. Slums are often build illegally, they offer cheap rent but they have limited access to water and toilets. This can lead to a spread of disease and lots of problems for the government to solve.

## Government Projects to solve some of the problems in Addis Ababa:

- Building: Hundreds of thousands are built every year. These new houses are bought-t—own, and opportunities to live in them are distributed by a public lottery.
- Infrastructure: The Light Rail Transit, the first in Africa, opened in 2015. Built with Chinese support, it cost US\$475 million.
- Business: Attract multinational companies to build factories in the city offering incentives and cheap labour.

![](_page_19_Figure_14.jpeg)

#### Trade between China and Africa.

- 15% of Africa's exports, mainly natural resources, go to China.
- China provides 21% of Africa's imports, including a range of machinery, transportation, communications equipment and manufactured goods.
- China is funding the building of factories and construction of roads, railways, ports, airports, hospitals, schools and stadiums, spending billions of dollars a year in Africa.
- More than 1 million Chinese, most of them labourers and traders, have moved to the continent in the past decade.

The structure of the Earth				Types of volcanoes				Volcanic Hazards		- Anno - Anno	h
The	Crust	Varies in thickness (5-10km beneath the	Shield	Made of basaltic rock and form gently sloping cones from		Vent Gentle slope of basaltic lava Magna	Ash cloud	Small pieces of pulverised rock a which are thrown into the atmos	and glass sphere.	acid eruption cloud eruption rain colum	prevailing wind
		ocean. Made up of serval large plates.		Location: hot spots and construct	ive margins.		Gas	Sulphur dioxide, water vapour a dioxide come out of the volcano	nd carbon	ash fall (tephra)	pyroclastic flow
The	Mantle	Widest layer (2900km thick). The heat and		Eruptions: gentle and predictable		Shield volcano	Lahar	A volcanic mudflow which usual	ly runs	pyroclastic dome	landslide
		pressure means the rock is in a liquid state that is in a state of convection.	Composite	Most common type found on land	d. Created by layers of ash	Ash Vent Magma Baanch pipe	Pyroclastic	down a valley side on the volcan A fast moving current of super-h	io. Jeated gas	flow	1 CXB
The	Innorond	Hottost section (E000 degrees) Mostly made		Location: Destructive margins			flow	and ash (1000°C). They travel at	450mph.		
The Inner and outer Core		Acttest section (SUUD degrees). Mostly made of iron and nickel and is 4x denser than the crust. Inner section is solid whereas outer		Eruptions: explosive and unpredic	table due to the build of		Volcanic	A thick (viscous) lava fragment the	hat is	lahar	earthquakes
				pressure within the magma chamber.			bomb	ejected from the volcano.	conic Frunti		
	Convection Currents		Hotspots	These happen away from any plate boundaries. They occur because a <b>plume of magma rises</b> to eat into the plate above. Where lava breaks through to the surface, <b>active volcanoes</b> can occur above the hot spot. E.g. Hawaii.				Managing Vol		Monitoring to shair us	_
Tho	-						Small earthquakes are caused as magma rises up.		<sup>S</sup> Seismometers are used to detect earthquakes.		
due	The Lithosphere is divided into tectoric plates which are moving due to convection currents in the asthenosphere.										
1	Radioactive	decay of some of the elements in the core and	-	Case Study – Earthquake in an Ll	DC: Nepal earthquake, April 20	015	Temperate	ures around the volcano rise as activity increases.	Thermal in used to	naging and satellite cam o detect heat around a	neras can be volcano.
	mantle generate a lot of heat.		Causes     Pressure	ssure built up between the Indian and Eurasian plates at a COLLISION boundary. Pressure		oundary. Pressure	When a volcano is close to erupting it starts to		Gas san	nples may be taken and	chemical
2	When lower	parts asthenosphere heat up they become less	was rele	was released with no prior warnings, triggering a 7.8 magnitude earthquake. The focus was 15km below the surface (a shallow focus). The crust moved 3 metres in places.			Preparation				ui leveis.
	dense and si	lowly rise.	Ihe focu				Creating an exclusion zone around the volcano. Being ready and able to evacuate i			e residents.	
3	3 As they move towards the top they cool down, become <b>Effects</b> <b>more dense</b> and <b>slowly sink</b> . 547 landslides and avail One was on Mt Everest			Management		Having an em	ergency supply of basic provisions,	Trained	l emergency services an	id a good	
			547 landslide	des and avalanches were triggered. Short term emergency aid fr n Mt Everest and killed 12 people		from charities (Red		such as tood		communication system	1.
4	4 These circular movements of semi-molten rock are		8635 people	were killed	10 tonnes of blankets, 50 to	onnes of water, 2	Earthquake Management				
	convection currents     \$10 billion damage     tonnes of me       5     Convection currents create drag on the base of the tectonic plates and this causes them to move.     \$10 billion damage     The Nepalese		\$10 billion damage to		tonnes of medical supplies.		PREDICTING				
5			not acting quickly. Many res conducted by the public.	scue efforts were		Methods include: • Satellite surveying (tracks changes in the earth's surface)					

#### **Types of Plate Margins**

#### **Destructive Plate Margin**

When the denser plate subducts beneath the other, friction causes it to melt and become molten magma. The magma forces its ways up to the surface to form a volcano. This margin is also responsible for devastating earthquakes.

#### **Constructive Plate Margin**

Here two plates are moving apart causing new magma to reach the surface through the gap. Volcanoes formed along this crack cause a submarine mountain range such as those in the Mid Atlantic Ridge.

#### **Conservative Plate Margin**

A conservative plate boundary occurs where plates slide past each other in opposite directions, or in the same direction but at different speeds. This is responsible for earthquakes such as the ones happening along the San Andreas Fault, USA.

#### Collision Zones

Collision zones form when two continental plates collide. Neither plate is forced under the other, and so both are forced up and form fold mountains. These zones are responsible for shallow earthquakes in the Himalayas.

![](_page_20_Picture_10.jpeg)

Knowledge Organiser Unit 4 – Tectonic hazards

Earthquakes are caused when two plates become locked causing friction to build up. From this stress, the pressure will eventually be released, triggering the plates to move into a new position. This movement causes energy in the form of seismic waves, to travel from the focus towards the epicentre. As a result, the crust vibrates triggering an earthquake.

![](_page_20_Figure_12.jpeg)

Base from 'Instrument' and 'Weak' to

Limitations is that its subjective due to it

'Extreme' and 'Cataclysmic'.

being based on perception.

instruments.

#### How do v

point at which	damage wide localised as						
sure is released is	area. seismic waves						
ad the FOCUS.	travel vertically.						
How do we measure earthquakes?							
Mercalli Scale	Richter Scale						
Measures how much damage is caused,	<ul> <li>Is a scientific measurement based on</li></ul>						
based on observations, not scientific	the energy released.						

- Measured by seismometers using measurement from 1-10
  - Logarithmic each point up the scale is 10 times greater than the one before.

**Causes of Earthquakes** 

ethous include.	
Satellite surveying	(tracks changes in the e

- Laser reflector (surveys movement across fault lines) ٠
- Radon gas sensor (radon gas is released when plates move so this ٠ finds that)
- Seismometer
- Water table level (water levels fluctuate before an earthquake). ٠
- Scientists also use seismic records to predict when the next event will occur.

#### PROTECTION

You can't stop earthquakes, so earthquake-prone regions follow these three methodsto reduce potential damage:

- Building earthquake-resistant buildings
- Raising public awareness
- Improving earthquake prediction

![](_page_20_Picture_28.jpeg)

#### Earthquake proof buildings ideas

1. Counter-weights to the roof to help balance any swaying.	2. Roof made from reinforced cement concrete.
3. Foundations made from reinforced steel pillars, bail-bearings or rubber.	4. Windows fitted with shatter- proof glass to reduce breakage.
5. Lightweight materials that cause minimal damage if fallen during an earthquake.	<ol> <li>Ensure gas pipes have an automatic shut off to prevent risk of fire.</li> </ol>

![](_page_20_Picture_31.jpeg)

![](_page_20_Picture_32.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_21_Picture_2.jpeg)

CORE					
Time phrases	/Sequencers	Key ve	rb phrases	Connectives	
normally	normalement	I have	j'ai	but	mais
often	souvent	I have not	je n'ai pas de	and	et
usually	d'habitude	l am	je suis	because	car/ parce que
from time to time	de temps en temps	l am not	je ne suis pas	also	aussi
sometimes	quelquefois/parfois	I would like	je 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	ilya	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	je 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 addition	en plus
later	plus tard	you can	on peut +infinitive		
in the future	a l'avenir	you cannot	on ne peut pas +infinitive	Negatives	
yesterday	hier	it was	c'était	<b>`</b>	
last night	hier soir	it wasn't	ce n'était pas	nc	nejamais
last week	la semaine dernière	there was	il y avait	neve	er nepas
last year	l'année dernière	there wasn't	il 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 the	
after	après ça	if I was rich	si j'étais riche	nore tha	n pius que
before	avant	in an ideal world	dans un monde idéal	less tild	moins que
lastly	enfin / finalement	in my dreams	dans mes rêves		
Quantifiers/	Intensifiers	Ор	inions	la	lioms
very	très	In my opinion	à mon avis / selon moi	How awful !	Quelle horreur !
too	trop	I think that	je pense que	What luck !	Quelle chance !
quite	assez	l Like	j'aime	What a surprise !	Quelle surprise !
a bit	un peu	l love	j'adore	What an idiot!	Quel imbécile !
really	vraiment	I don't like	je n'aime pas	It's brilliant !	C'est le pied !
a lot	beaucoup	l hate	je déteste	It's not my thing !	Ce n'est pas mon truc !
		l prefer	je préfère	It's a waste of time!	C'est une perte de temps !
		My favourite is	ma/mon préféré(e) est	It's a waste of money!	C'est une perte d'argent !
		I find that	je trouve que		

## French

![](_page_22_Picture_2.jpeg)

CHALLENGE					
Time phrases/ Sequencers		Key ver	b phrases	0	pinions
today	aujourd'hui	you can see	on peut voir	for me	d'après moi
each/every	chaque	if it is	si c'est	I believe that	je crois que
currently	actuellement	there would be	il y aurait	according to	selon
the next day	le lendemain	there would not be	il n'y aurait pas de	I really hate	j'ai 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	je ne supporte pas
when I was little	quand 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	mon père me dit que
Quantifiers/Intensifiers		Negatives		I would say	je dirais que
					j'aime/j'adore ça
SO	si	nomore/longer	ne plus	I am for	je suis pour
rather	plutot	nothing	ne rien	l am against	je suis contre
extremely	extrêmement	no one/nobody	ne personne	I agree with	je suis d'accord avec
frankly	franchement	neithernor	ne ni ni	I disagree with	je ne suis pas accord avec
hugely	énormément			what I like is	ce que j'aime c'est
incredibly	incroyablement			it seems that	il semble que
				as far as is concerned	en ce qui concerne
Cor	nectives	Comparisons	/ Superlatives		dioms
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	même 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	ce 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 !

![](_page_23_Picture_0.jpeg)

![](_page_23_Picture_2.jpeg)

CORE					
Time phrases / Sequencers		Key verb phrases		Connectives	
normally	normally normalmente		tengo	but	pero
often	a menudo	I have not	no tengo	and	У
usually	generalmente	l am	soy / estoy	because	porque / ya que
from time to time	de vez en cuando	l 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	<b>voy a</b> + 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	Comparisons	
next	luego	it would not be	no sería	more than	mác (110
firstly	primero	if i was rich	si fuera rico/a	less than	manos 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	nions	Idioms	
Very	muy	In my opinion	en mi opinión	How great !	j Qué bien !
Тоо	demasiado	I think that	pienso que	How bad !	j Qué mal !
Quite	bastante	l like	me gusta(n)	How funny !	j Qué divertido !
A bit	un poco	l love	me encanta(n)	How cool !	j Qué guay !
so	tan	I don't like	no me gusta(n)	How boring / annoying !	j Qué aburrido! jQué rollo !
Really	adjective ending -ísimo/a(s)	I hate	odio	How dreadful !	j Qué horror !
A lot	mucho	l prefer	prefiero	It's crazy !	j Es una locura !
		My favourite is	mi favorito/a es	It's a waste of time!	j Es una pérdida de tiempo !
		l find it	me parece	It's a waste of money!	j Es una pérdida de dinero !

![](_page_24_Picture_2.jpeg)

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 <b>5</b> 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	l 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	increiblemente			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 !	j Basta de excusas !
whereas	mientras que	worst	peor	I am fed up !	j Estoy harto/a !
even if	aunque	the best thing is	lo mejor es	What a shame !	j Qué lástima !
additionally	asimismo	the most important is	lo más importante es	What a disaster !	j Qué desastre !
since	dado que / ya que	what I like the most is	lo que más me gusta es	It sounds funny /curious !	j Suena muy gracioso / curioso !
not at all	en absoluto			A dream come true !	j Es un sueño hecho realidad !
				It is the most exciting thing	j 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	j Lo he disfrutado muchísimo !

## **Unit 5: Effects of exercise**

![](_page_25_Picture_2.jpeg)

Key word	Description
Short term effects of	Physical changes that occur in the body when you begin exercising.
exercise	
Long term effects of exercise	Physical changes that occur in the body after months of following a training programme.
(physical)	
Heart rate	The number of times the heart beats per minute
Oxygen	A gas we breathe in and transport to our muscles and organs to use to create energy
Aerobic	Low intensity exercise than can be done for a long period of time
Anaerobic	High intensity exercise than can only be done for short time
Energy production	Using glucose and oxygen to create energy in the muscles and organs in the body
Respiratory rate	The number of breaths taken in one minute
Flexibility	The range of movement around a joint
Hypertrophy	A muscle increasing in size achieved through exercise
Stroke volume	The amount of blood ejected from the heart (left ventricle) per beat
Resting heart rate	The amount of times the heart heats per minute at rest (after lying down for 5 mins)
Efficient	Performing without wasting energy
Fitness	Being physically fit and healthy. Fitness components include cardiovascular endurance, muscular endurance, speed,
	flexibility, agility, power and strength
Coronary heart disease	A disease where there is a narrowing or blockage of the coronary arteries (blood vessels that carry blood and oxygen to
	the heart).
Diabetes	A health condition that affects how your body turns food to energy and your blood glucose can be too high.
Body mass index	Indicator of how healthy your weight is. Calculation: weight (kg) divided by height (m <sup>2</sup> )
Body composition	The percentages of bone, fat, muscle and water in your body
Energy balance	The balance of energy (calorie) intake with energy (calorie) expenditure
Calories	A unit of energy consumed from food or drink.

Short term effects of exercise	Long term effects of exercise
Increase in heart rate	Increase in heart size (cardiac hypertrophy)
Increase in respiratory rate	Improved fitness
Increase in oxygen delivery to muscles	Increased bone strength
Increase in temperature	Reduced risk of coronary heart disease
Increase in flexibility	Reduced risk of diabetes
	Improved body composition

## Computer Science

## **Introduction to Python**

![](_page_26_Picture_2.jpeg)

	Keywords	Common Mistakes		
Input	When the user enters data into a program	Total = number1 + number2	Capital letters in variables names	
Output	When the program displays data to the user	<pre>print(total)</pre>	and commands	
Variable	An area data can be stored whilst the program is running	Print(total)		
Concatenation	The operation of joining together two strings	number1 = 25	Spelling of variable names and commands	
Casting	When you convert from one data type into another	number2 = <mark>36</mark>		
Sequence	Instructions being executed in order	_total = numbr1 + number2	Prackats and bracos como in	
Selection	When a program can make a choice about which line to execute based on a condition	<pre>print("Hello World) print("Hello World)</pre>	pairs, make sure that they are opened and closed.	
Iteration	When a program is able to repeat blocks of code multiple times	butuc( Hello would		

Frequently used commands		Assignment Operators		Relational Operators	
command	comment	Description	Operator	Description	Operator
print()	Used to display to the screen	Assign	=	Equal to	==
input()	Allows user to enter value	Add then reassign	+=	Less than	<
int()	Converts value to integer				
if <criteria>:</criteria>	Selection statement used to give choices (or paths) that the program can follow depending on	Subtract then reassign	-=	Greater than	>
elif <criteria>: </criteria>	a decision.	Divide then reassign	/=	Not equal to	!=
else: 		Mod then reassign	%=	Less than or equal to	<=
while <criteria>: </criteria>	Condition controlled iteration, when you don't know how may iterations need to take place.	Integer divide then reassign	//=	Greater than or equal to	>=