Nottingham Girls' Academy



REVISION TOPIC GUIDE 2022-2023



Introduction Maths English **Trilogy Science** History Geography **Spanish** Sociology **Health and Social Care Creative I Media** Catering **OCR** sport Science **Business Studies Computer Science** Art

Introduction

 This has been designed to help you organise what you need to revise/work on/recap

- All your subjects are in one place to help you keep everything together.
- Use your subject hints/topic list everything you need to know for the subject you are revising for.

Tick it off/highlight when you are confident you have improved! This will improve your confidence

- Use the pages of the subject your revising for to think about HOW you are going to revise/learn (eg practise paper, times questions, Kahoot, flashcards etc)
- Stick any PLCs your teachers give you to the back of the relevant page

• Look at mock feedback progress sheet or talk you teachers about what you need to do to improve.

• We are all here to help:

• This is to help <u>you</u> organise <u>yourself</u> for <u>your</u> GCSE

MATHS REVISION TIPS

Getting good at mathematics is like getting good at any sport or artistic endeavour. You need to practise over and over again for skills to become embedded and reach a level of competency - just like shooting in netball, playing a guitar riff, drawing a lifelike animal or finding missing angles in circles.

The traditional pre-exam period of revision is not a sufficiently long stretch of time for most students to reach the required fluency, especially when you add in the pressures of multiple subjects. Combining this with what we understand from cognitive science and Ebbinghaus' forgetting curve - which reminds us that we need to revisit what we learn periodically in order to remember it long-term – and we can see that maths revision needs to start sooner if it is to be truly effective.

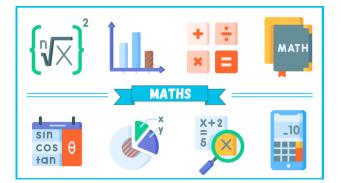
Here are a few simple things you can do:

Little and often is the way forward. Fifteen minutes on one topic three or four times a week is not remotely onerous and is hugely beneficial. Why not try using a website like Corbett Maths that feature comprehensive revision lists and questions to work through. Perhaps try his 5-aday worksheets?

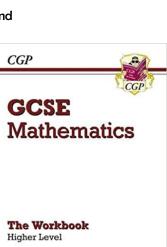
Practise questions, don't just read notes or watch videos. You only get good at maths by doing maths. Hegarty Maths provides videos to help revise, but apply this learning by completing the tasks too!

Make a list of the topics you've revised. Tick them off if you can do them without a problem. Make a note to return to them if you aren't secure yet. Every now and then, return to your secure topics to make sure you haven't forgotten them.

As the exams get closer, gradually increase your revision time. By the time you are in full revision mode, you should be doing at least four hours of maths a week (including your weekends), and the more the better.







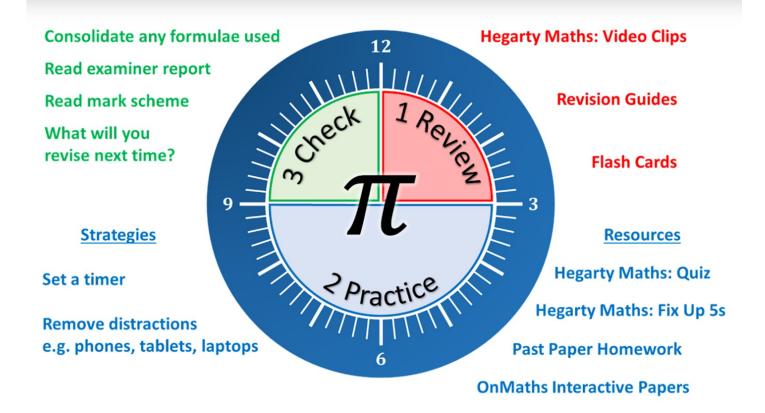


Includes Answers & Free Online Edition





Maths





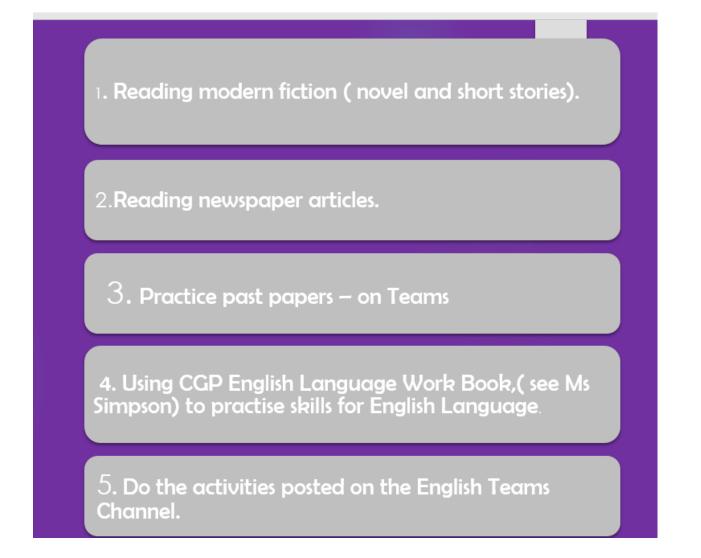
This amazing online resource combines almost 1,000 step-by-step explanatory videos with quizzes.

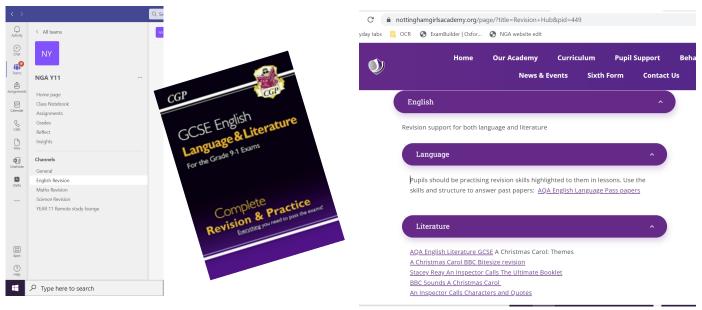
See your teacher for log-in details or a password reset.

Top Tip 1: If you are struggling with one of the quizzes, make sure you watch the video in full or try out the building blocks recommended underneath.

Top Tip 2: If you are not sure what to revise, try the Fix Up 5 to improve an area you've struggled on previously.

English





Personalised Learning Checklists AQA TRILOGY Biology Paper 1

РίΧ

	AQA TRILOGY Biology (8464) from 2016 Topic T4.1 Cell biology			
Topic	Student Checklist	R	Α	G
	Use the terms 'eukaryotic' and 'prokaryotic' to describe types of cells			
	Describe the features of bacterial (prokaryotic) cells			
	Demonstrate an understanding of the scale and size of cells and be able to make order of magnitude			
4.1.1 Cell structure	calculations, inc standard form			
	Recall the structures found in animal and plant (eukaryotic) cells inc algal cells			
	Use estimations and explain when they should be used to judge the relative size or area of sub-cellular			
	structures			
	Required practical 1: use a light microscope to observe, draw and label a selection of plant and animal			
	cells			
	Describe the functions of the structures in animal and plant (eukaryotic) cells			
	Describe what a specialised cell is, including examples for plants and animals			
4.1	Describe what differentiation is, including differences between animals and plants			
	Define the terms magnification and resolution			
	Compare electron and light microscopes in terms of their magnification and resolution			
	Carry out calculations involving magnification using the formula: magnification = size of image/			
	size of real object -inc standard form			
	Required practical 2: investigate the effect of antiseptics or antibiotics on bacterial growth using agar			
	plates and measuring zones of inhibition			
E.	Describe how genetic information is stored in the nucleus of a cell (inc genes & chromosomes)			
isio	Describe the processes that happen during the cell cycle, including mitosis (inc recognise and describe			
ē.	where mitosis occurs)			
E.	Describe stem cells, including sources of stem cells in plants and animals and their roles			
20	Describe the use of stem cells in the production of plant clones and therapeutic cloning			
-	Discuss the potential risks, begefits and issues with using stem cells in medical research/treatments			
4.1.2 Cell Division	(inc diabetes and paralysis)			
	Describe the process of diffusion, including examples			
	Explain how diffusion is affected by different factors			
5	Define and explain "surface area to volume ratio", and how this relates to single-celled and			
8	multicellular organisms (inc calculations)			
-	Explain how the effectiveness of an exchange surface can be increased, inc examples of adaptations for			
ā	small intestines, lungs, gills roots & leaves			
5	Describe the process of osmosis (inc calculation of water uptake & percentage gain and loss of mass of			
4.1.3 Transport in cells	plant tissue}			
2	Required practical 3: investigate the effect of a range of concentrations of salt or sugar solutions on the			
-	mass of plant tissue			
	Describe the process of active transport, including examples - gut and roots			
	Explain the differences between diffusion, osposis and active transport			

	AQA TRILOGY Biology (8464) from 2016 Topic T4.2 Organisation			
Topic	Student Checklist	R	Α	G
	Describe the levels of organisation within living organisms			
	Describe the digestive system and how it works as an organ system (from KS3)			
	Describe basic features of enzymes (inc rate calculations for chemical reactions)			
	Describe the lock and key theory as a model of enzyme action and explain how the shape a of the ac-			
	Explain the effect of temperature and pH on enzymes			
4.2. 1	Describe the digestive enzymes, including their names, sites of production and actions			
Prin	Describe how the products of digestion are used			
cipl es	Describe the features and functions of bile and state where it is produced and released from			
of	Required practical 4: use qualitative reagents to test for a range of carbohydrates, lipids and proteins			
or-	Required practical 5: investigate the effect of pH on the rate of reaction of amylase enzyme			
gani sati	Describe the structure of the human heart and lungs (inc how lungs are adapted for gaseous exchange)			
on &	Explain how the heart moves blood around the body (inc role and position of the aorta, vena cava, pul- monary artery & vein and coronary arteries)			
4.2. 2	Explain how the natural resting heart rate is controlled and how irregularities can be corrected			
Z Ani-	Describe the structure and function of arteries, veins and capillaries			
mal	Use simple compound measures such as rate and carry out rate calculations for blood flow			
tis- sues	Describe blood and identify its different components, inc identifying blood cells from photographs/ diagrams			
, or-	Describe the functions of blood components, including adaptations to function			
gan s	Describe what happens in coronary heart disease and what statins are used for			
and or-	Describe and evaluate treatments for coronary heart disease and heart failure (inc drugs, mechanical devices or transplant)			
gan	Recall that heart valves can become faulty and describe the consequences of this			
sys- tem	Describe how patients can be treated in the case of heart failure			
s	Describe health and the explain causes of ill-health and the relationship between health and disease			
	Describe how different types of diseases may interact and translate disease incidence information be-			
	Describe what risk factors are and give examples discussing human and financial costs of non-			
	Describe what cancer is and explain the difference between benign and malignant tumours			
	Describe the known risk factors for cancer, including genetic and lifestyle risk factors			
4.2.	Describe plant tissues (epidermal, palisade mesophyll, spongy mesophyll, xylem, phloem and meri- stem) and describe their functions			
3 Plan	Explain how the structure of plant tissues are related to their function within the leaf (plant organ) inc stomata and guard cells			
t tis-	Recall the plant parts that form a plant organ system that transports substances around the plant			
sues	Explain how root hair cells, xylem and phloem are adapted to their functions			
, or-	Describe the process of transpiration and translocation including the role of the different plant tissues	$\left - \right $		
gan	Explain how the rate of transpiration can be affected by different factors (inc naming the factors)			
S	Describe the role of stomata and guard cells in the control of gas exchange and water loss	\vdash		
and sys-				
-1-				

	AQA TRILOGY Biology (8464) from 2016 Topic T4.3 Infection and response			
Торіс	Student Checklist	R	Α	G
	Explain what a pathogen is and how pathogens are spread (inc how viruses, bacteria, protists and fungi are spread in animals and plants)			
	Explain how pathogenic bacteria and viruses cause damage in the body			
	Explain how the spread of diseases can be reduced or prevented			
	Describe measles, HIV and tobacco mosaic virus as examples of viral pathogens			
4.3.	Describe salmonella food poisoning and gonorrhoea as examples of bacterial pathogens			
4.3. 1 Co	Describe the signs, transmission and treatment of rose black spot infection in plants as an example of			
mm unic	Describe the symptoms, transmission and control of malaria, including knowledge of the mosquito			
able dis-	Describe defences that stop pathogens entering the human body (inc skin, nose, trachea & windpipe, stomach)			
eas	Recall the role of the immune system			
es	Describe how white blood cells destroy pathogens			
	Describe how vaccination works, including at the population level			
	Explain how antibiotics and painkillers are used to treat diseases, including their limitations			
	Describe how sources for drugs have changed over time and give some examples			
	Describe how new drugs are tested, including pre-clinical testing and clinical trials (inc double blind trials and placebos)			

Science Check list

Recap lessons on Teams

make formula recap flash cards

Use pass paper questions on above topics then R A G colour your confidence on the topic.

Use all online plateforms to help such as Pixl, Cognito and GCSEPod

	AQA TRILOGY Biology (8464) from 2016 Topic T4.5 Homeostasis and response			
Тор-	Student Checklist	R	Α	G
		ĸ	А	9
4.5.1	Describe what homeostasis is and why it is important stating specific examples from the human body			
Ho-				
meo				
stasi	Describe the common features of all control systems			
S				
4.5.2	State the function of the nervous system and name its important components			
The	Describe how information passes through the nervous system			
hu-	Describe what happens in a reflex action and why reflex actions are important			
man	Explain how features of the nervous system are adapted to their function, including a reflex arc (inc all			
nerv	types of neurone and the synapse)			
ous	Required practical 7: plan and carry out an investigation into the effect of a factor on human reaction			
sys-	time			
4.5.3	Describe the endocrine system, including the location of the pituitary, pancreas, thyroid, adrenal gland,			
Hor-	Describe the endocrine system, including the location of the pituitary, paneleas, thyroid, adrenar gland,			
mon	State that blood glucose concentration is monitored and controlled by the pancreas			
al	Describe the body's response when blood glucose concentration is too high			
co-	Explain what type 1 and type 2 diabetes are and how they are treated			
ordi	HT ONLY: Describe the body's response when blood glucose concentration is too low			
nati	HT ONLY: Explain how glucagon interacts with insulin to control blood glucose levels in the body			
on in	Describe how water, ions and urea are lost from the body			
hu-	Describe the consequences of losing or gaining too much water for body cells			
man	HT ONLY: Recall that protein digestion leads to excess amino acids inside the body and describe what			
S				
	Describe how the kidneys produce urine			
	HT ONLY: Describe the effect of ADH on the permeability of the kidney tubules and explain how the			
	Describe how kidney failure can be treated by organ transplant or dialysis and recall the basic principles			
	Describe what happens at puberty in males and females, inc knowledge of reproductive hormones			
	Describe the roles of the hormones involved in the menstrual cycle (FSH, LH and oestrogen)			
	HT ONLY: Explain how the different hormones interact to control the menstrual cycle and ovulation			
	Describe how fertility can be controlled by hormonal and non-hormonal methods of contraception			
	HT ONLY: Explain how hormones are used to treat infertility, inc the steps in IVF			
	HT ONLY: Evaluate the risks and benefits of fertility treatments			
	HT ONLY: Describe the functions of adrenaline and thyroxine in the body, and recall where they are			
	HT ONLY: Explain the roles of thyroxine and adrenaline in the body as negative feedback systems			
4.	Required practical 8: investigate the effect of light or gravity on the growth of newly germinated seedling			
5.				
4	HT ONLY: Explain the use of plant growth hormones are used in agriculture and horticulture (auxins,			
PI	ethene and gibberellins)			
а				
nt				
h				
or				
m				
0				
n				

	AQA TRILOGY Biology (8464) from 2016 Topic T4.6 Inheritance, variation and evolution			
Тор-	Student Checklist	R	Α	G
4.6.1	Describe features of sexual and asexual reproduction			
Re-	Describe what happens during meiosis and compare to mitosis			
prod	Describe what happens at fertilization			
uctio	Describe the structure of DNA and its role in storing genetic information inside the cell			
n	Explain the term 'genome' and the importance of the human genome (specific examples from spec only)			
	Describe how characteristics are controlled by one or more genes, including examples			
	Explain important genetic terms: gamete, chromosome, gene, allele, genotype, phenotype, dominant,			
	Explain and use Punnet square diagrams, genetic crosses and family trees			
	HT ONLY: Construct Punnet square diagrams to predict the outcomes of a monohybrid cross			
	Describe cystic fibrosis and polydactyly as examples of inherited disorders			
	Evaluate social, economic and ethical issues concerning embryo screening when given appropriate infor-			
	Describe how the chromosomes are arranged in human body cells, including the function of the sex			
	Explain how sex is determined and carry out a genetic cross to show sex inheritance			
4.6.2	Describe what variation is and how it can be caused within a population			
Vari-	Describe mutations and explain their influence on phenotype and changes in a species			
atio	Explain the theory of evolution by natural selection			
n	Describe how new species can be formed			
and	Describe what selective breeding is			
evo- lutio	Explain the process of selective breeding, including examples of desired characteristics and risks associat-			
n	Describe what genetic engineering is, including examples, and how it is carried out			
	Explain some benefits, risks and concerns related to genetic engineering			
	HT ONLY: Explain the process of genetic engineering, to include knowledge of enzymes and vectors			
4.6.3	Describe some sources of evidence for evolution			
The	Describe what fossils are, how they are formed and what we can learn from them			
de-	Explain why there are few traces of the early life forms, and the consequences of this in terms of our			
velo	understanding of how life began			
pme	Describe some of the causes of extinction			
nt of	Describe how antibiotic-resistant strains of bacteria can arise and spread (inc MRSA)			
un-	Describe how the emergence of antibiotic-resistant bacteria can be reduced and controlled, to include			
ders	the limitations of antibiotic development			
tand				
ing of				
ge- netic				
s				
and				
evo-				
lutio				
4.6.4 Clas-	Describe how organisms are named and classified in the Linnaean system			
sific	Describe and interpret evolutionary trees			
atio n	Explain how scientific advances have led to the proposal of new models of classification, inc three-			
				1

AQA TRIL	OGY Biology (8464) from 2016 Topic T4.7 Ecology			
Торіс	Student Checklist	R	Α	G
4.7.1	Recall what an ecosystem is			
Adap-	Describe which resources animals and plants compete for, and why they do this			
tations,	Explain the terms 'interdependence' and 'stable community'			
inter-	Name some abiotic and biotic factors that affect communities			
depend	Explain how a change in an abiotic or biotic factor might affect a community			
ence and	Describe structural, behavioural and functional adaptations of organisms			
compe-	Describe what an extremophile is			
compe-				
4.7.2	Represent the feeding relationships within a community using a food chain and describe these rela-			
Organi-				
sation	Explain how and why ecologists use quadrats and transects			
of an	Describe and interpret predator-prey cycles			
ecosys-	Required practical 9: measure the population size of a common species in a habitat. Use sampling to			
tem				
	Describe the processes involved in the carbon cycle			
	Describe the processes involved in the water cycle			
4.7.3	Describe what biodiversity is, why it is important, and how human activities affect it			
Biodi-	Describe the impact of human population growth and increased living standards on resource use and			
versity		_		
and the effect	Explain how pollution can occur, and the impacts of pollution	-		
of hu-	Describe how humans reduce the amount of land available for other animals and plants	-		
man	Explain the consequences of peat bog destruction	-		
inter-	Describe what deforestation is and why it has occurred in tropical areas			
action	Explain the consequences of deforestation			
on eco-	Describe how the composition of the atmosphere is changing, and the impact of this on global warm-			
system	Describe some biological consequences of global warming	+		
s	Describe both positive and negative human interactions in an ecosystem and explain their impact on			
	Describe programmes that aim to reduce the negative effects of humans on ecosystems and biodiver-			

	AQA TRILOGY Chemistry (8464) from 2016 Topics T5.6 The rate and extent of chemical change			
Тор-	Student Checklist	R	Α	G
5.6.1 Rate	Calculate the rate of a chemical reaction over time, using either the quantity of reactant used or the quan-			
of reac-	Draw and interpret graphs showing the quantity of product formed or reactant used up against time and			
tion	HT ONLY: Calculate the gradient of a tangent to the curve on the graph of the quantity of product			
	Describe how different factors affect the rate of a chemical reaction, including the concentration, pres- sure, surface area, temperature and presence of catalysts			
	Required practical 11: investigate how changes in concentration affect the rates of reactions by a method			
	Use collision theory to explain changes in the rate of reaction, including discussing activation energy		Т	
	Describe the role of a catalyst in a chemical reaction and state that enzymes are catalysts in biological sys-			
	Draw and interpret reaction profiles for catalysed reactions		T	
5.6.2 Re-	Explain what a reversible reaction is, including how the direction can be changed and represent it using symbols: A + B \rightleftharpoons C + D			
versi ble	Explain that, for reversible reactions, if a reaction is endothermic in one direction, it is exothermic in the other direction			
reac- tions	Describe the State of dynamic equilibrium of a reaction as the point when the forward and reverse reac- tions occur at exactly the same rate			
and dy-	HT ONLY: Explain that the position of equilibrium depends on the conditions of the reaction and the equilibrium will change to counteract any changes to conditions			
nam ic equil ibriu	HT ONLY: Explain and predict the effect of a change in concentration of reactants or products, tempera- ture, or pressure of gases on the equilibrium position of a reaction			

	AQA TRILOGY Chemistry (8464) from 2016 Topics T5.7 Organic chemistry			
Topic	Student Checklist	R	Α	G
5.7.1	Describe what crude oil is and where it comes from, including the basic composition of crude oil and			
Car-				
bon	State the names of the first four members of the alkanes and recognise substances as alkanes from			
com-				
pound	Describe the process of fractional distillation, state the names and uses of fuels that are produced			
s as				
fuels	Describe trends in the properties of hydrocarbons, including boiling point, viscosity and flammability			
and				
feed-	Describe and write balanced chemical equations for the complete combustion of hydrocarbon fuels			
stock	Describe the process of cracking and state that the products of cracking include alkanes and alkenes			
	Balance chemical equations as examples of cracking when given the formulae of the reactants and			
	Explain why cracking is useful and why modern life depends on the uses of hydrocarbons			

	AQA TRILOGY Chemistry (8464) from 2016 Topics T5.8 Chemical analysis			
Торіс	Student Checklist	R	Α	G
5.8.1	Define a pure substance and identify pure substances and mixtures from data about melting			
Purity,	and boiling points			
for-	Describe a formulation and identify formulations given appropriate information			
mulati				
ons	Describe chromatography, including the terms stationary phase and mobile phase and identify			
and	pure substances using paper chromatography			
chro-	Explain what the Rf value of a compound represents, how the Rf value differs in different sol-			
matog	vents and interpret and determine Rf values from chromatograms			
raph	Required practical 12: investigate how paper chromatography can be used to separate and tell			
&	the difference between coloured substances (inc calculation of Rf values)			
5.8.2	Explain how to test for the presence of hydrogen, oxygen, carbon dioxide and chlorine			
ID of				

AQA	Chemistry (8462) from 2016 Topics C4.9 Chemistry of the atmos	phe	ere	2
Торіс	Student Checklist	R	Α	G
4.9.1	Describe the composition of gases in the Earth's atmosphere			
The	using percentages, fractions or ratios			
com-	Describe how early intense volcanic activity may have helped			
posi	form the early atmosphere and how the oceans formed			
tion	Explain why the levels of carbon dioxide in the atmosphere			
and	changes as the oceans were formed			
evo-	State the approximate time in Earth's history when algae start-			
lutio	ed producing oxygen and describe the effects of a gradually in-			
n of	creasing oxygen level			
the	Explain the ways that atmospheric carbon dioxide levels de-			
Earth	creased			
's at-				
mos				
pher				

4.9.2	Name some greenhouse gases and describe how they cause		Π
Car-	an increase in Earth's temperature		
bon	List some human activities that produce greenhouse gases		
diox-			
ide	Evaluate arguments for and against the idea that human activi-		
and	ties cause a rise in temperature that results in global climate		
me-	change		+
than	State some potential side effects of global climate change, in-		
e as	cluding discussing scale, risk and environmental implications		
	Define the term carbon footprint and list some actions that		
gree nhou	could reduce the carbon footprint		
se			
4.9.3	Describe the combustion of fuels as a major source of atmos-		
Com-	pheric pollutants and name the different gases that are re-		
mon	leased when a fuel is burned		
at-	Predict the products of combustion of a fuel given appropriate		
mos	information about the composition of the fuel and the condi-		
pheri	tions in which it is used		
c pol-	Describe the properties and effects of carbon monoxide, sulfur		
lutan	dioxide and particulates in the atmosphere		
ts	Describe and explain the problems caused by increased		\uparrow
· ·	· · · · · · · · · · ·	1 1	1
and	amounts of these pollutants in the air		
and their	amounts of these pollutants in the air		
	amounts of these pollutants in the air		
their	amounts of these pollutants in the air		

	AQA Chemistry (8462) from 2016 Topics C4.10 Using resources			
Торіс	Student Checklist	R	Α	G
4.10.	State what humans use Earth's resources for, give some examples of nat-			
1 Us-	ural resources that they use			
ing	Define the term finite and distinguish between finite and renewable re-			
the	sources			
Earth'	Explain what sustainable development is and discuss the role chemistry			
s re-	plays in sustainable development, including improving agricultural and in-			
sourc				
es	State examples of natural products that are supplemented or replaced by			
and	agricultural and synthetic products			
ob-	Discuss the importance of water quality for human life, including defining			
tainin	potable water			
g po-	Describe methods to produce potable water, including desalination of			
table	salty water or sea water and the potential problems of desalination			
water	Required practical 13: analysis and purification of water samples from			
	different sources, including pH, dissolved solids and distillation.			
	Describe waste water as a product of urban lifestyles and industrial pro-			
	cesses that includes organic matter, harmful microbes and harmful chemi-			
	Describe the process of sewage treatment and compare the ease of ob-			
	taining potable water from waste water as opposed to ground or salt wa-			
	HT ONLY: Name and describe alternative biological methods for ex-			
	tracting metals, including phytomining and bioleaching			
	HT ONLY: Evaluate alternative methods for extracting metals			
4.10.	Describe, carry out and interpret a simple comparative life cycle assess-			
2 Life	ment (LCA) of materials or products			
cycle	Discuss the advantages and disadvantages of LCAs			
as-	Carry out simple comparative LCAs for shopping bags made from plastic			
sess	and paper			
ment	Discuss how to reduce the consumption of raw resources and explain			
and	how reusing and recycling reduces energy use (inc environmental impacts)			
recy-				
cling				

	AQA TRILOGY Physics (8464) from 2016 Topics T6.1. Energy			
Торіс	Student Checklist	R	Α	G
6.1.1	Define a system as an object or group of objects and state examples of changes in the			
Energy				
changes	Describe how all the energy changes involved in an energy transfer and calculate rel-			
in a sys-	ative changes in energy when the heat, work done or flow of charge in a system			
tem,				
and the	Use calculations to show on a common scale how energy in a system is redistributed			
ways energy	Calculate the kinetic energy of an object by recalling and applying the equation: $\int E_k =$			
is stored	Calculate the amount of elastic potential energy stored in a stretched spring by apply-			
before	calculate the amount of elastic potential energy stored in a stretched spring by apply-			
and	Calculate the amount of gravitational potential energy gained by an object raised			
after				
such changes	Calculate the amount of energy stored in or released from a system as its tempera-			
	Define the term 'specific heat capacity'			
	Required practical 14: investigation to determine the specific heat capacity of one or			
	Define power as the rate at which energy is transferred or the rate at which work is			
	Calculate power by recalling and applying the <i>equations: [P = E/t & P = W/t]</i>			
	Explain, using examples, how two systems transferring the same amount of energy			
6.1.2 Conser-	State that energy can be transferred usefully, stored or dissipated, but cannot be			
vation and dis-	Explain that only some of the energy in a system is usefully transferred, with the rest			
sipation of ener-	Explain ways of reducing unwanted energy transfers and the relationship between			
gy	Describe how the rate of cooling of a building is affected by the thickness and ther-			
	Calculate efficiency by recalling and applying the equation: <i>[efficiency = useful power</i>			
	HT ONLY: Suggest and explain ways to increase the efficiency of an intended energy transfer			
6.1.3 National	List the main renewable and non-renewable energy resources and define what a			
and global	Compare ways that different energy resources are used, including uses in transport,			
energy re-	Explain why some energy resources are more reliable than others, explaining			
sources	Evaluate the use of different energy resources, taking into account any ethical and			
	Justify the use of energy resources, with reference to both environmental issues and			

Tania	Student Checklist	R	Α	G
Topic		ĸ	A	G
6.2.1	Draw and interpret circuit diagrams, including all common circuit symbols	-		
Current,	Define electric current as the rate of flow of electrical charge around a closed circuit			
potential	Calculate charge and current by recalling and applying the formula: [Q = It]			
differ- ence and	Explain that current is caused by a source of potential difference and it has the same value at			
re-	any point in a single closed loop of a circuit			
sistance	Describe and apply the idea that the greater the resistance of a component, the smaller the			
Sistance	current for a given potential difference (p.d.) across the component			
	Calculate current, potential difference or resistance by recalling and applying the equation: [V = IR]			
	Required practical 15: Use circuit diagrams to set up and check circuits to investigate the fac- tors affecting the resistance of electrical circuits			
	Define an ohmic conductor			
	Explain the resistance of components such as lamps, diodes, thermistors and LDRs and sketch/interpret IV graphs of their characteristic electrical behaviour			
	Explain how to measure the resistance of a component by drawing an appropriate circuit diagram using correct circuit symbols			
	Required practical 16: use circuit diagrams to construct appropriate circuits to investigate the			
6.2.2 Series	Show by calculation and explanation that components in series have the same current pass- ing through them			
and par- allel cir-	Show by calculation and explanation that components connected in parallel have the same the potential difference across each of them			
cuits	Calculate the total resistance of two components in series as the sum of the resistance of each component using the equation: $[R_{total} = R_1 + R_2]$			
	Explain qualitatively why adding resistors in series increases the total resistance whilst adding resistors in parallel decreases the total resistance			
	Solve problems for circuits which include resistors in series using the concept of equivalent			
6.2.3	Explain the difference between direct and alternating voltage and current, stating what UK			
Domestic	mains is			
uses and	Identify and describe the function of each wire in a three-core cable connected to the mains			<u> </u>
safety	State that the potential difference between the live wire and earth $(0 V)$ is about 230 V and that both neutral values and such a diagonal term because the standard state of $(0 V)$			
	that both neutral wires and our bodies are at, or close to, earth potential (0 V)			<u> </u>
	Explain that a live wire may be dangerous even when a switch in the mains circuit is open by	1		1

6.2.4 En- ergy	Explain how the power transfer in any circuit device is related to the potential difference across it and the current through it		
transfers	Calculate power by recalling and applying the equations: $[P = VI]$ and $[P = I^2 R]$		
	Describe how appliances transfer energy to the kinetic energy of motors or the thermal en- ergy of heating devices		
	Calculate and explain the amount of energy transferred by electrical work by recalling and applying the equations: [E = Pt] and [E = QV]		
	Explain how the power of a circuit device is related to the potential difference across it, the current through it and the energy transferred over a given time.		
	Describe, with examples, the relationship between the power ratings for domestic electrical appliances and the changes in stored energy when they are in use		
	Identify the National Grid as a system of cables and transformers linking power stations to consumers		
	Explain why the National Grid system is an efficient way to transfer energy, with reference to change in potential difference reducing current		

AQA TRILO	GY Physics (8464) from 2016 Topics T6.3. Particle model of matter				
TOPIC	Student Checklist	R	Α	G	
6.3.1	Calculate the density of a material by recalling and applying the equation: [ρ = m/V]				
Changes	Recognise/draw simple diagrams to model the difference between solids, liquids and gases				
of state	Use the particle model to explain the properties of different states of matter and differences in				
and the					
particle	Required practical 17: use appropriate apparatus to make and record the measurements need-				
model	ed to determine the densities of regular and irregular solid objects and liquids				
	Recall and describe the names of the processes by which substances change state				
	Use the particle model to explain why a change of state is reversible and affects the properties				
	of a substance, but not its mass				
6.3.2 Internal	State that the internal energy of a system is stored in the atoms and molecules that make up				
energy and en-	Explain that internal energy is the total kinetic energy and potential energy of all the particles in				
ergy	Calculate the change in thermal energy by applying but not recalling the equation [$\Delta E = m c \Delta \theta$]				
transfers	Calculate the specific latent heat of fusion/vaporisation by applying, but not recalling, the equa-				
	Interpret and draw heating and cooling graphs that include changes of state				
	Distinguish between specific heat capacity and specific latent heat				
6.3.3	Explain why the molecules of a gas are in constant random motion and that the higher the tem-				
Particle					
model	Explain, with reference to the particle model, the effect of changing the temperature of a gas				
and pres-					
sure	Calculate the change in the pressure of a gas or the volume of a gas (a fixed mass held at con-				
	stant temperature) when either the pressure or volume is increased or decreased				

	AQA TRILOGY Physics (8464) from 2016 Topics T6.4. Atomic structure			
TOPIC	Student Checklist	R	Α	G
6.4.1 Atoms	Describe the basic structure of an atom and how the distance of the charged particles vary with the ab-			
and	Define electrons, neutrons, protons, isotopes and ions			
iso- topes	Relate differences between isotopes to differences in conventional representations of their identities,			
	Describe how the atomic model has changed over time due to new experimental evidence, inc discovery			
6.4.2 Atoms	Describe and apply the idea that the activity of a radioactive source is the rate at which its unstable nuclei			
and nuclear	Describe the penetration through materials, the range in air and the ionising power for alpha particles,			
radia- tion	Apply knowledge of the uses of radiation to evaluate the best sources of radiation to use in a given situa-			
	Use the names and symbols of common nuclei and particles to complete balanced nuclear equations, by			
	Define half-life of a radioactive isotope			
	HT ONLY: Determine the half-life of a radioactive isotope from given information and calculate the net			
	Compare the hazards associated with contamination and irradiation and outline suitable precautions tak-			
	Discuss the importance of publishing the findings of studies into the effects of radiation on humans and			

	AQA TRILOGY Physics (8464) from 2016 Topics T6.5. Forces			
Торіс	Student Checklist	R	Α	G
6.5.1	Identify and describe scalar quantities and vector quantities			
Forc-	Identify and give examples of forces as contact or non-contact forces			
es	Describe the interaction between two objects and the force produced on each as a vector			
and	Describe weight and explain that its magnitude at a point depends on the gravitational field strength			
their	Calculate weight by recalling and using the equation: [W = mg]			
in-	Represent the weight of an object as acting at a single point which is referred to as the object's 'centre			
terac	of mass'			
tions	Calculate the resultant of two forces that act in a straight line			
	HT ONLY: describe examples of the forces acting on an isolated object or system			
	HT ONLY: Use free body diagrams to qualitatively describe examples where several forces act on an			
	object and explain how that leads to a single resultant force or no force			
	HT ONLY: Use free body diagrams and accurate vector diagrams to scale, to resolve multiple forces			
	and show magnitude and direction of the resultant			
	HT ONLY: Use vector diagrams to illustrate resolution of forces, equilibrium situations and determine			
	the resultant of two forces, to include both magnitude and direction			
6.5.2	Describe energy transfers involved when work is done and calculate the work done by recalling and us-			
Work	ing the equation: [W = Fs]			
done	Describe what a joule is and state what the joule is derived from			
and	Convert between newton-metres and joules.			
ener-	Explain why work done against the frictional forces acting on an object causes a rise in the temperature			
gy	of the object			
trans				
653	Describe averagles of the former involved in startships, has dive an environment of the third	-		
6.5.3	Describe examples of the forces involved in stretching, bending or compressing an object			
Forc-	Explain why, to change the shape of an object (by stretching, bending or compressing), more than one			
es and	force has to be applied – this is limited to stationary objects only	-		—
elas-	Describe the difference between elastic deformation and inelastic deformation caused by stretching			
ticity	forces	-		<u> </u>
cicicy	Describe the extension of an elastic object below the limit of proportionality and calculate it by recalling			
	and applying the equation: [F = ke]	-		
	Explain why a change in the shape of an object only happens when more than one force is applied			
	Describe and interpret data from an investigation to explain possible causes of a linear and non-linear			
	relationship between force and extension	+		
	Calculate work done in stretching (or compressing) a spring (up to the limit of proportionality) by apply-			
	ing, but not recalling, the equation: $[E_e = \frac{1}{2}ke^2]$			
	Required practical 18: investigate the relationship between force and extension for a spring.			

4.5.4	Define distance and displacement and explain why they are scalar or vector quantities		
Forc-	Express a displacement in terms of both the magnitude and direction		
es	Explain that the speed at which a person can walk, run or cycle depends on a number of factors and recall		
and	some typical speeds for walking, running, cycling		
mo-	Make measurements of distance and time and then calculate speeds of objects in calculating average speed		
tion	for non-uniform motion		
	Explain why the speed of wind and of sound through air varies and calculate speed by recalling and applying		
	the equation: [<i>s</i> = <i>v t</i>]		
	Explain the vector-scalar distinction as it applies to displacement, distance, velocity and speed		
	HT ONLY: Explain qualitatively, with examples, that motion in a circle involves constant speed but changing		
	velocity		
	Represent an object moving along a straight line using a distance-time graph, describing its motion and calcu-		
	lating its speed from the graph's gradient		
	Draw distance-time graphs from measurements and extract and interpret lines and slopes of distance-time		
	graphs,		
	Describe an object which is slowing down as having a negative acceleration and estimate the magnitude of		
	everyday accelerations		
	Calculate the average acceleration of an object by recalling and applying the equation: $[a = \Delta v/t]$		
	Represent motion using velocity-time graphs, finding the acceleration from its gradient and distance travelled		
	from the area underneath		
	HT ONLY: Interpret enclosed areas in velocity-time graphs to determine distance travelled (or displace-		
	ment)		
	HT ONLY: Measure, when appropriate, the area under a velocity- time graph by counting square		
	Apply, but not recall, the equation: $[v^2 - u^2 = 2as]$		
	Explain the motion of an object moving with a uniform velocity and identify that forces must be in effect if its		
	velocity is changing, by stating and applying Newton's First Law		
	Define and apply Newton's second law relating to the acceleration of an object		
	Recall and apply the equation: [F = ma]		
	HT ONLY: Describe what inertia is and give a definition		
	Estimate the speed, accelerations and forces of large vehicles involved in everyday road transport		
	Required practical 19: investigate the effect of varying the force on the acceleration of an object of constant		
	mass, and the effect of varying the mass of an object on the acceleration		
	Apply Newton's Third Law to examples of equilibrium situations		
	Describe factors that can affect a driver's reaction time		
	Explain methods used to measure human reaction times and recall typical results		
	Interpret and evaluate measurements from simple methods to measure the different reaction times of stu-		
	dents		
	Evaluate the effect of various factors on thinking distance based on given data		
	State typical reaction times and describe how reaction time (and therefore stopping distance) can be affected		
	by different factors		
	Explain methods used to measure human reaction times and take, interpret and evaluate measurements of		
	the reaction times of students		
	Explain how the braking distance of a vehicle can be affected by different factors, including implications for		
	road safety		
	Explain how a braking force applied to the wheel does work to reduce the vehicle's kinetic energy and increas-		
	es the temperature of the brakes		
	Explain and apply the idea that a greater braking force causes a larger deceleration and explain how this		
	might be dangerous for drivers		
	HT ONLY: Estimate the forces involved in the deceleration of road vehicles		

4.5.5 Mo-	HT ONLY: Calculate momentum by recalling and applying the equation: $[p = mv]$		
ment	HT ONLY: Explain and apply the idea that, in a closed system, the total momentum before an		
un	HT ONLY: Describe examples of momentum in a collision		

	AQA TRILOGY Physics (8464) from 2016 Topics T6.6. Waves			
Торіс	Student Checklist	R	Α	G
6.6.1	Describe waves as either transverse or longitudinal, defining these waves in terms of the direc-			
Wave				
s in	Define waves as transfers of energy from one place to another, carrying information			
air, fluids	Define amplitude, wavelength, frequency, period and wave speed and Identify them where			
and solids	State examples of methods of measuring wave speeds in different media and Identify the suit-			
	Calculate wave speed, frequency or wavelength by applying, but not recalling, the equation: $[v = f \lambda]$ and calculate wave period by recalling and applying the equation: $[T = 1/f]$			
	Identify amplitude and wavelength from given diagrams			
	Describe a method to measure the speed of sound waves in air			
	Describe a method to measure the speed of ripples on a water surface			
	Required practical 20: make observations to identify the suitability of apparatus to measure the frequency, wavelength and speed of waves in a ripple tank and waves in a solid			

6.6.2	Describe what electromagnetic waves are and explain how they are grouped	
Elec-	List the groups of electromagnetic waves in order of wavelength	
trom	Explain that because our eyes only detect a limited range of electromagnetic waves, they can	
agne		
tic	HT ONLY: Explain how different wavelengths of electromagnetic radiation are reflected,	
wave	refracted, absorbed or transmitted differently by different substances and types of surface	
S	Illustrate the refraction of a wave at the boundary between two different media by con-	
	HT ONLY: Describe what refraction is due to and illustrate this using wave front diagrams	
	Required practical activity 10: investigate how the amount of infrared radiation absorbed or	
	HT ONLY: Explain how radio waves can be produced by oscillations in electrical circuits, or	
	Explain that changes in atoms and the nuclei of atoms can result in electromagnetic waves	
	State examples of the dangers of each group of electromagnetic radiation and discuss the	
	State examples of the uses of each group of electromagnetic radiation, explaining why each	

Combined Science Physics

AQ	A TRILOGY Physics (8464) from 2016 Topics T6.7. Magnetism and electromagnetis	m		
TOPIC	Student Checklist	R	Α	G
6.7.1 Per-	Describe the attraction and repulsion between unlike and like poles of perma-			
manent	nent magnets and explain the difference between permanent and induced mag-			
and in-				
duced	Draw the magnetic field pattern of a bar magnet, showing how field strength			
mag-				
netism,	Explain how the behaviour of a magnetic compass is related to evidence that the			
magnetic				<u> </u>
forces and	Describe how to plot the magnetic field pattern of a magnet using a compass			
6.7.2 The	State examples of how the magnetic effect of a current can be demonstrated			
motor	and explain how a solenoid arrangement can increase the magnetic effect of the			
effect				
	Draw the magnetic field pattern for a straight wire carrying a current and for a			
	PHY ONLY: Interpret diagrams of electromagnetic devices in order to explain			
	HT ONLY: State and use Fleming's left-hand rule and explain what the size of			
	HT ONLY: Calculate the force on a conductor carrying a current at right angles			
	HT ONLY: Explain how rotation is caused in an electric motor			

Торіс	l can explain		Learning journey (class notes)	After learning challenge(s)	After Learning Journev
Part 1: Germany and	the growth of democracy				
1. Kaiser Wilhelm and the difficulties of ruling Germany (before WW1)	Creation of a unified Germany (• The growth of parliamentar • The influence of Prussian m Development of Germany • Industrialisation • Social reform and the grow The domestic importance of the	ry government illitarism in Germany th of socialism			
	War weariness and economic pr The end of the monarchy – the s				
2. Impact of the First World War	Attitudes towards defeat Post-war problems	The issue of reparations Occupation of the Ruhr Hyperinflation			
	Why there was political change and unrest, 1919-1923 {Uprisings}	Spartacists Kapp Putsch Red Rising in the Ruhr Munich Putsch			
3. Weimar democracy	The extent of recovery during the Stresemann era (1924- 1929)	Introduction of a new currency International agreements: Dawes Plan Young Plan Locarno Pact The impact of international agreements on recovery			
Before Learning Journ	Weimar culture – a golden age? ney: My target for this term	After Learning Journey: My t	arget for	next term	

Торіс	l can explain		Learning journey (class notes)	After learning challenge(s)	After Learning
Part 3: The experie	nces of Germans under the Na	zis			
	Hitler's economic changes	 increasing employment, 			
	rearmament, self-sufficiency				
	 Economic plans – New Plan 	n and 4 Year Plan]	
1. Economic	 Successes and drawbacks]	
changes	 the impact of war on the economy and the German people 	- Bombing - Rationing - Labour shortages			
	• Women	- Refugees - reasons for policies - practices - impact and success			
2. Social policy and practice	• Young people and youth groups	 reasons for policies practices education impact 			
	 control of churches and rel 			1	
	Aryan ideas, racial policy as				
	the Final Solution		+	1	
	Goebbels, the use of propa	eanda and consorshin	-		
	Nazi culture	Serves and conserving	-		
	repression and the police s	tate and the roles of		1	
	Himmler, the SS and Gestapo				
3. Control	descape	- White Rose group	+	1	
	• opposition and resistance	- Swing Youth - Edelweiss Pirates - July 1944 bomb plot			
Before Learning Jo	urney: My target for this term	After Learning Journey:	My target	for next t	erm

🔰 🚽 🚽 PLC	SE History AG Paper 1: Se many, 1890	ctio				Laconstruct
Торіс	I can explai	in		Learning journey (class notes)	After learning challenøe(s)	After Learning Journey
Part 2: Germany	and the Dep	res	ssion			
1. The impact of the Depression - rise of the Nazi party	 Reasons for the growth in support for the Nazis and other extremist parties (1928-1932 		The Wall Street Crash - rise in unemployment; unhappiness with the Weimar government Hitler's appeal (his aims/beliefs; his leadership skills) Nazi party tactics (including their organisation, propaganda and promises) Fear of communism and the role of the SA		_	
2. The failure of Weimar democracy	Nazis? Why	/? ppo	ults after 1928 – Who voted for the ointment as Chancellor – the role of odenburg			
3. The establishment	1933	•	the Reichstag Fire the Enabling Act e elimination of political opposition e elimination of trade unions			
of Hitler's dictatorship	1934	к •	Rohm and the Night of the Long inives Death of Hindenburg - Hitler vecomes Führer		_	
Before Learning Jou	rney: My targe	et f	or this term After Learning Journey: M	y target	for next	<u>term</u>

	PLC Paper 1: Section B Conflict and Tension: 1918-1939					-	シ	
pic	I can explain			loamine inemen	(dass notes)	After learning challeneo(c)	After Learning	Journey Comme
rt 1: <u>Peacemakir</u>	a a				_			
	• The aims of		vilson and his <u>14 point</u> plan		_			
. The Armistice	the peacemakers	ʻ0	lemenceau and his want to ripple' Germany					
		• L B	loyd George and the aims of ritish Empire	the				
	• The extent to		erritorial terms: land lost by ermany (Land)					
The Verspiller	which the	• •	Ailitary restrictions placed or ermany (Army)	١				
	peacemakers achieved their	• P	ayment of reparations to the	•				
	aims	• 4	llied countries (Money) rticle 231: the War Guilt clau	JSE	_			
	. Prosting		Blame)		_		-	_
	Reaction a Treaty	and satisfac	tion of the Allies regarding the					
. Impact of the	German r	eaction and	l objections to the Treaty					
eaty and wider settlement			rmany's allies at the end of the uckey and Bulgaria	war				
	 Strengths 	and weakn	esses of the settlement, includ wy new states	ing				
	Criticism	of the Allies	in their formation of the Treat	y I	_			
	and wider	settlemen	After Learning Journey					
)	PLC	CSE History AQA Paper 1: Section B and Tension: 1918-1939)
)	PLC	Paper 1: Section B		ning journey	lass notes)	ter fearning allenge(s)	ter Learning Journey
Торіс	I can explai	PLC Conflict : in	Paper 1: Section B and Tension: 1918-1939		Learning journey	(dass notes)	After learning challenge(s)	After Learning Journey
	I can explai	PLC Conflict : in	Paper 1: Section B and Tension: 1918-1939		Learning journey	(dats notes)	After learning that the second s	After Learning Journey Journey
	i can explai	PLC Conflict : in in se Second We	Paper 1: Section B and Tension: 1918-1939 w/d War		Learning journey	(dass notes)	After learning challenge(s)	After Learning Journey
	I can explai	PLC Conflict : in in se Second We	Paper 1: Section B and Tension: 1918-1939 w/d War		Learning journey	(dass notes)	After learning challenge(s)	After Learning Journey
	I can explai	PLC Conflict : in in Second We anse to Hitle	Paper 1: Section B and Tension: 1918-1939 orld War		Learning journey	(dass notes)	After learning that the second	After Learning Journey
Part 3: The orig	I can explai	PLC Conflict : in as Second We ns actions	Paper 1: Section B and Tension: 1918-1939 what war r • The Qollage Affair • The Saar • The Stress Front		Learning journey	(dats notes)	After learning challenge(s)	After Learning Journey
Part 3: The orig	I can explai	PLC Conflict : in as Second We ns actions	Paper 1: Section B and Tension: 1918-1939 whit War r • The Qojkus Affair • The Saar • The Stress Front • Rearmament Land consort		Learning journey	(diass notes)	After learning trailenge(s)	After Learning Journey
Part 3: The orig	I can explai	PLC Conflict a in in Second Wo ins ins ins ins ins ins ins ins ins ins	Paper 1: Section B and Tension: 1918-1939 white war r • The Qolluge Affair • The Saar • The Stress Front • Rearmament (and conso • Anglo-German Naval Agr		Learning journey	(dats notes)	After fearning challenge(s)	After Learning Journey
Part 3: The orig	E can explai	PLC Conflict a in in se Second Wor ins ins to Hitle instance to	Paper 1: Section B and Tension: 1918-1939 white war r • The Qolluge Affair • The Saar • The Stress Front • Rearmament (and conso • Anglo-German Naval Agr		Fearning journey	(dass notes)	After learning challenge(s)	After Learning Journey
Part 3: The orig	I can explai	PLC Conflict a in in se Second Wor ins ins to Hitle instance to	Paper 1: Section B and Tension: 1918-1939 whit War r • The Qolluge Affair • The Saar • The Stress Front • Rearmament [and conso • Angle-German Haval Agr Whineland		Learning journey	(dass notes)	After fearming challenge(s)	After Learning Journey
Part 3: The arig	E can explai prise and outbreak of the • Hitker's air • Alited resp • Mitsolini, • Normilitaris • Mussolini, • Mussolini, • Anschluss	PLC Conflict : in is Second Wo ns onse to Hitle (actions 1935) ation of the the Aujs and	Paper 1: Section B and Tension: 1918-1939 whit War r • The Qolluge Affair • The Saar • The Stress Front • Rearmament [and conso • Angle-German Haval Agr Whineland		rearring journey	(data notes)	After fearning the	After Learning Jourtey
Part 3: The arig	I can explai ains and outbrook of th Hitler's ain Alited resp Alited resp Nemilitaris Mussolini, Appeasem Appeasem	PLC Conflict : in is Second Wo ns onse to Hitle (actions 1935) ation of the the Aujs and	Paper 1: Section B and Tension: 1918-1939 wild War r • The Qollyug Affair • The Saar • The Saar • The Stress Front • Rearmament [and consol • Angle-German Naval Agr Whineland the Anti-Comintern Pact		Learning journey	(dats notet)	After learning challenge(s)	After Learning
Part 3: The arig	I can explai pins and outbreak of th Hitler's air Alited resp (1933-(1933- (1933-(1933- (1933-(19	PLCConflict at a contract of the second Work of the second	Paper 1: Section B and Tension: 1918-1939 wild War T The Section Affair The Section Affair The Section Affair The Section Affair The Section Affair Rearmament (and conso Anglo-German Naval Agr Numetand the Anti-Comintern Pact s for, reasons against Munich ment		restrict journey		After learning After learning that the second secon	After Learning
Part 3: The arig	I can explai priss and outbreak of th Hitler's air Allied resp ment m Pettler's (1933-	PLC Conflict : n.	Paper 1: Section B and Tension: 1918-1939 wild War T The Sections Affair The Sar The Stress Front Rearmament (and conso Arglo-German Haval Agr Whinefand the Anti-Comintern Pact s for, reasons against Munich ment hastovatia		rearring journey		After learning challenge(s)	After Learning
Part 3: The arig	I can explai priss and outbreak of th Hitler's air Allied resp (1933- (19	PLC Conflict : n. n. s s actions protocol protoc	Paper 1: Section B and Tension: 1918-1939 wild War T T The Saress Front The Stress Front Rearmament [and conso The Stress Front Rearmament [and conso Argle-German Haval Age Whineland the Anti-Comintern Pact a for, reasons against Munich ment hoslovakia d the Naui-Soviet Pact	reement	rearried journey		After learning challenge(s)	After Learning
Part 3: The arig	I can explai pins and outbreak of th Hitler's air Alited resp (1933- (19	PLCC Conflict : n n actions protocological actions of the set - reasons actions of the the gays and ent - reasons to follow a the of the set of the set of the set of the set of the set of the set of the set of the set of the set of the	Paper 1: Section B and Tension: 1918-1939 white way in the section of the sectio	Neement 1	rearring journey		After learning challenge(s)	After Learning
Part 3: The arig	I can explai pins and outbreak of th Hitler's air Alited resp (1933- (19	PLCC Conflict : n n actions protocological actions of the set - reasons actions of the the gays and ent - reasons to follow a the of the set of the set of the set of the set of the set of the set of the set of the set of the set of the	Paper 1: Section B and Tension: 1918-1939 and Tension: 1918-1939 and War r • The Qellugs Affair • The Sar • The Sar • The Sar • The Sar • The Stress Front • Rearmament [and consci • Angle-German Naval Age Whiteland the Anti-Comintern Pact • for, reasons against Munich ment hostovakia d the Nazi-Soviet Pact and outbreak of war, September 19	Neement 1	rearring journey		After learning challenge(s)	After Learning

	GC5E History A PLC Paper 1: Sect Conflict and Tension: 3	ion B			
Торіс	l can explain		Learning journey (class notes)	After learning challenge(s)	After Learning Journey
Part 2: The League	of Nations and international peace				
1. The League of Nations	its formation and covenant organisation membership and how it changed the powers of the League the work of the League's agencies the contribution of the League to peace in the 1920s	Successes Failures			
2. Diplomacy outside the League	Locarno Treaties (1925) Kellogg-Briand Pact (1928)				
3. The collapse of the League	the effects of the Depression the Manchurian crisis – causes and co Abyssinian crisis – causes and conse				
	• the failure of the League to avert wa	ir in 1930s			

Before Learning Journey: My target for this term

1	After Learning Journey: My target for next term
L	street cearing southey, my carget for next term

GCSE History AQA PLC Paper 2: Section A Migration, Empires and the people: 790 CE to Present day				
Торіс	l can explain	Before Learning journey	Learning challenge (mark) After Learning Journey	
Part 1: Conquered o	nd Conquers			
1. Early Britain	Introduction to the course Early Britons and the Viking invasion Alfred and the Danelaw			
In Carry Diricali	Cnut and the North Sea Empire Pt 1- Aethelred and Emma of Normandy Cnut and the North Sea Empire Pt2 - Emma of			
	 Chuc and the North Sea Empire Pt2 - Emma of Normandy and Cnut 			
2.impact of the	How did the Normans Govern England			
Norman invasion and the expansion	Henry II and the Angevin Empire			
of the Empire	 Why did the Angevin Empire collapse under King John? 			
3. The Hundred years war and its impact on England	The The Hundred years war Hundred Years war Legacy and significance of			
	the war			
Before Learning Journ	ey: My target for this term After Learning Journey: M	y target fo	or next term	

Learning Journey	GCSE History AQA PLC Paper 2: Section A Migration, Empires and the	People	(Learni	
Торіс	I can explain		Learning journey (class notes)	Learning challenge(mark)	After Learning
Part 2: Lookir	ng West				
1. Tudor	 Why did the Tudors begin to explore? 	Cabot Colonisation			
and Stuart Exploration		Sir John Hawkins			
	 Why was Piracy replaced by Plantations 				
	 The Impact of the Slave Trade on Britain 				
	 British colonies in America The Importance of Sir Walter 13 colonies 	r Raleigh			
2.	British Colonies in the Ameri				
Colonisation of the		 Impact of Native Americans Case studies: Massachusetts and James town 			
Americas	 How Does Walt Disney show 	the effect of colonisation			
	 Why did America want indep 				
	 What was the impact of the Independence 	American war of			
3. Migration	 The First 'Refugee's: The Hug 	uenots migration			
to and from Britain	 Scotland and Ireland 	Highland clearances			
		 Ulster plantations 			
Before Learnin	ng Journey: My target for this term	After Learning Journey: My	target fo	r next ter	m

	: Paper 2: Section A pires, Migration and the People: 790CE to Present	day	Loomir	J
Topic	l can explain	Learning journey (class notes)	After learning challenge(s)	After Learning Journev
Part 3: Expansion	and empire			
	How did Britain gain control of India			
1. Britain and India	The Sepoy Uprising 1857		1	
	The impact of empire on India and Britain			
	Why did Britain join the Scramble for Africa?			
2. Africa, Rhodes	The Impact of Rhodes: Should the statue of Rhodes be removed?			
and the Empire	 Why did Britain get involved in Egypt? 		1	
	 Why did Britain fight the Boer war? 		1	
	Impact of the Boer war on Africa and Britain What did The British think of their Empire?		-	
	What and the bridsh drink of their empire? Why were the Irish forced to migrate?			
	What was the impact of the Irish migration on the		-	
3. 19 th Century	empire			
migration to Britain	 What was the impact of the Jewish Migration on Britain 			
	\bullet Why did some many people migrate in the $19^{\rm th}$ C			
Before Learning Journe	Y: My target for this term After Learning Journey: My	y target f	or next ter	m

Эрі	CSE History AQA LC Paper 2: Section A ealth and the People: c10	00 to the present day		Learnit	
Торіс	l can explain		Learning journey (class notes)	After learning challenge(s)	After Learning Journey
Part 4: Britain in	the 20th and 21st Century				
	Weaking of the Empire	- Impact of WW1			
		- Impact of WW2			
1. Impact of the Wars	Post WW migration				
	 Modern diseases and treatments including alternative treatments 				
	Current healthcare issues including antibiotic resistance				
	The Windrush Generation				
2. Windrush and		Impact and reaction to the Windrush Generation			
2. Windrush and their impact	Impact and reaction to the W	indrush Generation	1		
	Impact and reaction to the W Impact of the Falklands War	indrush Generation			
their impact	 Impact of the Falklands War 				
their impact 3. legacy of empire	Impact of the Falklands War Britain and its relationship wi			-	

PI	SE History AQA LC Paper 2: Section B izabethan England c.1568-1603		Learn	
Торіс	l can explain	Learning journey (class notes)	After learning challenge	After Learning Journey
Part 1: Elizabeth	's Court and Parliament		1	
	• The background and character of Elizabeth I			
1. Elizabeth I	Court Life, including patronage		1	
and her Court	 Structure of Elizabethan government – Privy Council, Parliament, royal progresses, the Court 		1	
	Key ministers		1	
	Relations with Parliament			
2. The difficulties of a	• The problem of marriage and the succession		1	
female ruler	 The strength of Elizabeth's authority at the end of her reign, including Essex's rebellion in 1601 		1	

Before Learning Journey: My target for this term	After Learning Journey: My target for next term

	9LC Paper 2: Section B Elizabethan England c.1568-1603		Luce	
Торіс	l can explain	Learning journey (class notes)	After learning challenge	After Learning
Part 2: Life in E	lizabethan Times			
	Social structure, living standards and fashions			
	Growing prosperity and the rise of the gentry		1	
1. A 'Golden Age'	(including changes to architecture, music, & art)			
Age	The Elizabethan theatre and its achievements			
	Attitudes to the theatre			
	Reasons for the increase in poverty			
2. The poor	Attitudes and responses to poverty			
	• The reasons for government action and the		1	
	seriousness of the problem.			-
	Hawkins and Drake			
3. English Sailors	Circumnavigation 1577-1580, voyages and trade			
	The role of Raleigh			

Before Learning Journey: My target for this term	After Learning Journey: My target for next term

- PL	SE History AQA .C Paper 2: Section B Izabethan England c.1568-1603			
Торіс	l can explain	Learning journey (class notes)	After learning challenge	After Learning Journev
Part 3: Trouble a	t home and abroad			
	Elizabethan religious settlement			
	The Northern Rebellion			
1. Religious	Elizabeth's excommunication			
matters	 Catholic plots and the threat to the Elizabethan settlement including missionaries (Jesuits) 			
	 The nature, ideas and threat of the Puritans and Puritanism 			
	 Elizabeth and her government's responses and policies towards religious matters 			
	Her background			
2. Mary Queen of	Elizabeth and Parliament's treatment of Mary			
Scots	The challenge posed by Mary (including the Ridolfi Plot; Throckmorton Plot; Babington Plot)			
	Execution and its impact			
	reasons for			
3. Conflict with	• events during			
Spain	Naval warfare, including tactics and technology			
	The defeat of the Spanish Armada			

Before Learning Journey: My ta	rget for this term	After Learning Journey: My target for next term

PLO	iE History AQA C Paper 2: Section B zabethan England c.1568-1603			
Торіс	l can explain	Learning journey (class notes)	After learning challenge	After Learning
Part 4: Historic E	nvironment			
	Location			
	• Function		1	
	• The structure		1	
Lord Burghley's Almshouses	 People connected with the site: 		1	
AIMSNOUSES	• Design		1	
	 How the design reflects the culture, values, fashions of the people at the time 		1	
	 How the key features of the site have changed or stayed the same from earlier periods 		1	

Before Learning Journey: My target for this term	After Learning Journey: My target for next term





AQA GCSE HISTORY

What I will be examined on

Paper 1:	Paper 2:
Understanding the modern world	Shaping the nation
 How it's assessed Written exam: 2 hours 84 marks (including 4 marks for SPaG and specialist terminology) 50 % of GCSE 	 How it's assessed Written exam: 2 hours 84 marks (including 4 marks for SPaG and specialist terminology) 50 % of GCSE
Section A Germany, 1890-1945: Democracy and dictatorship 6 Questions 40 marks Topics to revise: Germany and the growth of democracy including: Kaiser Wilhelm; Impacts of WW1; Wei- mar Republic Germany and the depression including: impacts of; failure of Weimar Republic; establishment of Hitler's dictatorship The experiences of Germans under the Nazis including: the economy, women, youth and racial policy See PLC for more specific detail	Section A Britain: Migration, empires and the people, c790 to the present day 4 Questions 40 marks (+ 4 SPaG) Topics to revise: Conquered and conquerors including: invasion of Vikings and Anglo-Saxons; King Alfred; King Cnut and North Sea Empire Looking West including: piracy and profiteering; development and im- pact of the slave trade; colonisation in North America; Migration to/from Britain Expansion and Empire including: expansion in India; expansion in Africa; further migration to/from Britain Britain in the 20 th Century including: End of Empire; legacy of Empire; Britain's relationship with Europe. See PLC for more specific detail
<u>Section B</u> Conflict and Tension: the inter-war years, 1918-1939	<u>Section B</u> Elizabethan England, c1568-1603
4 Questions	4 Questions
40 marks (+ 4 SPaG)	40 marks
Topics to revise: Peace making including: Aims of the Peacemakers; terms of Treaty of Versailles (ToV); impact of the ToV The League of Nations including: its formation, actions (successes and failures) and its collapse Origins and outbreak of WW2 including: Development of tensions (Hitler's first steps to rearmament); escalation of tensions; out- break of war See PLC for more specific detail	 Topics to revise: Elizabeth's court and Parliament including: life at court; the difficulties of a female ruler; strength of Elizabeth's reign Life in Elizabethan times including: prosperity and achievements; poverty; exploration Troubles at home and abroad including: Religious conflict; Mary Queen of Scots; Conflict with Spain Historic Environment – Sheffield Manor See PLC for more specific detail

Helpful revision sources

CGP Revision guide

All students have been given a revision guide to use

A range of retrieval and activity booklets including:

- key knowledge questions and answer (for pupils to self-test),

- Question banks – covering the topics and different question styles (that encourage the application of knowledge)

SENECA – <u>https://senecalearning.com/en-GB/</u> Overview knowledge questions – that can be tested and retested

GCSE Pod - <u>https://www.gcsepod.com/</u> Helpful short videos linked specifically to the AQA History topics

Tutor 2u - https://www.tutor2u.net/history

Has both free and subscription resources, to help with knowledge AND exam technique

YouTube

Has a range of videos covering content and exam technique. Search for:

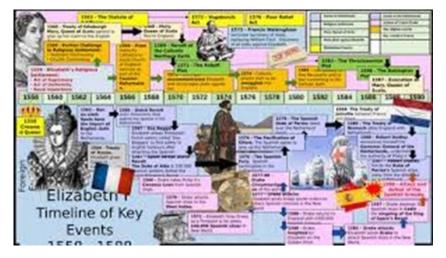
'AQA GCSE history (+topic)'

e.g., AQA GCSE history Treaty of Versailles

Podcasts (freely accessible):

'You're dead to me' - by Greg Jenner (who wrote Horrible Histories). It covers all the GCSE subjects with some key figures and events in detail. Available on BBC sounds

'The rest is history' - by Dominic Sandbrook and Tom Holland. Again, it covers our GCSE in a bit more depth and key figures and events. Available on Apple, Acast and other podcast providers





Paper 1: Living with the physical environment Section A: The challenge of natural hazards	Lear ning Jour ney: CLA SS NOT ES	Lear ning Con solid atio n: RE- VISI ON NOT ES	Lear ning Cha Ilen ge: Ex- am Que stion /9 + SPa G
Natural hazards - introduction Definition of a natural hazard.			
Types of natural hazard.			
Tectonic hazards			
Describe and explain the distribution of earthquakes and volcanoes			
Plate tectonics theory			
The physical processes taking place at different types of plate margins (constructive,			
The effects of and responses to a tectonic hazard vary between areas of contrasting			
Primary and secondary effects of a tectonic hazard.			
Immediate and long-term responses to a tectonic hazard.			
Case study of an earthquake in an LIC			
Case study of an earthquake in an HIC			
Comparison and evaluation of the levels of impacts and effectiveness of responses			
Explain why people choose to live in tectonically active areas			
Describe and explain how countries are reducing the risk of tectonic hazards by			
Weather hazards			
General atmospheric circulation model: pressure belts and surface winds.			
Global distribution of tropical storms (hurricanes, cyclones, typhoons).			
An understanding of the relationship between tropical storms and general atmospheric circulation.			
Cause of tropical storms and the sequence of their formation and development.			
The structure and features of a tropical storm			
How climate change might affect the distribution, frequency and intensity of tropi-			
Tropical storms have significant effects on people and the environment.			
Primary and secondary effects of tropical storms.			
Immediate and long-term responses to a tropical storm.			
Use named example of a tropical storm to show its effects and responses.			
How monitoring, prediction, protection and planning can reduce the effects of trop-			

Extreme weather in the UK		
Overview of types of weather hazard experienced in the UK.		
One example of a recent extreme weather event in the UK to illustrate:		
• causes		
social, economic and environmental impacts		
how management strategies can reduce risk		
Evidence that weather is becoming more extreme in the UK.		
Climate change		
Evidence for climate change from the beginning of the Quaternary period to the present day.		
Possible causes of climate change:		
Natural factors: orbital changes, volcanic activity and solar output.		
Human factors: use of fossil fuels, agriculture and deforestation		
Overview of the effects of climate change on people and the environment.		
Managing climate change:		
mitigation – alternative energy production, carbon capture, planting trees, international agreements		
adaptation – change in agricultural systems, managing water supply, reducing risk from rising sea levels.		
Prior Knowledge: Unit Learning Consolidation: Economic World Retrieval Booklet		
Current Content Unit Learning Challenge: Assessment% Grade:		

Paper 1: Living with the physical environment Section B: Living World (Ecosystems, Biomes, Tropical Rainforests and Hot Deserts)	Lear ning Jour ney: CLA SS NOT ES	Lear ning Con soli dati on: RE- VISI ON NOT ES	Lear ning Cha Ilen ge: Ex- am Que stio n /9 + SPa G
Ecosystems - introduction		Ē	I
Define what an ecosystem is and know their key components			
Describe and Explain how changes to an ecosystem can have a knock on ef- fect on its features, food chains and food webs			
Describe and explain the distribution of global biomes			
Describe explain and characteristics of biomes			
One example of a small-scale UK ecosystem, to illustrate the concept of inter- relationships within a natural system, an understanding of producers, consumers, decomposers, food chain, food web and nutrient cycle.			
Tropical rainforests			
The physical characteristics of a tropical rainforest.			
The interdependence of climate, water, soils, plants, animals and people.			
Describe and explain how plants and animals adapt to the physical environment			
Issues related to biodiversity.			
Changing rates of deforestation.			
A case study of a tropical rainforest to illustrate:			
causes of deforestation – subsistence and commercial farming, logging, road building, mineral extraction, energy development, settlement, population			
A case study of a tropical rainforest to illustrate:			
impacts of deforestation - economic development, soil erosion, loss of biodiver- sity, contribution to climate change.			
Value of tropical rainforests to people and the environment			
Strategies used to manage the rainforest sustainably:			
selective logging and replanting			
conservation and education			
ecotourism and international agreements about the use of tropical hardwoods			
debt reduction.			
Evaluation of these strategies			
Hot deserts			
The physical characteristics of a hot desert.			
The interdependence of climate, water, soils, plants, animals and people.			
Describe and Explain how plants and animals adapt to the physical conditions.			
Issues related to biodiversity.			

A case study of a hot desert to illustrate: development opportunities in hot desert environments: mineral ex- traction, energy, farming, tourism challenges of developing hot desert environments: extreme tem- peratures, water supply, inaccessibility.		
Causes of desertification: climate change population growth removal of fuel wood overgrazing over-cultivation and soil erosion. Strategies used to reduce the risk of desertification: • water and soil management,		
Prior Knowledge: Unit Learning Consolidation: Urban Retrieval Booklet Current Content Unit Learning Challenge: Assessment% Grade:		

Paper 2: Challenges in the human environment Section A: Urban issues and challenges A growing percentage of the world's population lives in urban areas	Le ar ni Jo ur ne y: CL AS S N OT ES	Lear ning Con solid atio n: RE- VISI ON NOT ES	Lear ning Chal leng e: Ex- am Que stion /9 +SP aG
Describe and explain the global pattern of urban change			
Describe urban trends in different parts of the world comparing HICs and LICs.			
Describe and explain factors affecting the rate of urbanisation – migration (push-pull theory), natural increase.			
Describe the emergence of megacities.			
Urban growth creates opportunities and challenges for cities in LICs and NEEs			
A case study of a major city in an LIC or NEE:			
Describe the location and explain the importance of the city, regionally, nationally and internationally			
Describe and explain the causes of growth: natural increase and migration			
 Explain how urban growth has created opportunities: social: access to services – health and education; access to resources – water supply, energy economic: how urban industrial areas can be a stimulus for economic development 			
 Explain how urban growth has created challenges: managing urban growth – slums, squatter settlements providing clean water, sanitation systems and energy providing access to services such as health and education reducing unemployment and crime managing environmental issues – waste disposal, air and water pollution, traffic congestion. 			
Using an example describe and explain how urban planning is improving the quality of life for the urban poor.			
Urban change in cities in the UK leads to a variety of social, economic and environ- mental opportunities and challenges.			
Describe the distribution of population and the major cities in the UK.			
A case study of a major city in the UK:			
•describe the location and explain the importance of the city in the UK and the wid-			

Describe and explain and assess how urban change has created opportunities:		
social and economic: cultural mix, recreation and entertainment, employment, integrated transport systems,		
environmental: urban greening		
Describe and explain and assess how urban change has created challenges:		
 social and economic: urban deprivation, inequalities in housing, 		
 environmental: dereliction, building on brownfield and greenfield 		
 the impact of urban sprawl on the rural-urban fringe, and the 		
Using an eventual of an urban regeneration project to describe, or		
Using an example of an urban regeneration project to describe, ex-		
 the reasons why the area needed regeneration 		
 the main features of the project. 		
Urban sustainability requires management of resources and transport.		
Urban sustainability requires management of resources and transport. Describe, explain and assess the features of sustainable urban living		
Describe, explain and assess the features of sustainable urban living		
Describe, explain and assess the features of sustainable urban living • water and energy conservation		
Describe, explain and assess the features of sustainable urban living • water and energy conservation • waste recycling		
Describe, explain and assess the features of sustainable urban living water and energy conservation waste recycling creating green space. 		
Describe, explain and assess the features of sustainable urban living water and energy conservation waste recycling creating green space. 		
Describe, explain and assess the features of sustainable urban living water and energy conservation waste recycling creating green space. Describe and explain how urban transport strategies are used to reduce traffic con-		
Describe, explain and assess the features of sustainable urban living water and energy conservation waste recycling creating green space. Describe and explain how urban transport strategies are used to reduce traffic con-		

Paper 2: Challenges in the human environment Section B: The changing economic world	Learning Journey - CLASS NOTES	Learning Consoli- dation- REVI- SION NOTES	Learning Chal- lenge: Ex- am Ques- tion /9 + SPaG
There are global variations in economic development and quality of life.			
Explain that there are different ways of classifying parts of the world according to their level of economic develop- ment and quality of life.			
Describe and explain the different economic and social measures of development: gross national income (GNI) per head, birth and death rates, infant mortality, life expectan- cy, people per doctor, literacy rates, access to safe water, Human Development Index (HDI).			
Explain the limitations of different measures of development Describe and explain the links between stages of the De-			
mographic Transition Model and the level of development. Describe and explain the causes of uneven development:			
physical, economic and historical. Describe and explain the consequences of uneven devel- opment: health, wealth and migration.			
Various strategies exist for reducing the global develop- ment gap.			
Overview of the strategies used to reduce the develop- ment gap:			
Investment			
industrial development			
• tourism			
• aid			
using intermediate technology			
fair tradedebt relief			
 microfinance loans. 			
Using an example describe and explain how the growth of tourism in an LIC or NEE helps to reduce the develop- ment gap.			

Some LICs and NEEs are experiencing rapid economic de- velopment which leads to significant social, environmental		
Explain the location and importance of the country, region	ally and globally	
Describe and explain the wider political, social, cultural and		
Outline explain the changing industrial structure of the country, the balance between different sectors of the economy and how manufacturing industry can stimulate		
Outline the role of transnational corporations (TNCs) in rela- tion to industrial development. Explain and evaluate the advantages and disadvantages of TNC(s) to the host coun-		
Describe the changing political and trading relationships		
Describe international aid and the types of aid and explain		
Describe the environmental impacts of economic develop-		
Describe the effects of economic development on quality		

Major changes in the economy of the UK have affected, and will continue to affect, employment patterns and re-		
describe and explain the causes of economic change: de- industrialisation and decline of traditional industrial base,		
describe and explain reasons for moving towards a post- industrial economy: development of information technolo- gy, service industries, finance, research, science and busi-		
Describe the impacts of industry on the physical environ- ment.		
Using an example explain how modern industrial develop- ment can be more environmentally sustainable		
Describe and explain the social and economic changes in the rural landscape in one area of population growth and one area of population decline		
Describe and explain the improvements and new develop- ments in road and rail infrastructure, port and airport ca-		
Explain the north-south divide.		
Outline strategies used in an attempt to resolve regional differences		
Describe the place of the UK in the wider world. Describe and explain the links through trade, culture, transport, and electronic communication and the economic and political links looking specifically at the European Union (EU) and		
Prior Knowledge: Unit Learning Consolidation: Living World Retrieval		
Current Content Unit Learning Challenge: Assessment%		

Paper 2: Challenges in the human environment Section C: The challenge of resource management	Lear ning Jour ney: CLA SS NOT ES	Lear ning Con soli dati on: RE- VISI ON NOT ES	Lea rnin g Cha llen ge: Ex- am Qu esti on / 9 + SPa G
Food, water and energy are fundamental to human development. Describe and explain the significance of food, water and energy to economic and			
social well-being.			
Outline the global inequalities in the supply and consumption of resources.			
The changing demand and provision of resources in the UK create opportunities and challenges.			
Outline the resources in relation to the UK.			
Food:			
• Describe and explain the growing demand for high-value food exports from low income countries and all-year demand for seasonal food and organic produce			
• Explain the reasons for larger carbon footprints due to the increasing number of 'food miles' travelled, and moves towards local sourcing of food			
Outline the resources in relation to the UK.			
Water:			
 Describe and explain the changing demand for water 			
 Describe and explain water quality and pollution management 			
• Describe and explain matching supply and demand – areas of deficit and surplus			
Explain the need for transfer to maintain supplies.			
Outline the resources in relation to the UK.			
Energy:			
• Describe and explain the changing energy mix – reliance on fossil fuels, growing significance of renewables			
Describe and explain the reduced domestic supplies of coal, gas and oil			
• Describe, explain and assess the economic and environmental issues associated			

Water		
Key Idea - Demand for water resources is rising globally but supply can be inse- cure, which may lead to conflict.		
Describe and explain areas of surplus (security) and deficit (insecurity)		
Describe an explain reasons for increasing water consumption: economic develop-		
Describe and explain factors affecting water availability: climate, geology, pollu-		
Describe, explain and assess the impacts of water insecurity – waterborne disease and water pollution, food production, industrial output, potential for conflict where demand exceeds supply.		
Key Idea - Different strategies can be used to increase water supply. Outline the strategies used to increase water supply:		
• diverting supplies and increasing storage, dams and reservoirs, water transfers		
• use an example of a large scale water transfer scheme to show how its develop-		
Explain and discuss the moving towards a sustainable resource future using:		
• water conservation, groundwater management, recycling, 'grey' water		
• use an example of a local scheme in an LIC or NEE to describe and explain how		
Prior Knowledge: Unit Learning Consolidation: Ecosystems, Deserts, TRF retrieval Booklet		
Current Content Unit Learning Challenge: Assessment% Grade:		

Spanish

Topics for Year 11 revision guide from your revision organiser

Theme 1: Identity and Culture. Topics: Me, my family and friends Technology in everyday life Free time activities Customs and festivals in Spanish speaking countries Theme 2: Local, National, International and Global areas of interest. Topics: Home, town, neighbourhood and region Charity and voluntary work Healthy living

The environment Poverty and homelessness

Travel and tourism

Theme 3: Current and Future study and employment.

Topics:

My studies Life at school Education post- 16 Jobs, career choices and ambitions

All topic related vocabulary is in GCSE knowledge organiser, together with essential grammar.



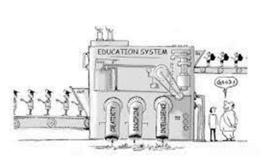


Sociology

key areas to revise: use PLC's and revision pages on One Note to support this

Social Stratification	Crime and Deviance
Revise Key definitions (highlighted in booklets)	Revise Key definitions (highlighted in booklets)
Theories- Functionism, Marxism, Feminism, interactionism	Theories- Functionism, Marxism, Feminism, interactionism, New Right
Key theorists- Davis and Moore, Devine, Weber, Murray, Town- send, Marx,	Key theorists- Becker, Carlen, Co- hen, Heidensohn, Merton
Key themes- Life chances, distri- bution of power, links to class, gender and ethnicity	Key themes- Causes of crime, dif- ferent forms of crime statistics, links to class, gender and ethnicity

Families and Households	Education	
Revise Key definitions (highlighted in booklets)	Revise Key definitions (highlighted in booklets)	
Theories- Functionism, Marxism,	Theories- Functionism, Marxism,	
Feminism, New Right	Feminism, interactionism	
Key theorists- Rapoport and	Key theorists- Ball, Ball Bowe and	
Rapoport, Oakley, Delphy and	Gerwitz, Durkheim, Parsons,	
Leonard, Parsons, Young and Wil-	Bowles and Gintis, Willis, Halsey,	
mott, Zaretsky	Heath and Ridge	
Key themes- Different family struc-	Key themes- Different school	
tures, marriage and divorce rates,	types, internal vs external factors,	
links to class, gender and ethnicity	links to class, gender and ethnicity	







Health & Social Care

Key areas to revise

Maintaining Right; LO1	Importance of Care Values LO2	
Choice, Confidentiality, Protection form abuse and harm, Equal and Fair treatment, consultation	What are they? Where are they applied?	· m ma
Why is it important – Impact of NOT applying	H&SC - Promoting equality and di- versity. Maintaining confidentiality, promoting rights and beliefs	Rub hands palm to palm Rub hands palm to palm How to 7 steps handwash with soap and water
Complaints procedures	EY – Welfare paramount, keeping children safe, partnership families, encouraging learning, valuing diver- sity, equality of opportunity	Progress interlocated Thumbis clasped in pairs
Providing advocacy	Why are they important? Reflective practice, Effects on PIES if not applied	

What does legislation do? LO3	Personal Hygiene LO4
Vulnerable groups covered	Protecting individuals
Equality Act 2010, Children's Act 2004, Data protection Act 1998, HASAWA 1974, MH Act 2007	Safety procedures emergency, moving and handling
How legislation impacts service users, providers	Methods for reducing spread of infection, methods for reducing risks and dangers
Legislation as a system of re- dress	Procedures to prevent accidents and promote good practice



Creative I Media

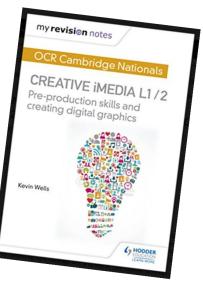
• Pre-production documents – what are they and what elements do they include?

- •
- Client briefs
- •
- Mood boards
- •
- Mind maps
- •
- Visualisation diagrams
- •
- Storyboards
- •
- Scripts
- •
- Workplans
- •
- Location recce
- •
- Media legislation
- •
- Target audience, primary and secondary research
- •
- Hardware and software
- •
- Health and safety requirements
- •
- File formats









Catering

REVISION TOPICS

SUBJECT: AQA FOOD PREPARATION AND NUTRITION

T O P I C/A R E A				
Food, Nutrition and Health				
Protein, Fats and Carbohydrates				
Vitamins and Minerals	AAC .			
Fibre and Water	EXAM BASICS			
Healthy eating guidelines	• 1hr 45mins (50% of your overall grade)			
Nutritional needs	You need to know everything from the course			
Diet related health problems	• 80 marks (20 are multiple choice)			
Energy needs	Less than one minute per mark			
Nutritional Analysis				
Planning meals for different groups	Answer ALL questions (have a go) PEE			
Food Science	• PEE PASS M			
Why is food cooked	NAK.			
Heat transfer and cooking methods	Adk			
Changing properties	Exam Technique Read the question at least twice – WHAT is it asking? Look for command words			
Raising agents	PASS []			
Food safety	How many marks is it worth? (don't spend 10 minutes on a 4 mark question)			
Food spoilage	If a question is worth 4 marks have you made 4 comments/answers?			
Storing food safely and preparing food safely	Do not leave any BLANKS – have a go! Use common sense, you know more than you think you do!			
Food poisoning	Relate back to the question			
Uses of microorganisms				
Food choice	Answer the question not what you think the question is!			
Influences on food choice	Check at the end – have you given enough info/detail/points to get the marks			
Cultural religious and moral food choices	Nåk			
Food labelling and Influences of marketing				
Food provenance	Command Words State: express clearly and briefly to give a blot, countrated date but			
Grown food and GM crops	Evaluate: judge from available evidence Describe: set out characteristics vidence			
Reared food and Caught food	To write a doubt dises the importance quality or value of study, children in the importance of the following when the importance of the following when the importance the importance of the following when the importance of the importance the importance of the following when the importance the impo			
Waste food and Packaging	program grant convergence d) Instant Agriculture and Angeletists to Construct and Angeletists			
Food miles and carbon footprint	Discast: prosent key points about Discast: prosent key points about Output			
Global food production	Disease present any point should different disease is strengthand Explaint: set out purposes or reasons Outline divergenced * Instructure of an idea. * with adda semigrational strengthand * With adda semigrational semigration semigrational semigrational semigrational semigrational			
Primary food processing and Secondary food processing	Comparison of the second			
Food fortification and modification	a word, term or printee. a word, term or printee. default terms of closely global reading to the terms of closely global.			
Additives				

Use **GCSEbitesize** for content, short video clips and tests (make a note of your test scores <u>https://www.bbc.co.uk/</u> <u>bitesize/subjects/zdn9jhv</u>

Use GCSEpod for short podcasts on most if the topics. <u>https://members.gcsepod.com/shared/podcasts#6006/6013</u>

SENECA



Catering

U S E F U L A P P S/B L O G S/B O O K S E T C
GCSE Food Preparation& Nutrition For AQA (Grade 9-1)
AQA GCSE Food Preparation and Nutrition (Anita Tull Gary Little wood)
https://www.aqa.org.uk/subjects/food/gcse/food-preparation-and-nutrition-8585
https://www.illuminate.digital/aqafood/ (username and password available – see teams)
https://foodafactoflife.org.uk/14-16-years/
Useful you tube experiments
https://www.youtube.com/watch?v=0oaQVdSXR48&app=desktop
Different flours > amount of gluten > stretching dough
https://www.youtube.com/watch?v=0USi4DbRVVQ
Raising agents
https://www.youtube.com/watch?v=bJ7uXScRTWw
Coagulation
https://www.youtube.com/watch?v=vg5k6t6uZwE
Conduction of heat
https://www.youtube.com/watch?v=xyQY8a-ng6g
Effects of food on your brain
https://www.youtube.com/watch?v=JIhhAPxEY6I
Food contamination
https://www.youtube.com/watch?v=2QQvhFPZedM
Foodborne illnesses (11mins)
https://www.youtube.com/watch?v=eKaBQrFdNtw
Digestion (7mins)
https://www.youtube.com/watch?v=9iMGFqMmUFs
What happens If we do not drink water (5mins)
http://ed.ted.com/lessons/how-the-food-you-eat-affects-your-brain-mia-nacamulli
How the food we eat affects our brain
http://ed.ted.com/lessons/what-is-a-calorie-emma-bryce
What is a calorie?
http://www.bbcgoodfood.com/videos/techniques/knife-skills
Knife skills
https://www.youtube.com/watch?v=TGSgZiEUdYw
4 Cshttps://www.youtube.com/watch?v=8aWqZd9RScQ
Eatwell Guide
https://www.youtube.com/watch?v=UyDqrhQLOHM
https://www.youtube.com/watch?v=iQ0dvzA1ynY
Intro to food allergens
https://www.youtube.com/watch?v=rNARXt01Gr0
Intro to Food room – safety & hygiene
https://www.youtube.com/watch?v=RkdBKb0nokM
Hugh's fat fight
https://www.bbc.co.uk/iplayer/episode/b0b0y27w/britains-fat-fight-with-hugh-fearnleywhittingstall-series-1-episode-1

TOP REVISION TIPS!

Plan out a revision schedule

Make flash cards from the revision power point given

Don't revise while hungry

Practice, Practice, Practice

OCR Sport Science

LO1 : Understand different factors which influence the risk of injury, **Entlinsbi**tnsic risk factors of injury LEARNINGOUTCOMES Identify the 5 different extrinsic risk factors which can influence injury Describe/explainhow the type of activity can cause an injury Describe/explainhow coaching/supervision can cause an injury Describe/explain howequipment can cause an injury Describe/explainhow safety hazards can cause an injury Describe/explainhow environmental factors can cause an injury Identify the 5 different intrinsic risk factors which can influence injury Describe/explainhow physical preparation can cause an injury Describe/explain howindividual variables can cause an injury

- Describe/explain howpsychological factors can cause an injury
- Describe/explainhow posture and causes of poor posture can cause an injury
- Describe/explainhow sports injuries related to poor posture can cause an injury



MOTIVATION





	OMPONENTS OF A WARM UP		LO2: Under	lerstand how appropriate warm up & cool Down routines can help to prevent injury LEARNING OUTCOMES
KEY C		ufra.	1 The Phy	nysical benefits of a warm up
PULSE	JASAM CARE	al.	2 The psy	sychological benefits of a warm up
-			3 Key com	omponents of a warm up
STRETCHIN			4 Physical	al benefits of a cool down
	decadu.		5 Specific	ic needs which a warm up and cool down must consider
	LO3: know how to respond to injuries within a s LEARNING OUTCOMES	porting o	ntext	
1	Define acute injury and provide an example of one			
2	Define chronic injury and provide an example of one			
3	What does R.I.C.E stand for?			
4	Identify 2 soft tissue injuries			
5	How is a sprain caused? Provide a sporting example			
6	How is a strain caused? Provide a sporting example			Achiles Tendon
7	How are shin splits caused?			
8	Define Severs disease?			
9	Define Osgood Schlatters disease?			Carter Trans
10	Define cramp and explain how is it treated?			of there fenzy
11	Define splints and explain what taping used for?			Han Ince
12	Identify the 3 parts of an emergency action plan?			cardbage in / main texts given in / Titis - Titis - Para and senting occur transition of the senting occur
			LO4:	R: Know how to respond to injuries within a sporting context.
P		1	evelop knowle	ledge and understanding of common medical conditions
		2	esearch and ex	explain the symptoms of common medical conditions
M	SHAKING		esearch and ex	explain how to treat common medical conditions
		4	reate and answ nedical condition	swer exam style questions of the symptoms and treatment of common cions

Business Studies

OCR Level 1/2 Cambridge National Certificate in Enterprise and Marketing J819

Understand how to target a market		
The need for customer segmentation		
Types of market segmentation		
The benefits of market segmentation		
The purpose of market research		
Primary (field) market research methods (physical or digital) and their benefits		
Secondary (desk) market research sources and their benefits		
The types of customer feedback techniques available to business start-ups		
Understand what makes a product or service financially viable		
Cost of producing the product or service		
Revenue generated by sales of the product or service		
Use of break-even as an aid to decision making,		
Break-even graphs - interpretation of a break-even graph in order to identify the break-		
How profit per unit is calculated		
Understand product development		
The product lifecycle • Development • Introduction • Growth • Maturity • Decline		
Extension strategies for products in the product lifecycle and the appropriateness of each		
How to create product differentiation		
The impact of external factors on product development		
Understand how to attract and retain customers		
Factors to consider when pricing a product to attract and retain customers		
Types of pricing strategies and the appropriateness of each		
Types of advertising methods used to attract and retain customers and the appropriateness		
Sales promotion techniques used to attract and retain customers and the appropriateness		
How customer service is used to attract and retain customers		
Understand factors for consideration when starting up a business		
Appropriate forms of ownership for business start-ups		
Source(s) of capital for business start-ups		
The importance of a business plan		
Understand different functional activities needed to support a business		
The purpose of each of the main functional activities that may be needed in a new busi-		
The main activities of each functional area		

Computer Science

ent storage devices and storage media

Unit 1

relating to these characteristics: **1.1 System Architecture** Capacity 1.1.1 Architecture of the CPU Speed The purpose of the CPU: Portability The fetch-execute cycle Durability Common CPU components and their function: Reliability ALU (Arithmetic Logic Unit) Cost CU (Control Unit) 1.2.3 Units Cache The units of data storage: Registers Bit Von Neumann architecture: Nibble (4 bits) MAR (Memory Address Register) Byte (8 bits) MDR (Memory Data Register) Kilobyte (1,000 bytes or 1 KB Program Counter Megabyte (1,000 KB) Accumulator Gigabyte (1,000 MB) 1.1.2 CPU performance Terabyte (1,000 GB) How common characteristics of CPUs affect Petabyte (1,000 TB) their performance: How data needs to be converted into a bina-Clock speed ry format to be processed by a computer Cache size Data capacity and calculation of data capac-Number of cores ity requirements 1.1.3 Embedded systems The purpose and characteristics of embedded 1.2.4 Data storage systems Numbers Examples of embedded systems How to convert positive denary whole 1.2 - Memory and storage numbers to binary numbers (up to and including 8 bits) and vice versa 1.2.1 Primary storage (Memory) How to add two binary integers to-The need for primary storage gether (up to and including 8 bits) The difference between RAM and ROM and explain overflow errors which The purpose of ROM in a computer system may occur The purpose of RAM in a computer system How to convert positive denary whole Virtual memory numbers into 2-digit hexadecimal 1.2.2 Secondary storage numbers and vice versa The need for secondary storage How to convert binary integers to their Common types of storage: hexadecimal equivalents and vice Optical versa Magnetic **Binary shifts** Solid state Suitable storage devices and storage media for a given application The advantages and disadvantages of differ-

Computer Science

Characters The use of binary codes to represent characters The term 'character set' The relationship between the number of bits per character in a character set, and the number of characters which can be represented, e.g.: ASCII Unicode Images How an image is represented as a series of pixels, represented in binarv Metadata The effect of colour depth and resolu- 1.3.2 Wired and wireless networks, protocols and layers tion on: The quality of the image The size of an image file Sound How sound can be sampled and stored in digital form The effect of sample rate, duration and bit depth on: The playback quality The size of a sound file 1.2.5 Compression The need for compression Types of compression: Lossy Lossless 1.3 Computer networks, connections, and protocols 1.3.1 Networks and topologies Types of network: LAN (Local Area Network) WAN (Wide Area Network) Factors that affect the performance of networks The different roles of computers in a clientserver and a peer-to-peer network The hardware needed to connect stand-

alone computers into a Local Area Network: Wireless access points Routers **Switches** NIC (Network Interface Controller/ Card) Transmission media The Internet as a worldwide collection of computer networks: DNS (Domain Name Server)

Hosting

The Cloud Web servers and clients Star and Mesh network topologies Modes of connection: Wired Ethernet Wireless Wi-Fi Bluetooth Encryption IP addressing and MAC addressing Standards Common protocols including: TCP/IP (Transmission Control Protocol/ Internet Protocol) HTTP (Hyper Text Transfer Protocol) **HTTPS (Hyper Text Transfer Protocol** Secure) FTP (File Transfer Protocol) POP (Post Office Protocol) IMAP (Internet Message Access Protocol) SMTP (Simple Mail Transfer Protocol) The concept of layers

Computer Science

1.4 - Network security

1.4.1 Threats to computer systems and networks Forms of attack: Malware Social engineering, e.g. phishing, people as the 'weak point' Brute-force attacks Denial of service attacks Data interception and theft The concept of SQL injection 1.4.2 Identifying and preventing vulnerabilities Common prevention methods: **Penetration testing** Anti-malware software Firewalls User access levels Passwords Encryption Physical security 1.5 – Systems software 1.5.1 Operating systems The purpose and functionality of operat-

ing systems:

User interface

Memory management and mul-

titasking

Peripheral management and drivers

User management

File management

1.5.2 Utility software

The purpose and functionality of utility software

Utility system software:

Encryption software Defragmentation Data compression

1.6 – Ethical, legal, cultural and environmental impacts of digital technology

1.6.1 Ethical, legal, cultural and environmental

impact Impacts of digital technology on wider society including: **Ethical issues** Legal issues **Cultural issues Environmental issues** Privacy issues Legislation relevant to Computer Science: The Data Protection Act 2018 Computer Misuse Act 1990 **Copyright Designs and Patents** Act 1988 Software licences (i.e. open source and proprietary)

Revision topic checklist

Revision			
Торіс	Additional info (how will I do this? Where will I find the info I need?)	Done!	

KEY WORDS