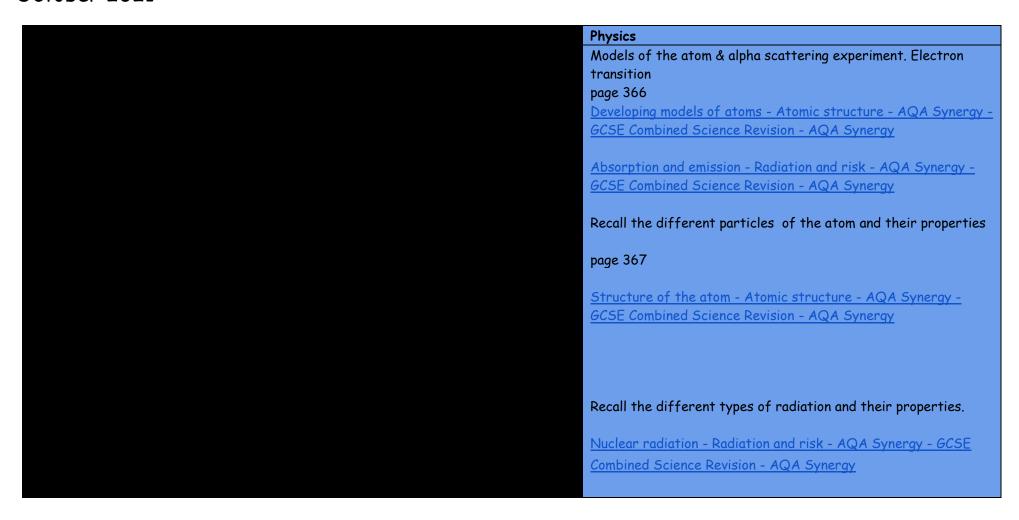
# Grade 9-1 AQA Synergy Year 11 Revision Planner 2021-22

27/09/2021			
Biology	Chemistry		
Cells - Eukaryotic	Recall the differences elements,		
<u>Light microscopes - Cells in animals and</u>	compounds & mixtures		
plants - AQA Synergy - GCSE Combined	<u>Pure substances and mixtures - Mixtures</u>		
Science Revision - AQA Synergy	- AQA - GCSE Combined Science Revision		
pages 1,2,3 and 4	- AQA Trilogy		
Educake 1	page 189		
<u>Educake</u>			
Cells - Prokaryotic	Define endothermic and exothermic		
<u>Light microscopes - Cells in animals and</u>	reactions		
plants - AQA Synergy - GCSE Combined	Reaction profiles - Energy, rates and		
Science Revision - AQA Synergy	reactions - AQA Synergy - GCSE		
pages 4-6	Combined Science Revision - AQA		
Educake 2	Synergy		
<u>Educake</u>			
	Name group 1, 7 & 0 + transition metals on		
	the Periodic Table		
	<u>Group 0 - Groups in the periodic table -</u>		
	AQA Synergy - GCSE Combined Science		
	Revision - AQA Synergy		
	page 210		
	Explain the physical & chemical properties		
	of metals		
	<u>Properties of metals - Metals - AQA</u>		
	Synergy - GCSE Combined Science		
	Revision - AQA Synergy		

### October 2021



How to calculate activity and half life.

<u>Half-life - Radiation and risk - AQA Synergy - GCSE Combined</u> <u>Science Revision - AQA Synergy</u>

Pg 376

### 04/10/2021

Biology	Chemistry	Physics
Communicable and non-communicable	Explain and describe the reactivity of	Atomic mass, number & nuclear equations.
Diseases  Health and disease - Lifestyle and health - AQA Synergy - GCSE Combined Science Revision - AQA Synergy	group 1 metals  Group 1 - Groups in the periodic table -  AQA Synergy - GCSE Combined Science  Revision - AQA Synergy	Radioactive decay - Radiation and risk - AQA Synergy - GCSE  Combined Science Revision - AQA Synergy
pages 1,2,3 Educake 3 Educake	page 210 Recall how the periodic table was developed	Contamination and irradiation - Radiation and risk - AQA Synergy - GCSE Combined Science Revision - AQA Synergy
Body Defences and treatments		Cancer: Cause and cure.

Non-specific defence systems -Preventing, treating and curing diseases -AQA Synergy - GCSE Combined Science Revision - AQA Synergy

pages 1,2,3,4 Educake 4 Educake Mendeleev's periodic table - The periodic table - AQA Synergy - GCSE Combined Science Revision - AQA Synergy

Locate the metals and non-metals on the Periodic Table

Metals versus non-metals - The periodic table - AQA Synergy - GCSE Combined Science Revision - AQA Synergy

### Explain what alloys are

Chamistay

Alloys - Metals and alloys - AQA - GCSE Combined Science Revision - AQA Trilogy <u>Ionising radiations - Radiation and risk - AQA Synergy - GCSE</u> <u>Combined Science Revision - AQA Synergy</u>

What is cancer? - Radiation and risk - AQA Synergy - GCSE Combined Science Revision - AQA Synergy

#### Page 377

Revise all wave properties - longitudinal and transverse

<u>Properties of waves - Waves - AQA Synergy - GCSE Combined</u> Science Revision - AQA Synergy

pg 416

Recall all parts of the EM Spectrum and their uses

<u>Electromagnetic waves - Waves - AQA Synergy - GCSE</u>
Combined Science Revision - AQA Synergy

pg417

#### 11/10/2021

Dieless

Biology	Chemistry	Friysics	
Hormones in humans	Describe the reaction when we add a		
	metal and acid	Energy Resources:	
Reproductive hormones - Reproduction	Reactions of acids with metals - Acids and	Be able to recall the main energy resources used for generating	
and fertility - AQA Synergy - GCSE	alkalis - AQA Synergy - GCSE Combined	electricity/ transport and heating, with advantages and	
Combined Science Revision - AQA	Science Revision - AQA Synergy		
Synergy		disadvantages	
pages 1,2	Revise atomic structure	Types of energy resource - Energy resources - AQA Synergy -	
<u>Educake</u>		GCSE Combined Science Revision - AQA Synergy	

Menstrual cycle and contraception  Reproductive hormones - Reproduction and fertility - AQA Synergy - GCSE Combined Science Revision - AQA Synergy pages 2,3 Educake 5&6 Educake	Structure of the atom - Atomic structure - AQA Synergy - GCSE Combined Science Revision - AQA Synergy page 182 Revise conservation of mass Law of conservation of mass - Calculations in chemistry - AQA Synergy - GCSE Combined Science Revision - AQA Synergy  Compare simple molecules & giant covalent structures Giant covalent structures - Covalent bonding - AQA Synergy - GCSE Combined Science Revision - AQA Synergy page 190	Energy stores and transfers: Recall the main energy stores and describe an energy transfer  All equations for calculating energy Energy change calculations - Energy resources - AQA Synergy - GCSE Combined Science Revision - AQA Synergy  Reduce unwanted energy transfer. Preventing unwanted energy transfers - Energy resources - AQA Synergy - GCSE Combined Science Revision - AQA Synergy Use/complete Sankey diagrams and calculate efficiency using the equation  Energy efficiency - Energy resources - AQA Synergy - GCSE Combined Science Revision - AQA Synergy
		Pg318 - 319
18/10/2021		
Biology	Chemistry	Physics
Respiration and the lungs Levels of organisation - Exchange surfaces and transport systems - AQA	Revise properties of ionic substances.  Go through whole chapter:  Forming ions - Ionic compounds - AQA	Properties of magnets / magnetic materials
Synergy - GCSE Combined Science Revision - AQA Synergy pages 2,3,4 Educake 7	Synergy - GCSE Combined Science  Revision - AQA Synergy  Describe covalent bonding	Describe/draw shape of field lines around a bar magnet and the Earth and describe the interaction between Plotting compasses and a magnetic field
Educake The heart and blood vessels Levels of organisation - Exchange surfaces and transport systems - AQA	Covalent bonds - Covalent bonding - AQA Synergy - GCSE Combined Science Revision - AQA Synergy	Magnets - Magnetism and electromagnetism - AQA Synergy - GCSE Combined Science Revision - AQA Synergy

pg426

Describe the properties of simple covalent compounds

Synergy - GCSE Combined Science

Revision - AQA Synergy

pages 5,7,8

Educake 8 Educake	Educake po		Properties of small molecules and polymers - Covalent bonding - AQA Synergy - GCSE Combined Science Revision - AQA Synergy		a "current carrying wire", the magnetic nd how to change the strength of the
		How does temperature affect the rate of reaction  Rates and temperature - Rates of reaction - AQA Synergy - GCSE Combined  Science Revision - AQA Synergy  page 258		AQA Synergy - GCSE Synergy Explain what a soleno Electromagnets - Mag	id is and how it is useful in everyday life.  gnetism and electromagnetism - AQA  pined Science Revision - AQA  pined Science Revision - AQA Synergy
25	26	27	28	29	30
Half term  Use this time to catch up on any topics you may be behind on				Half term	

# November 2021

Biology	Chemistry	Physics
Relationships and factors	How does concentration affect the rate of reaction	Differences between Scalar and Vector quantities with
Levels of organisation - Ecosystems and biodiversity - AQA Synergy - GCSE Combined Science Revision - AQA Synergy	Rates, concentration and pressure - Rates of reaction - AQA Synergy - GCSE Combined Science Revision - AQA	examples  Difference between weight and mass including equation
pages 1,2,3,4,5	Synergy Page 258 How does surface area affect the rate of	Mass and weight - Energy changes - AQA Synergy - GCSE  Combined Science Revision - AQA Synergy
Sampling techniques and Classification  Levels of organisation - Ecosystems and biodiversity - AQA Synergy - GCSE  Combined Science Revision - AQA  Synergy pages 6,7  Classification - Evolution - AQA Synergy - GCSE Combined Science Revision - AQA  Synergy	reaction  Rates and surface area to volume ratio - Rates of reaction - AQA Synergy - GCSE  Combined Science Revision - AQA  Synergy Page 258  Revise rates experiments  Required practical - investigate the rate of reaction by colour change - Rates of reaction - AQA Synergy - GCSE Combined  Science Revision - AQA Synergy Page 258	Contact/ Non-Contact and Resultant forces.  Contact and non-contact forces - Forces - AQA Synergy - GCSE Combined Science Revision - AQA Synergy Pg386
	Revise electrolysis  Electrolysis of molten salts - Electrons and chemical reactions - AQA Synergy - GCSE Combined Science Revision - AQA Synergy page 240	

08/11/2021		
Biology	Chemistry	Physics
3,	· ·	•
Recap week 1	Revise the pH scale	Force on a spring - Hooke's law equation
cells	Acidic and alkaline solutions - Acids and	Elastic deformation - Energy changes - AQA Synergy - GCSE
	alkalis - AQA Synergy - GCSE Combined	Combined Science Revision - AQA Synergy
Recap week 2	Science Revision - AQA Synergy	
Diseases	Revise metallic bonding	Energy stored in the spring - be able to use the equation
	Structure and bonding in metals - Metals	
	- AQA Synergy - GCSE Combined Science	Sketch the graph of Force against extension
	Revision - AQA Synergy	Energy stored in a spring - Energy changes - AQA Synergy -
		GCSE Combined Science Revision - AQA Synergy
	Recall how to calculate the mean	
	Mean - Mean, median, mode and range -	Pg387
	KS3 Maths Revision	Motion:
	Practice drawing graphs	Speed and distance v Velocity and displacement
	Constructing a line graph - Obtaining,	Speed and velocity - Motion - AQA Synergy - GCSE
	analysing and evaluating results - WJEC -	Combined Science Revision - AQA Synergy
	GCSE Physics (Single Science) Revision -	
	<u>WJEC</u>	All motion equations
	Learn that solids have a high density and	
	gases have the lowest density	Pg396
	Solids, liquids and gases - States of	S
	matter - AQA Synergy - GCSE Combined	Distance time graphs and Velocity time graphs
	Science Revision - AQA Synergy	Distance-time graphs - Motion - AQA Synergy - GCSE
		Combined Science Revision - AQA Synergy  Combined Science Revision - AQA Synergy
	Density - States of matter - AQA	Pq397
	Synergy - GCSE Combined Science	19397
	Revision - AQA Synergy	

15/11/2021		
Biology	Chemistry	Physics
Recap week 3	Revise the sub-atomic particles (learn the	Newton's 3 laws:
Hormones	table off by heart!!)	Definitions including the equation that goes with the 2 <sup>nd</sup> law.
	<u>Structure of the atom - Atomic structure</u> - AQA Synergy - GCSE Combined Science	Newton's first law - Newton's laws - AQA Synergy - GCSE Combined Science Revision - AQA Synergy
Recap week 4	Revision - AQA Synergy	Pg406
Respiration and the Heart	Write down quick step by steps on how to	19.00
	make crystals	Stopping Distances including factors affecting stopping
	Making soluble salts from insoluble	distances
	substances - Acids and alkalis - AQA	Stopping distances - Newton's laws - AQA Synergy - GCSE
	Synergy - GCSE Combined Science	Combined Science Revision - AQA Synergy
	Revision - AQA Synergy	Work done equation.
	Practice drawing atoms	
		Pg407
		Motion Under free fall

	Electronic structure - The periodic table - AQA Synergy - GCSE Combined Science Revision - AQA Synergy  Learn the definition for an isotope Isotopes - Atomic structure - AQA Synergy - GCSE Combined Science Revision - AQA Synergy	Be able to explain an object's motion as it falls, using Newton's 1 <sup>st</sup> & 2 <sup>nd</sup> law and the phrase "terminal velocity"  Free fall - Motion - AQA Synergy - GCSE Combined Science Revision - AQA Synergy pg397	
22/11/2021			
Mocks Begin			