

Subject	Triple Science - Physics
Specification	AQA
Recommended Revision Guides	Available through School Gateway: Collins GCSE Grade 9-1 Revision - AQA GCSE 9-1 Physics All-in-One Complete Revision and Practice.
Recommended websites and other resources	https://cognitoedu.org/home Access Sparxscience using the Sparxmaths login - https://sparxmaths.com/ One stop revision checklists.

Link to the GCSE Specification :	*****Click here for the specification*****
Year 11 Science Revision Google Classroom Code:	5dz44fe
Link to the Year 11 Science Revision Google Classroom:	*****Click here for the Year 11 Revision Google Classroom*****

Paper 1 - Topic 1 - Energy

Spec Ref	Spec Page	Topic 1 - Energy	Kerboodle Module	Video Link	SPARX Independent Learning Code
4.1.1.1	18	Energy stores and systems	P1	Video link – Energy stores, systems and work	R393
4.1.1.2	18/ 19	Changes in energy – KE, GPE, EPE	P1	Video link - Kinetic Energy (KE) Video link - Gravitational Potential Energy (GPE) Video link - elastic potential energy (EPE) and spring constant	R704 R802 R751
4.1.1.3	20	Energy changes and systems ***RP1***	P2	Video link - Specific Heat Capacity	R544 R251
4.1.1.4	21	Power	P1	Video link - power and work done	R602
4.1.2.1	21	Energy transfers in system***RP2***	P1 P2	Video link – Conservation of energy Video link - reducing energy loss. Insulation and lubrication	R606 R384 R312 R593
4.1.2.2	22	Efficiency	P1	Video link - efficiency	R666
4.1.3	23	National and Global Energy Resources	P3	Video link - energy sources Video link - wind and solar Video link - Geothermal energy Video link - bio fuels Video link - Hydroelectric and tidal	R496 R911 R476
Links to paper questions on this topic: Past paper question on Energy					

Paper 1 - Topic 2 - Electricity

4.2.1.1	24	Standard circuit diagram symbols	P4	Video link - components	R780
4.2.1.2	24/ 25	Electrical charge and current	P4	Video link - Intro to circuits Video link - current and charge	R274
4.2.1.3	25	Current, resistance and potential difference ***RP3***	P4	Video link - V=IR graphs	R779 R658 R959 R238 R439
4.2.1.4	26/27	Resistors ***RP4***	P4	Video link - resistors	R831
4.2.2	27/ 28	Series and parallel circuits	P4	Video link - series circuits Video link - Parallel circuits	R955 R409 R302 R752
4.2.3.1	28	Direct and alternating potential difference	P5	Video link - AC and DC	R499
4.2.3.2	29	Mains electricity	P5	Video link - wires and plugs Video link - Fuses and Earthing	R121 R361
4.2.4.1	29	Power	P5	See power video	R773

4.2.4.2	30	Energy transfers in everyday appliances	P5	Video link - energy transfer by appliances	R490 R145 R815
4.2.4.3	30	The National Grid	P5	Video link - The national grid	R507
4.2.5.1	30/31	Static charge (Physics only)	P5	Video link - static electricity	R147
4.2.5.2	31	Static charge (Physics only)	P5	Video link - electric fields	R151
Links to paper questions on this topic: Past paper question on Electricity					

Paper 1 - Topic 3 – Particle Model of Matter

4.3.1.1	32/33	Density of materials ***RP5***	P6	Video link - density	R136
4.3.1.2	33	Changes of state	P6	Video link - states of matter	R252 R128 R161 R791
4.3.2.1	33	Internal energy	P6	Video link - Internal energy and specific heat capacity	R621
4.3.2.2	34	Temperature changes in a system and specific heat capacity	P6	See video link above	R527
4.3.2.3	34/35	Changes of state and specific latent heat	P6	Video link - Specific latent heat	R641 R927
4.3.3.1	35	Particle motion in gases	P6	Video link - gas pressure	R614
4.3.3.2	36	Pressure in gases (physics only)	P6	Video link - pressure and volume in gases	R951
4.3.3.3	36	Increasing the pressure of a gas (physics only) (HT only)	P6	See above video	R989
Links to paper questions on this topic: Past paper questions on the Particle Model of Matter					

Paper 1 - Topic 4 – Atomic structure

4.4.1.1	37	The structure of an atom	P7	Video link - atomic structure and isotopes	R139
4.4.1.2	37	Mass number, atomic number and isotopes	P7	See above video	R548 R767 R889
4.4.1.3	38	The development of the model of the atom (common content with chemistry)	P7	Video link - development of model of the atom	R617
4.4.2.1	39	Radioactive decay and nuclear radiation	P7	Video link - radioactive decay	R316 R937
4.4.2.2	40	Nuclear equations	P7	Nuclear equations	R193
4.4.2.3	40/41	Half-lives and the random nature of radioactive decay	P7	Video link - radioactivity and half life	R549 R905
4.4.2.4	41	Radioactive contamination	P7	Video link - contamination	R661
4.4.3.1	42	Background radiation (physics only)	P7	Video link - background radiation	R690
4.4.3.2	42	Different half-lives of radioactive isotopes (physics only)	P7		R316
4.4.3.3	42	Uses of nuclear radiation (physics only)	P7	Video link - uses of radiation	R388
4.4.4.1	43	Nuclear fission (physics only)	P7	Video link - Nuclear fission	R345
4.4.4.2	43	Nuclear fusion (physics only)	P7	Video link - Nuclear fusion	R370 R851
Links to paper questions on this topic: Past paper questions on the Atomic structure					

RP	Required Practical Name	Video of Required Practical	SPARX Independent Learning Code
1	Specific Heat Capacity	Video – Specific Heat Capacity RP	R251
2	Thermal insulators	Video - Thermal insulation RP	R312
3	Factors affecting resistance	Video link - resistance of a wire RP Video link - resistors in series and parallel RP	R831
4	V=IR characteristics	Video link - IV characteristics RP	R439

5	Density of materials	Video link - Density RP	R128
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