



KS4 Physics Homework



AQA Higher Tier Separate Science

Create a set of revision notes for the topic that is stated.
Your teacher will provide you with an exam question on that topic during lesson when the homework is complete.

Date set	Topic	CGP Revision guide page number	Evidence
P1 - Energy			
	Energy stores & systems	11	
	Kinetic & potential energy stores	12	
	Specific heat capacity	13	
	Conservation of energy & power	14	
	Conduction & convection	15	
	Reducing unwanted energy transfers	16	
	Efficiency	17	
	Energy resources & their uses	18	
	Wind, solar & geothermal	19	
	Hydro-electricity, waves & tides	20	
	Bio-fuels & non-renewables	21	
	Trends in energy resources use	22	
P2 – Electricity			
	Current & circuit symbols	24	
	Resistance	25-26	
	Circuit devices	27	
	Series & parallel circuits	28-29	
	Investigating resistance	30	
	Electricity in the home	31	
	Power	32-33	
	The national grid	34	
	Static electricity	35	
	Electric fields	36	
P3 – Particle model of matter			

	Density of material	38	
	Internal energy & changes of state	39	
	Specific latent heat	40	
	Particle motion in gases	41	
P4 – Atomic structure			
	Developing the model of the atom	43	
	Isotopes & nuclear radiation	44	
	Nuclear equations	45	
	Half-life	46	
	Background radiation and contamination	47	
	Uses and risk	48	
	Fission and fusion	49	
P5 - Forces			
	Contact & non-contact forces	51	
	Weight, mass & gravity	52	
	Resultant forces & work done	53	
	Calculating forces	54	
	Forces and elasticity	55	
	Investigating springs	56	
	Moments	57	
	Fluid pressure	58	
	Upthrust and atmospheric pressure	59	
	Distance, displacement, speed & velocity	60	
	Acceleration	61	
	Distance-time & velocity-time graphs	62	
	Terminal velocity	63	
	Newton's laws	64-65	
	Investigating motion	66	
	Stopping distances	67 & 69	
	Reaction times	68	
	Momentum	70	
	Changes in momentum	71	
P6 - Waves			
	Transverse & longitudinal	73	

	Experiments with waves	74	
	Reflection	75	
	Electromagnetic waves and Refraction	76	
	Investigating light	77	
	Radio waves	78	
	EM waves & their uses	79-80	
	Dangers of electromagnetic waves	81	
	Lenses	82	
	Images and ray diagrams	83	
	Concave lenses and magnification	84	
	Visible light	85	
	Infrared radiation and temperature	86	
	Black body radiation	87	
	Sound waves	88	
	Ultrasound	89	
	Exploring structures using waves	90	
P7 – Magnetism & electromagnetism			
	Permanent & induced magnets	92	
	Electromagnetism	93	
	The motor effect	94	
	Electric motors and loudspeakers	95	
	The generator effect	96	
	Generators and microphones	97	
	Transformers	98	
P8 – Space physics			
	The life cycle of stars	100	
	The solar system and orbits	101	
	Red-shift and the Big Bang	102	

If you do not have the CPG book then you can find similar material on Kerboodle and Bitesize.