



Year 11 Six Week Plan paper 1 & Paper 2

Subject: SS Physics

	Paper 1 Key areas of focus for independent learning	Paper 1 Key areas of focus for extending your learning	Paper 2 Key areas of focus for independent learning.	Paper 2 Key areas of focus for extending your learning.
1	<u>Energy stores and Resources</u> Changes in energy stores Conservation of energy Energy and work Types of energy stores Energy and power energy and efficiency (Higher only increasing efficiency) Conduction Radiation Specific heat capacity (include required practical) Heating and insulating buildings Energy demands Energy from wind and water Energy and the environment Energy issues	Use GCSE Pod to answer questions on the topic of Energy stores. https://www.bbc.co.uk/bitesize/quHides/zskp7p3/revision/1 https://www.bbc.co.uk/bitesize/ran/topics/z89ddxs Revision guide: F: 167-172 H:167 – 179	<u>Forces</u> Contact & non-contact Weight, mass, gravity Resultant forces & work done Calculating forces Forces and elasticity Investigating springs (include required practical) Distance, speed, velocity, displacement Acceleration Distance-time graphs Velocity-time graphs Terminal velocity Newton's first and second laws Inertia Newton's third law Investigating motion (include required practical) Stopping distances Reaction times Momentum	Use GCSE Pod to answer questions on the topic of forces https://www.bbc.co.uk/bitesize/guides/zcxcfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/z232k2p/revision/1 Revision guide: H:201 – 216
2	<u>Electricity</u> Current and charge Potential difference and resistance (include required practical) Series and parallel circuits Component characteristics (include required practical) Static electricity	Use GCSE Pod to answer questions on the topic of Energy resources. https://www.bbc.co.uk/bitesize/topics/zca44qt Revision Guide: F:180-187 H 179-185	<u>Waves and properties</u> Transverse & longitudinal waves Wave experiments: Oscilloscope, ripple tank (include required practical), waves on string Wave behaviour Refraction Reflection	Use GCSE Pod to answer questions on the topic of forces and motion https://www.bbc.co.uk/bitesize/guides/z3ya4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/zwkn2nb/revision/1 Revision guide: F:219-222 H:18 – 221
3	<u>Electricity in the home</u> Alternating current Cables and plugs Electrical power and potential difference Electrical currents and energy transfer Appliances and efficiency National Grid	Use GCSE Pod to answer questions on the topic of Electricity. https://www.bbc.co.uk/bitesize/topics/zca44qt Revision guide: F:188-191 H:186-189	<u>Types of waves</u> Radio waves EM waves and their uses Investigating infrared radiation (include required practical) Dangers of EM waves Seismic waves Lenses, Images & colour	Use GCSE Pod to answer questions on the topic of forces and Newton's law https://www.bbc.co.uk/bitesize/guides/ztpm7p3/revision/1 Revision guide: F:223-228 H 222 – 226 s
4	<u>Particle model of matter</u> Density (include required practical) States of matter and changes of state Internal energy Specific latent heat Gas pressure and temperature Boyle's Law	Use GCSE Pod to answer questions on the topic of Electricity in the home. https://www.bbc.co.uk/bitesize/topics/zshsrd Revision guide: F:193-196 H:191-194	<u>Magnetism and electromagnetism</u> Permanent and induced magnets Electromagnetism The motor effect Electric motors Generators Transformers	Use GCSE Pod to answer questions on the topic of waves and properties. https://www.bbc.co.uk/bitesize/guides/zpt9v9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zg43y4j/revision/1 Revision guide: F:229-230 H:227-230
5	<u>Atomic structure (Radioactivity)</u> Atoms and radiation The nucleus Types of radiation Half life Calculating decline in radioactivity Nuclear fission Nuclear fusion	Use GCSE Pod to answer questions on the topic of Particle model of matter. https://www.bbc.co.uk/bitesize/guides/zpkbv9q/revision/1 Revision Guide: F: 197- 201 H:195-199	<u>Space</u> Solar system Stars Satellites Big Bang	Use GCSE Pod to answer questions on the topic of types of waves https://www.bbc.co.uk/bitesize/topics/zsbyh39 Revision guide: F:229-230 H:227-230