

Summer Term – Remotely Learning Plan

Year 9 – Physics (Combined Science)

Week:	Instructions to Parents/Students
28B – 20 th April	Particle Theory – Go to BBC bitesize https://www.bbc.co.uk/bitesize/guides/zgr2pv4/revision/1 Describe particle arrangement and movement in solid, liquid and gas. Include diagrams. Then describe and explain 2 properties of solids, liquids and gases. Attempt the quiz.
29A – 27 th May	Thermal Conductivity – Go to BBC Bitesize https://www.bbc.co.uk/bitesize/guides/zy8g3k7/revision/2 Define thermal conductivity and describe an experiment, with a diagram, showing how you can compare the thermal conductivity of different metal rods. Attempt the quiz.
30B – 4 th May	Density – https://www.bbc.co.uk/bitesize/guides/zqjy6yc/revision/1 and get a definition for density. Learn the density equation and explain the difference in density between solid, liquid and gas. Attempt the density calculation and try the quiz.
31A – 11 th May	Required Practical – Calculating Density. Watch https://www.youtube.com/watch?v=ScXOp8Zph28&list=PL9louNCPbCxWdHszkb6n6503ommOpg_t7&index=2 and write a comprehensive method on how you would calculate the density of a regular and irregular shaped object.
32B – 18 th May	Insulating our homes – watch https://www.youtube.com/watch?v=GTdgl-OKckA Define thermal conductivity and explain how heat is transferred from our homes and ways in which this can be prevented (home insulation). This can be done in the form of a poster.
33A – 1 st June	Energy stores – Go to BBC Bitesize https://www.bbc.co.uk/bitesize/guides/z8n47p3/revision/1 and watch the video. List the 8 energy stores with a description and example for each. Then go to page 2 and explain how energy transfers occur, with the examples of the swinging ship, speedboat and boiling kettle.
34B – 8 th June	Specific Heat Capacity – Watch https://www.youtube.com/watch?v=Hs5x0-IU2F4 Define specific heat capacity, learn the equation and practice some questions using https://www.bbc.co.uk/bitesize/guides/z2gjt4/revision/1 Attempt the test.
35A – 15 th June	Required Practical: Specific Heat Capacity – Watch https://www.youtube.com/watch?v=HAPmwu7byGM and write a comprehensive method on how you can find the specific heat capacity of different metals.
36B – 22 nd June	Efficiency – define efficiency, learn the equation and research ways of increasing efficiency. Watch https://www.youtube.com/watch?v=NI5jaeBrigQ to help. Use BBC bitesize for practice questions.
37A – 29 th June	Power – define power, learn the equations for power and the units of power. Watch https://www.youtube.com/watch?v=EDTODPhaaMY to help. Look at https://exampapersplus.co.uk/gcse-physics-energy-questions-and-answers/ for example questions.
38B – 6 th July	Energy resources – 2 weeks of work. Use http://www.darvill.clara.net/altenerg/index.htm and research renewable and non-renewable energy resources. Watch https://www.youtube.com/watch?v=pqzvUur7QRw and https://www.youtube.com/watch?v=1dJKvxhGEgA to help. Define renewable and non-renewable. (continued below)
39A – 13 th July	List all renewable and non-renewable energy resources (solar, wind, geothermal, coal, etc) – explain BASICALLY how they work, giving advantages and disadvantages of each.

Useful resources:

exampapersplus.co.uk

BBC Bitesize

Physicsandmathstutor.com

Darvillclara.net

AQA GCSE Physics (for past papers and markschemes)