



Physics – Year 9 Useful Links



1. Energy

Stores of energy	GCSE Physics Topic 1 Video Playlist Changes in Energy Stores Work, Power and Efficiency Energy and Heating
Energy resources	Energy Demands Fossil Fuels Nuclear Power UK Energy Mix Renewable Energy
Sample Exam Questions – Energy	https://www.bbc.co.uk/bitesize/guides/z3nktv4/revision/1 https://www.physicsandmathstutor.com/physics-revision/gcse-aqa/energy/
Useful all in one website	https://www.revisely.com/gcse/physics/aqa/notes

2. Electricity

Electricity Video Playlist	https://www.youtube.com/watch?v=rFd-vzU4_pg&list=PLiAaRaWwSP5TvBs5x7n5DyMwI_8kAUvcU
Series and Parallel Circuits	Circuit Symbols V=IR Q=It Series and Parallel Circuits
Resistance of a Wire Practical	Resistance of a wire practical
Sensing Circuits	Thermistors LDRs
IV characteristics	IV Characteristics Practical
Domestic Electricity	Electricity in the home Transmitting Electricity
Power	Power and energy transfers Calculating power
Sample Exam Questions	https://www.physicsandmathstutor.com/physics-revision/gcse-aqa/electricity/
BBC Bitesize	https://www.bbc.co.uk/bitesize/guides/zx7vw6f/revision/1

3. Particle Model of Matter

Density	https://www.youtube.com/watch?v=-EZmXVOSa20
Required practical: Densities of solids	https://www.youtube.com/watch?v=ScXOp8Zph28
Heating And cooling graphs	GCSE Physics Revision "Heating and Cooling Graphs"
Changes of state	https://www.youtube.com/watch?v=Ku0oTu8ZWqk
Internal energy	https://www.youtube.com/watch?v=5WVT5NR0iLA
Specific heat capacity	https://www.youtube.com/watch?v=Hs5x0-IU2F4
Latent heat	https://www.youtube.com/watch?v=x7GZ2DXef84

Particle motion in gases	https://www.youtube.com/watch?v=hKO3DpgilSk
Increasing the pressure	https://www.youtube.com/watch?v=RuoZqmNiMEo

Bitesize Quizzes (select relevant topic e.g. Communicable diseases activity 1")	https://www.bbc.co.uk/bitesize/guides/z33qfcw/revision/
Past exam paper questions	https://www.physicsandmathstutor.com/physics-revision/gcse-aqa/particle-model-of-matter/

Year 9 Physics Spelling List

Key Word	Definition
Alternating	Constantly reversing
Ammeter	The device that measures current
Battery	Multiple cells. A power source for an electrical circuit
Conservation of Energy	The law stating that energy cannot be created or destroyed, but transferred from one store to another
Coulomb	The unit of charge
Efficiency	A measure of what percentage of energy is used usefully
Electrostatic	The store of energy found in charged objects
Geothermal	An energy resource that harnesses heat energy from the centre of the earth
Hydroelectric	An energy resource that harnesses energy from falling water
Joules	Unit of energy
Kinetic	The store of energy something has if it's moving
Latent Heat Capacity	The amount of energy needed to melt 1 kilogram of a substance
National Grid	A network of cables and transformers used to transfer electricity across the country
Ohm	The unit of resistance
Parallel Circuit	A circuit with more than one loop
Resistor	A device that lowers the current
Solar	An energy resource that harnesses energy from the Sun
Systematic error	When the read value is out by the same amount each time
Uncertainty	The interval within which the true value can be expected to lie, with a given level of confidence
Watt	The unit of power