**Autumn term: 2023**

 *AQA GCSE Physics Year 10*

1. **Energy**

• Introduction to GCSE Physics

• 1.1 Changes in energy store

• 1.2 Conservation of energy

• 1.3 Energy and work

• 1.4 Gravitational potential energy stores

• 1.5 Kinetic energy and elastic stores

• 1.6 Energy dissipation

• 1.7 Energy and efficiency

• 1.8 Electrical appliances

• 1.9 Energy and power

• Summary and review

• Test

• 2.1 Energy transfer by conduction

• 2.2 Infrared radiation

• 2.3 More IR

• 2.4 Specific heat capacity

• 2.5 Measurement of specific heat capacity

• 2.6 Heating and insulating buildings

* RP1: Determining the specific heat capacity

• Summary and review

• 3.1 Energy demands

• 3.2 Energy from wind and water

• 3.3 Power from sun and earth

• 3.4 Energy and the environment

• Test

**Winter term: 2024**

 *Christmas break*

**2. Electricity**

• 4.1 Electrical charges and fields

• 4.2 Current and charge

• 4.3 Potential difference and resistance

• 4.4 Component characteristics

• 4.5 Series Circuits

• 4.6 Parallel Circuits

• Summary and review

• 5.1 Alternating current

• 5.2 Cables and plugs

• 5.3 Electrical power and potential difference

• 5.4 Electrical currents and energy transfer

• 5.5 Appliances and efficiency

• Summary and review

• Test

 *Easter break*

**Spring term: 2024**

1. **Particle model of matter & 4. Atomic structure**

• 6.1 Density

• 6.2/3 States of matter and changes of states

• 6.4/5 Internal energy and specific latent heat

• 6.6/7 Gas Pressure, temperature and volume

• RP5: Calculating densities

• Summary and review

• Test

• 7.1 Atoms and radiation

• 7.2 Discovery of the nucleus

• 7.3 Changes in the nucleus I

• 7.4 Changes in the nucleus II

• 7.5 Activity and half-life

• 7.6 Nuclear radiation in medicine

• 7.7 Nuclear fusion

• 7.8 Nuclear fusion

• Summary and review

* Test

**End of the Year Exams in June 2024**

 *Summer break*