**Winter term: 2023**

 *AQA GCSE Physics Year 11*

1.  **Forces**

• 8.1 Vectors and scalars/8.2 Forces between objects

• 8.3 Resultant forces

• 8.4 Moments at work

• 8.6 Centre of mass

• 8.7 Moments and equilibrium

• 8.8 Parallelogram of forces

• 8.9 Resolution of forces

• Summary and review

• 9.1 Speed and distance-time graph

• 9.2 Velocity and acceleration

• 9.3 Velocity and acceleration II

• 9.4 Analysing motion graphs

• EOU Test

• 10.1 Forces and acceleration

• 10.2 Weight and terminal velocity

• 10.3 Forces and breaking

• 10.4 Momentum/10.5 Using conservation of momentum

• 10.6 Impact forces/10.7 Safety first

• 10.8 Forces and elasticity

• 11.1 Pressure and surfaces/ 11.2 Pressure in liquid

• 11.3 Atmospheric Pressure/ 11.4 Up thrust and flotation

• Summary and review

• Test

**Spring term: 2024**

 *Christmas break*

**2. Waves**

• 12.1 The nature of waves/12.2 The properties of waves

• 11.3 Reflection and refraction

• 12.4 Sound waves

• 12.5 The use of ultrasound/ 12.6 Seismic waves

• Summary and review

• 12.1 The electromagnetic spectrum

• 12.2 Light, IR, MW and RW

• 12.3 Communications

• 12.4 UV, X-rays and gamma rays

• RP8 Investigating plane wave in a ripple tank

• 12.5 X-rays in medicine

• Summary and review

**7. Magnetism and electromagnetism**

• 13.1 Magnetic fields /13.2 Magnetic fields and electric currents

• 13.3 Electromagnets in devices

• 13.4 The motor effect

• 15.5 the generator effect

• RP 10 investigating IR

• 15.6 The alternating-current generator

• 15.7 Transformers and uses of transformer

• 14.1 Reflection and refraction of light *(part of waves)*

• 14.2 Light and colour

• 14.3 lens/ 14.4 uses of lens

* Test

*Easter break:*

*Space physics and revision via exam papers*

**Summer term: 2024**

**Revision and exam preparation**

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

 *Summer break*