

## **A-level Physics Advance information:**

### **Key points:**

- Students will still need to have covered all parts of the specification, as anything could be assessed in multiple-choice, low-tariff and linking questions.
- The 'topics to focus on' for each exam are listed in order of importance – the ones at the top will carry the highest number of marks.
- A list of 'required practicals' which will be assessed is included to give a general idea of the context in which practical work is being assessed. It does not mean the exact method from the practical handbook will be followed.

### **Paper 1 7408/1**

- 3.2.1 Particles
- 3.4.1 Force, energy and momentum
- 3.5.1 Current electricity
- 3.6.1 Periodic motion
- 3.2.2 Electromagnetic radiation and quantum phenomena

### **Paper 2 7408/2**

- 3.6.2 Thermal physics
- 3.8.1 Radioactivity
- 3.7.5 Magnetic fields
- 3.7.2 Gravitational fields

### **Paper 3 7408/3A + 7408/3BA (Astrophysics route)**

- 3.6.2 Thermal physics (including Required Practical 8)
- 3.5.1 Current electricity (including Required Practical 5)
- 3.4.2 Materials (including Required Practical 4)
- 3.9.3.1 Doppler effect
- 3.9.3.2 Hubble's law
- 3.9.1.1 Astronomical telescope consisting of two converging lenses
- 3.9.2.2 Absolute magnitude,  $M$