

## Separate Science AQA GCSE Physics 8463 Additional Information Foundation Tier

### Paper 1F 8463/1F

For this paper, the following list shows the major focus of the content of the exam:

- 4.1.1 Energy changes in a system, and the ways energy is stored before and after such changes
- 4.1.2 Conservation and dissipation of energy
- 4.2.1 Current, potential difference and resistance
- 4.2.5 Static electricity
- 4.3.1 Changes of state and the particle model
- 4.3.2 Internal energy and energy transfers
- 4.4.2 Atoms and nuclear radiation

Required practical activities that will be assessed:

- Required practical activity 2: investigate the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material.
- Required practical activity 5: use appropriate apparatus to make and record the measurements needed to determine the densities of regular and irregular solid objects and liquids. Volume should be determined from the dimensions of regularly shaped objects, and by a displacement technique for irregularly shaped objects. Dimensions to be measured using appropriate apparatus such as a ruler, micrometer or Vernier callipers.

Topics not assessed in this paper:

- 4.2.3 Domestic uses and safety
- 4.3.3 Particle model and pressure
- 4.4.1 Atoms and isotopes
- 4.4.4 Nuclear fission and fusion

### Paper 2F 8463/2F

For this paper, the following list shows the major focus of the content of the exam:

- 4.5.1 Forces and their interactions
- 4.5.2 Work done and energy transfer
- 4.5.6.1 Describing motion along a line
- 4.6.1 Waves in air, fluids and solids
- 4.6.2 Electromagnetic waves
- 4.8.1 Solar system; stability of orbital motions; satellites

Required practical activity that will be assessed:

- Required practical activity 9: investigate the reflection of light by different types of surface and the refraction of light by different substances.

Topics not assessed in this paper:

- 4.5.4 Moments, levers and gears
- 4.5.6.2 Forces, accelerations and Newton's Laws of motion
- 4.5.6.3 Forces and braking
- 4.6.3 Black body radiation
- 4.8.2 Red-shift