

## Qualification: Combined Science (Physics) Foundation

What will be assessed in 2022?

### **Combined Science Foundation Paper 1 (Physics) 8464/P/1F**

These areas are the main focus of the questions on the paper.

- 6.1.1 Energy changes in a system, and the ways energy is stored before and after such changes
- 6.1.3 National and global energy resources
- 6.2.1 Current, potential difference and resistance
- 6.3.1 Changes of state and the particle model
- 6.4.2 Atoms and nuclear radiation

Required practical activities that will be assessed:

- Required practical activity 14: an investigation to determine the specific heat capacity of one or more materials. The investigation will involve linking the decrease of one energy store (or work done) to the increase in temperature and subsequent increase in thermal energy stored.
- Required practical activity 16: use circuit diagrams to construct appropriate circuits to investigate the I–V characteristics of a variety of circuit elements, including a filament lamp, a diode and a resistor at constant temperature

What won't be assessed in 2022?

- 6.2.3 Domestic uses and safety
- 6.3.3 Particle model and pressure
- 6.4.1 Atoms and isotopes

Further information:

Topics not covered on either list can be tested as part of other questions and as smaller mark questions.

Additional support provided by the exam board for the 2022 year only? Revised equation sheet

## Qualification:

What will be assessed in 2022?

### **Combined Science Foundation Paper 2 (Physics) 8464/P/2F**

These topics are the major focus of the content of the exam:

- 6.5.1 Forces and their interactions
- 6.5.4.1 Describing motion along a line
- 6.5.4.2 Forces, accelerations and Newton's Laws of motion
- 6.5.4.3 Forces and braking
- 6.6.2 Electromagnetic waves
- 6.7.1 Permanent and induced magnetism, magnetic forces and fields
- 6.7.2 The motor effect

Required practical activity that will be assessed:

- Required practical activity 21: investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.

What won't be assessed in 2022?

- 6.5.3 Forces and elasticity

Further information:

Topics not covered on either list can be tested as part of other questions and as smaller mark questions.

Additional support provided by the exam board for the 2022 year only? Revised equation sheet