

FINAL REVISION LIST PHYSICS SEPARATES.

The following topics should be revised for the upcoming assessments:

Unit 1: Energy

Unit 2: Electricity

Unit 3: Particle Model of Matter

Unit 4: Atomic Structure

Unit 5: Forces

Unit 6: Waves

Particular specification focus is detailed below.

NEW CONTENT:

Unit 1: Energy (spec ref 4.1) {Revision guide pages 11-22}

- **Energy changes in a system, and the ways energy is stored before and after such changes. (4.1.1)**
 - Sections 4.1.1.1, 4.1.1.2 and 4.1.1.4
- **Conservation and dissipation of energy. (4.1.2)**
 - Efficiency (4.1.2.2)
- **National and global energy resources. (4.1.3)**

Unit 2: Electricity (spec ref 4.2) {Revision guide pages 24,25,28 - 35}

- **Current, potential difference and resistance. (4.2.1)**
 - Sections 4.2.1.1, 4.2.1.2 and 4.2.1.
- **Series and parallel circuits. (4.2.2)**
- **Domestic uses and safety. (4.2.3)**
 - Section 4.2.3.1
- **Energy transfers (4.2.4)**
 - Section 4.2.4.2
- **Static electricity. (4.2.5)**
 - Section 4.2.5.1

Unit 3: Particle model of matter (spec ref 4.3) {Revision guide page 41}

- **Particle model and pressure. (4.3.3)**
 - Section 4.3.3.2

Unit 4: Atomic structure (spec ref 4.4) {Revision guide pages 43,44,47,48,49}

- **Atoms and isotopes. (4.4.1)**
 - Sections 4.4.1.1 and 4.4.1.2
- **Hazards and uses of radioactive emissions and of background radiation. (4.4.3)**
 - Section 4.4.3.3
- **Nuclear fission and fusion (4.4.4)**
 - Sections 4.4.4.1 and 4.4.4.2

ORIGINAL CONTENT:

Unit 5: Forces (spec ref 4.5) {Revision guide pages 51 – 71}

- **Forces and their interactions (4.5.1)**
 - Sections 4.5.1.1, 4.5.1.2, 4.5.1.3 and 4.5.1.4
- **Work done and energy transfer (4.5.2)**
- **Forces and Elasticity (4.5.3)**
- **Moments, levers and gears (4.5.4)**
- **Pressure and pressure differences in fluids (4.5.5)**
 - Sections 4.5.5.1 and 4.5.5.2
- **Forces and motion (4.5.6)**
 - Sections 4.5.6.1, 4.5.6.2 and 4.5.6.3
- **Momentum (4.5.7)**
 - Sections 4.5.7.1, 4.5.7.2 and 4.5.7.3

Unit 6: Waves (spec ref 4.6) {Revision guide pages 73 – 90}

- **Waves in air, fluids and solids (4.6.1)**
 - Sections 4.6.1.1, 4.6.1.2, 4.6.1.3, 4.6.1.4 and 4.6.1.5
- **Electromagnetic waves (4.6.2)**
 - Sections 4.6.2.1, 4.6.2.2, 4.6.2.3, 4.6.2.4, 4.6.2.5 and 4.6.2.
- **Black body radiation (4.6.3)**
 - Sections 4.6.3.1 and 4.6.3.2