

## Physics Portions for First Term Examination – Jan, 2021

### Year 9 – 11 (GCSE) & Year 12 - 13

#### Year 9

SP3 Conservation of energy (3a, 3b, 3c, 3d, 3e, 3f)

SP4 Waves (4a, 4b, 4c)

SP 5 Light and the Electromagnetic Spectrum (5a only)

#### Year 10

SP3 Conservation of energy (3a, 3b, 3c, 3d, 3e, 3f)

SP4 Waves (4a, 4b, 4c, 4d, 4e, 4f, 4g)

SP 5 Light and the Electromagnetic Spectrum (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i)

SP 6 Radioactivity (6a, 6b, 6c, 6d, 6e, 6f, 6g, 6h, 6i, 6j, 6k, 6l, 6m)

#### Year 11 -GCSE

##### Paper 1

SP1 Motion (1a, 1b, 1c, 1d)

SP2 Motion and Forces (2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i)

SP3 Conservation of energy (3a, 3b, 3c, 3d, 3e, 3f)

SP4 Waves (4a, 4b, 4c, 4d, 4e, 4f, 4g)

SP 5 Light and the Electromagnetic Spectrum (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i)

SP 6 Radioactivity (6a, 6b, 6c, 6d, 6e, 6f, 6g, 6h, 6i, 6j, 6k, 6l, 6m)

SP 7 Astronomy (7a, 7b, 7c, 7d, 7e)

##### Paper 2

SP 8 Energy-forces doing work (8a)

SP9 Forces and their effects (9a, 9b, 9c)

SP10 Electricity and circuits (10a,10b,10c, 10d, 10 e, 10 f, 10g, 10h, 10 i)

SP11 Static Electricity (**11a, 11b, 11c**)

SP12 Magnetism and motor effect (**12a, 12b, 12c**)

SP13 Electromagnetic induction (**13a, 13b, 13c**)

SP14 Particle model (**14a, 14b, 14c, 14d, 14e**)

## **Year 12**

### **Topic 1- Working as a Physicist**

- 1- Units
2. Estimation

### **Topic 2- Mechanics**

- 2.1 Motion (chap 4 –Moments excluded)
- 2.2 Energy

### **Topic 3 - Electric circuits**

- 3.1 Electrical quantities
- 3.2 Complete Electrical circuits (chap 1, 3 &5 only)

### **Topic 4- Materials**

- 4.1 Fluids
- 4.2 Solid material properties

## **Year 13**

### **Paper 1**

**Topic 1 - Working as a Physicist**

**Topic 2 - Mechanics**

**Topic 3 - Electric circuits**

**Topic 4 - Materials**

**Topic 5 - Waves and particle nature of light**

*And concepts from relevant practicals will be included.*

## **Paper 2**

**Topic 1- Working as a Physicist**

**Topic 6 Further Mechanics**

**Topic 7 Electric and Magnetic fields**

**Topic 9 – Thermodynamics**

**Topic 10 – Nuclear Radiation (chap 1 &2 only)**

*And concepts from relevant practicals will be included.*