

## **PORTION FOR FINAL ASSESSMENT - MAY 2021**

### **YEAR 9 – PHYSICS**

#### **Physics Portion for Final Assessment**

- SP3 Conservation of Energy (3a, 3b, 3c, 3d, 3e, 3f)
- SP4 Waves (4a, 4b, 4c, 4d, 4e, 4f, 4g)
- SP5 Light and the Electromagnetic Spectrum (5a, 5b, 5d, 5e, 5f, 5g, 5h, 5i)

#### **Extra KS3 Topics for GL Examinations**

To be revised from Year 7 and Year 8 (KS 3)

- Motion and Forces
- Work done and Power
- Earth and Space
- Fluids
- Static Electricity
- Electricity
- Electromagnetism
  
- Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety
- Pay attention to objectivity and concern for accuracy, precision, repeatability and reproducibility
- Interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions
- Select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate

***Materials/power points/Worksheets based on the topics from KS3 will be given in the class***

# YEAR 10 – PHYSICS

## Physics Portion for Final Assessment

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)

SP5 Light and the Electromagnetic Spectrum (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i)

SP 8a Work and power

## Extra KS3 Topics for GL Examinations

To be revised from Year - 7 and Year – 8 (KS 3)

- Earth and space
- Fluids
- Static electricity
- Electricity
- Electromagnetism
  
- Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety
- Pay attention to objectivity and concern for accuracy, precision, repeatability and reproducibility
- Interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions
- Select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate
- The number of observations or measurements that need to be made and their range and values to ensure reliability of evidence
- Work quantitatively, using appropriate mathematical conventions and using S.I. units appropriate to their work, e.g. Kg, s, n, m, j, w
- When carrying out a fair test, control variables appropriately and identify any variables that cannot be readily controlled

***Materials/power points/Worksheets based on the topics from KS3 will be given in the class***

# YEAR 12 – PHYSICS

## **Topic 1 - Working as a Physicist (1-2)**

## **Topic 2 - Mechanics**

2.1 Motion

2.2 Energy

2.3 Momentum

## **Topic 3 - Electric circuits**

3.1 Electrical quantities

3.2 Complete Electrical circuits

## **Topic 4 - Materials**

4.1 Fluids

4.2 Solid Material properties

## **Topic 5- Waves and Particle nature of light**

5.1 Basic waves

5.2 The behaviour of waves (1,2,4)

5.3 Optics (1- 4)

**and questions based on Practical skills from all topics.**