

Science (Physics) – Your Learning Journey

Year 8

- Your journey will begin with an introducing science unit which will teach you to work scientifically.
- You will study Physics by looking at 4 **Big Ideas**: **FORCES**, **ELECTROMAGNETS**, **ENERGY** and **WAVES**.
- If you follow the **colours** you can see how these build up as you move through Years 7 to 11.
- The Physics units that we study in Year 7 are:

Speed

Gravity

Energy Costs

Energy Transfer

Sound

Light

- By the end of Year 7 you will be working scientifically and have a strong foundation for Year 8.

Year 7

- After a reminder on how we work safely in the science rooms we continue to look at building up your Physics knowledge and skills.
- As you move through each topic you will gain a greater understanding of each **Big Idea**.
- The Physics units that we study in Year 8 are:

Contact Forces

Potential Difference and Resistance

Current

Work

Heating and Cooling

- By the end of Year 8 your knowledge, skills and confidence should be growing and you are ready to tackle the more challenging work of Year 9.

Year 9

- In Year 9 you continue to build up your understanding of each **Big Idea**.
- The Physics units that we study in Year 9 are:

Pressure

Magnetism

Electromagnets

Wave Effects

Wave Properties

- By the end of Year 9 your knowledge, skills and confidence should be growing and you are ready to tackle the more challenging work of Year 10 GCSE.
- Next year GCSE just continues to build on the **Big Ideas** that you have studied in Years 7, 8 and 9

Year 10

- GCSE just continues to build on the **Big Ideas** that you have studied in Years 7, 8 and 9
- The Physics Units that we study in Year 10 are:

Forces in Balance

Electric Circuits

Electricity in the Home

Energy Resources

Radioactivity

- All the Units that you have studied so far make up Paper 1 of your GCSE

- In Year 11 you continue to build on each **Big Idea**.
- Your Year 11 work prepares you for Paper 2 of your Physics.
- The Physics Units that we study in Year 11 are:

Motion

Force and Motion

Electromagnetism

Wave Properties

Electromagnetic Waves

- At the end of Year 11 you will sit the AQA Combined Science (Trilogy) exams.

Year 11