



## Curriculum Overview: Triple Physics Year group 11

### What your child will learn each half term

This overview shows the key topics, skills, and knowledge your child will be learning in **Triple Physics** in **Y11**. It helps families understand what's being taught, how it builds on previous learning, and how you can support your child at home.

- **How science works skills**

- Use and rearrange equations confidently.
- Link graphs and data to scientific models, drawing conclusions from evidence.
- Develop skills in planning, carrying out, and analysing required practicals.
- Apply practical skills: selecting equipment, measuring accurately, and identifying variables to control in an investigation.
- Communicate scientific ideas clearly in extended written answers, using correct terminology.

- **What we are learning:** The topic or focus for the half term.
- **Key knowledge & skills:** What students should understand and be able to do.
- **How we assess learning:** knowledge checks, practical tasks, written responses and formal assessments.
- **Key words to know:** Vocabulary students will learn and use.

| Half term  | What we are learning                                                                           | Key knowledge and skills                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | How we will assess learning in this unit                                                                                                                                  | Homework                                                                                                                                                              | Key vocabulary for this unit                                                                                                                                                                                                                                                                                           |
|------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HT 1 and 2 | P5c Force and motion<br><br>P5d Pressure<br><br>P6a Wave properties<br><br>P6b The EM Spectrum | <ul style="list-style-type: none"><li>• Force &amp; motion (P5c): Newton's laws, motion graphs, acceleration, stopping distances.</li><li>• Pressure (P5d): pressure in solids, liquids, gases, pressure-depth relationship, upthrust and floating.</li><li>• Wave properties (P6a): transverse and longitudinal waves, wave equation, reflection, refraction.</li><li>• Electromagnetic spectrum (P6b): order of EM spectrum, uses and risks of different waves, ionising radiation.</li></ul> | <p>Continuous formative assessment in lessons.</p> <p>End of topic tests.</p> <p>Question level analysis and feedback.</p> <p>Required practical assessment booklets.</p> | Homework is set on a Monday and is due the following Monday. Homework will be set online using a website 'Educake' which pupils will receive their login details for. | Force, mass, acceleration, velocity, stopping distance, momentum, pressure, density, upthrust, transverse, longitudinal, amplitude, frequency, wavelength, wave speed, reflection, refraction, electromagnetic spectrum, radio, microwave, infrared, visible light, ultraviolet, X-ray, gamma ray, ionising radiation. |