

# Curriculum Overview – PHYSICS

## Key Stage 3

Year 7	Year 8	Year 9
Students study the following Biology topics in a carousel with Chemistry and Biology: Forces – 1 Electromagnets – 1 Energy – 1 Waves – 1	Forces – 2 Electromagnets – 2 Energy – 2 Waves – 2	<ul style="list-style-type: none"> <li>• Conservation and dissipation of energy</li> <li>• Energy transfer by heating</li> <li>• Energy resources</li> <li>• Electric circuits</li> </ul>

### Textbooks used:

Year 7: AQA KS3 Activate 1, ISBN: 978-0-19-840824-6

Year 8: AQA KS3 Activate 2, ISBN: 978-0-19-840825-3

Year 9: AQA GCSE Physics Student Book, ISBN: 978-0-19-835939-5

## Key Stage 4 – GCSE Exam Board: AQA

Year 10	Year 11
Electricity in the home	Wave properties
Molecules and matter	Electromagnetic waves
Radioactivity	Light
Forces in balance	Electromagnetism
Motion	Space
Force and motion	
Force and pressure	

Valid for 2021 – 2022 academic year only:

Year 10	Year 11
Energy transfer by heating	Motion
Molecules and matter	Force and motion
Radioactivity	Force and pressure
Forces in balance	Electromagnetism
Motion	Space
Force and motion	
Force and pressure	

**Textbook Used: AQA GCSE Physics Student Book, ISBN: 978-0-19-835939-5**



## Key Stage 5 – A Level Exam Board: OCR

Year 12	Year 13
Foundations of physics	Newtonian world and astrophysics
Forces and motion	Particles and medical physics
Electrons, waves, and photons	

“Development of practical skills in physics” is embedded into our practical work of the two-year study period. Our students reach the mastery level before the end of their first year in sixth form. They increase the depth of their skills during their studies in the second year.

**Textbooks used: A Level Physics for OCR A Student Book, ISBN: 978-0-19-835218-1**