

...Inspiring Learners For Their Future

'Our shared vision is that our students, colleagues and families will be part of a **FAIR** community.

We will support our school **Family** to **Achieve** their potential, and **Inspire** students to **Reach** the very best destinations.'



# Physics Curriculum Overview

### **Year 7 Science Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	<ul><li>Biology- Living things 1</li><li>Chemistry- Particles 1</li></ul>	<ul><li>Biology-Living things 1</li><li>Chemistry- Particles 1</li></ul>	Chemistry- Properties and reactions 1	• Chemistry- Properties and reactions 1	Biology-Our     Environment 1	• Biology-Our Environment 1
Year 7	• Chemistry-Tarticles 1	chemistry randocs 1	Physics-Energy and Waves 1	Physics- Energy and Waves 1	Physics-Forces and Electricity 1	Physics-Forces and Electricity 1

## **Year 8 Science Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 8	<ul> <li>Biology- Living things 2</li> <li>Chemistry- Particles 2</li> </ul>	<ul> <li>Biology-Living things</li> <li>2</li> <li>Chemistry- Particles 2</li> </ul>	<ul> <li>Biology- Our Environment 2</li> <li>Physics-Energy and Waves 2</li> </ul>	<ul> <li>Biology- Our Environment 2</li> <li>Physics-Energy and Waves 2</li> </ul>	<ul> <li>Chemistry- Properties and reactions 2</li> <li>Physics-Forces and Electricity 2</li> </ul>	<ul><li>Chemistry-2</li><li>Physics-Forces and Electricity 2</li></ul>

### **Year 9 Science Curriculum Overview-**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	<ul><li>Biology- Living things 3</li><li>Chemistry- 3</li></ul>	<ul> <li>Biology- Living things</li> <li>3</li> <li>Chemistry- 3</li> </ul>	<ul> <li>Biology- Our Environment 3</li> <li>Physics-Energy and Waves 3</li> </ul>	<ul> <li>Biology- Our Environment 3</li> <li>Physics-Energy and Waves 3</li> </ul>	<ul> <li>Chemistry-3</li> <li>Physics-Forces and Electricity 3</li> </ul>	<ul> <li>Chemistry-2</li> <li>Physics-Forces and Electricity 3</li> </ul>

# **Year 10 Physics Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Review from year 9:	P2 Energy transfer by heating	P4 Electric Circuits	P5 Electric circuits in the home	P7 Radioactivity	P8 Forces
	P3 Energy resources					
Year 10	+ DC Malagulas and					
	P6 Molecules and matter from year 9					
	P1 Conservation and dissipation of energy					

## **Year 11 Physics Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Triple	Triple	Triple	Triple	Triple	Triple
Year 1	P8 Forces	P9 Motion P10 Force and motion P11 Force and pressure	P12 Wave properties P13 Electromagnetic waves P14 Light	P14 light P15 electromagnetism P16 Space		
	Combined	Combined	Combined	Combined	Combined	Combined
	P8 Forces	P9 Motion P10 Force and motion	P12 Wave properties P13 Electromagnetic waves	P13 Electromagnetic waves P15 electromagnetism		

## **Sixth Form Curriculum Overview**

## **Physics**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	1.1 Practical skills 2.1 + 2.2 Quantities	3.3 Work, energy and power	3.4 Materials	3.5 Newtons Laws	Consolidation of Practical activity endorsement	5.5 Astrophysics
Year 12		4.5 Quantum	4.2 EMF	4.3 Electrical Circuits	Revision for EoY exams	6.5 Medical imaging
	3.2 Forces 4.4 Waves	Unit 4.1 Charge and current				
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	5.1 Thermal Physics	5.2 Circular motion	5.3 oscillations	5.4 Gravitational fields	REVISION & Exam preparent	aration
Year :	6.1 Capacitors	6.2 Electric fields	6.3 Electromagnetism	6.4 Nuclear and particle physics		

# **Applied Science Curriculum Overview**

## **Extended Certificate**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Unit 1: Principles and Applications of Science I	Unit 1: Principles and Applications of Science I  Biology Chemistry Physics	Unit 2: Practical Scientific Procedures and Techniques  Chromatography Titrations	Unit 2: Practical Scientific Procedures and Techniques  Chromatography Titrations	Unit 2: Practical Scientific Procedures and Techniques • Calorimetry • Personal review	Unit 3: Science Investigative Skills  • Plants  • Electricity
			Unit 1 exams to take place in January			
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 13	Unit 3: Science Investigative Skills  • Fuels • Diffusion	Unit 3: Science Investigative Skills  Enzymes  Electricity	Unit 9: Human Regulation and reproduction  Unit 3 exam takes place in January	Unit 9: Human Regulation and reproduction	Unit 9: Human Regulation and reproduction	Unit 9: Human Regulation and reproduction

# **National Diploma**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Unit 8: Physiology of Human Body Systems	Unit 8: Physiology of Human Body Systems	Unit 5: Principles and Applications of Science II	Unit 5: Principles and Applications of Science II	Unit 5: Principles and Applications of Science II  Unit 5 exams to take place in May	Unit 4: Laboratory Techniques and their Application
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 13	Unit 4: Laboratory Techniques and their Application	Unit 4: Laboratory Techniques and their Application	Unit 6: Investigative Project	Unit 6: Investigative Project	Unit 6: Investigative Project	Unit 6: Investigative Project