

...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.'



# Biology 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	,		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 Biology Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	B1- Cell Structure and	B3- Organisation and	B5- Communicable	B6- Preventing and	B8- Photosynthesis	B10- The Human Nervous
	Transport	the Digestive System	Diseases	Treating Diseases	B9- Respiration	System
	B2- Cell Division	B4- Organising Animals	B6-Preventing and	B7- Non-Communicable		
	B3- Organisation and the	and Plants	Treating Diseases	Diseases		
Year 10	Digestive System			B8- Photosynthesis		

# **Year 11 Biology Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 11	B11- Hormonal	B13- Reproduction	B15- Genetics and	B18- Biodiversity and	Revision	
Combined Science	Coordination B13- Reproduction	B14- Variation and Evolution	Evolution B17- Organising an	Ecosystems B16- Adaptations,		
Science	B13- Reproduction	Evolution	Ecosystem	Independence and		
			B18- Biodiversity and	Competition		
			ecosystems			
Year 11	B10- The Human Nervous	B12- Homeostasis in	B14- Variation and	B16- Adaptations,	Revision	
Triple	System B11- Hormonal	Action	Evolution B15- Genetics and	Independence and		
Science	Coordination	B13- Reproduction B14- Variation and	Evolution	Competition B18- Biodiversity and		
		Evolution	B17- Organising an	Ecosystems		
			Ecosystem			

## **Sixth Form Curriculum Overview**

# Biology

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	2.1- Cell Structure 2.2- Biological Molecules 2.5- Biological Membranes	2.3- Nucleic Acids 2.4- Enzymes 2.6- Cell division, diversity and differentiation	<ul><li>3.1- Exchange surfaces</li><li>3.2- Transport in animals</li><li>4.1- Communicable diseases</li><li>3.3- Transport in plants</li></ul>	3.3 – Transport in plants 4.3- Classification and evolution 4.2- Biodiversity 6.5- Ecosystems	6.6- Population and sustainability 4.2- Biodiversity	5.1- Communication and Homeostasis 6.5- Ecosystems
Year 13	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	5.2- Excretion as an example of homeostatic control 5.3 Neuronal communication 5.4- Hormonal communication 5.5- Plant and animal responses	5.6-Photosynthesis 5.7- Respiration 6.1-Cellular Control 6.2 Patterns of inheritance	6.2 Patterns of inheritance 6.3 Manipulating Genomes 6.4- Cloning and biotechnology	6.6- Populations and sustainability 6.4- Cloning and Biotechnology	Revision	

# **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  Biology Chemistry Physics	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	Unit 4: Laboratory Techniques and their Application
	Term 1	Term 2	Term 3	Term 4	place in May  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