

...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.'



# Chemistry Curriculum Overview

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

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	<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
	,		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 Chemistry Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	C1 Atomic structure C2 Periodic table	C3 Structure and bonding	C5 Chemical changes	C5 Chemical changes C6 Electrolysis	C7 Energy changes	C4 Chemical calculations

# **Year 11 Chemistry Curriculum Overview**

Year 11	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Triple	C8 Rates and equilibrium	C8 Rates and equilibrium  C9 Crude oils and fuels	C9 Crude oils and fuels  C10 Organic reactions	C10 Organic reactions C11 Polymers C12 Chemical analysis	C13 The Earth's atmosphere C14 The Earth's resources C15 Using our resources	Revision
Combined	C8 Rates and equilibrium	C8 Rates and equilibrium  C9 Crude oils and fuels	C9 Crude oils and fuels	C12 Chemical analysis	C13 The Earth's atmosphere  C14 The Earth's resources	Revision

# **Sixth Form Chemistry Curriculum Overview**

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	2.1 Atoms and reactions 4.1 Core organic chemistry	2.1 Atoms and reactions 4.1 Core organic chemistry	4.2 Alcohols, haloalkanes and analysis  2.2 Electrons, bonding and structure	4.2 Alcohols, haloalkanes and analysis  2.2 Electrons, bonding and structure	3.1 The periodic table and energy 3.2 Physical chemistry	3.1 The periodic table and energy 3.2 Physical chemistry 1.1 Practical skills and PAG focus but interweaved in every unit
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 13	5.1 Rates, equilibrium and pH 6.1 Aromatic compounds, carbonyls and acids	5.1 Rates, equilibrium and pH  6.1 Aromatic compounds, carbonyls and acids	5.2 Energy 6.2 Nitrogen compounds, polymers and synthesis	5.3 Transitions metals 6.2 Nitrogen compounds, polymers and synthesis	6.3 Analysis  Revision & Exam prepa	aration

# **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