

**Curriculum Intent:** Pupils will leave Bloxwich Academy with an understanding of the world around them; their scientific knowledge will be broad and in-depth, as they study topics within the disciplines of biology, chemistry and physics. Pupils will learn about the links between each of the sciences and how this helps us to explain everyday life and phenomena.

**Curriculum Rationale:** We ensure our science curriculum prepares our pupils for a wide range of careers and opportunities, by first teaching the fundamental concepts and skills. We then support our pupils to build their scientific knowledge and understanding, in all three disciplines, so that they become successful scientists. Opportunities for practical work are given throughout the course, at all key stages, including key required practical activities that pupils are assessed on during their GCSE examinations.

**What makes the Bloxwich experience unique:** You will study all three sciences and carry out a range of practical work, as well as receive opportunities for visits and talks from members of the scientific community.

### KS3 and KS4 Combined Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>7</b>	Cells & Particles	Forces & Skeleton	Skeleton & Atoms, Elements and Compounds	Light	Acids and Alkalis	Space
<b>8</b>	Reproduction & Chemical Reactions	Chemical Reactions & Energy	Health and Lifestyle	Separation Techniques & Electricity and Magnetism	Electricity and Magnetism & Ecology	Ecology & Sound
<b>9</b>	Photosynthesis & Periodic Table	Forces in Action & Gas Exchange	Earth & Density and Pressure	Density and Pressure & Genetics	Genetics & Metals	Fundamentals of Chemistry
<b>10</b>	Atomic Structure & Cell Biology	Energy, Energy Changes & Bonding	Electrolysis & Electricity	Organisation	Atomic Structure, Particle Model & Bioenergetics	Acids and Infection
<b>11</b>	Organic Chemistry & Homeostasis	Forces & Rates of Reaction	Genetics and Evolution, Waves & Chemical Analysis	Resources & Magnetism	Ecology, Atmosphere & Revision	Revision & Exams

### KS4 Triple Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>10</b>	Cell Biology	Organisation	Organisation & Infection	Infection	Bioenergetics	Revision & Mock Feedback
	Atomic Structure	Bonding	Quantitative Chemistry	Chemical Changes	Chemical Changes & Energy Changes	Revision & Mock Feedback
	Energy	Electricity	Electricity & Particle Model	Particle Model	Atomic Structure	Revision & Mock Feedback
<b>11</b>	Ecology	Homeostasis	Homeostasis & Genetics	Genetics	Revision & Exams	Revision & Exams
	Rate of Reaction	Organic Chemistry & Chemical Analysis	Chemistry of the Atmosphere	Using Resources	Revision & Exams	Revision & Exams
	Forces	Waves	Waves & Magnetism	Space Physics	Revision & Exams	Revision & Exams

For any further information regarding the science curriculum at Bloxwich Academy, please contact the Head of Science at [postbox@bloxwichacademy.co.uk](mailto:postbox@bloxwichacademy.co.uk).