

OAW Science Curriculum

Science at Oasis Academy Wintringham allows students to develop a deep and broad level of understanding about natural phenomena occurring in the world around them. Our exciting 5 year curriculum encourages both knowledge and skills development, with a clear focus on practical elements of Science investigation, through the teaching of 'Required Practicals'. Throughout the 5 year curriculum, students experience teaching and learning in topics covering Biology, Chemistry and Physics and the sequencing of lessons provides a clear structure for knowledge to be developed and retained.

Students in Year 10 can choose to follow either GCSE Combined Trilogy or GCSE Separate Sciences, the latter of which allows students to gain a deeper comprehension and apply understanding further. The AQA qualification provides our students with a detailed level of scientific understanding and the skills which support progression in undertaking further education courses, apprenticeships and traineeships in the local area.

Year 7	Year 8	Year 9	Year 10 combined	Year 11 combined
B1 Living systems B3 Genetics and evolution B5 Reproduction and growth B6 Ecosystems C1 The particulate nature of matter C2 Atoms, elements and compounds C4 Acids and alkalis P1 Forces and motion P4 Energy P6 Space	B2 Diet and health B4 Photosynthesis, respiration and circulation C3 Reactions C5 Materials and everyday chemistry C6 The earth and atmosphere P2 Levers, moments and pressure P3 Electricity and electromagnetism P5 Waves	B: Cell structure and transport B: Cell division B: Organisation and the digestive system B: Organising animals and plants B: Communicable diseases C: Atomic structure C: The periodic table C: Structure and bonding C: Chemical calculations C: Chemical changes P: Conservation and dissipation of energy P: Energy transfer by heating P: Energy resources P: Electric circuits P: Electricity in the home	<ul style="list-style-type: none"> • Preventing and treating diseases • Non-communicable diseases • Photosynthesis • Respiration • The human nervous system • Hormonal control • Reproduction • Electrolysis • Energy changes • Rates and equilibrium • Crude oil and fuels • Molecules and matter • Radioactivity • Forces in balance • Motion <p>Year 10 -Triple science additional topics</p> <ul style="list-style-type: none"> • Homeostasis in action • Organic reactions • Polymers • Force and pressure 	<ul style="list-style-type: none"> • The human nervous system • Hormonal control • Reproduction • Crude oil and fuels • Motion • Variation and evolution • Genetics and evolution • Adaptations, interdependence and competition • Organising and ecosystem • Biodiversity and ecosystems • Chemical analysis • The Earth's atmosphere • The Earth's resources • Force and motion • Wave properties • Electromagnetic waves • Electromagnetism <p>Year 11- Triple science additional topics</p> <ul style="list-style-type: none"> • Using our resources • Light • Space