

Curriculum Intent Statements

Faculty	Science				
Subject	Science				
<p>Our science curriculum has been designed to inspire pupils to be curious and develop a love for learning. The aim of science at our school is not just to achieve academic excellence, but to develop pupils' scientific knowledge, ensuring they understand the uses and implications of science today and in the future, and broaden their awareness of the world around them.</p> <p>We follow the Science National Curriculum. The mapping of the units of study has been designed to enable pupils to build on prior scientific knowledge and learning. At Key Stage 3, a curriculum based on core principles is followed. This incorporates cell structure and organisation of organisms, atomic structure and chemical reactivity, energy transfers, electricity, and forces. Pupils also have opportunities to work scientifically to apply their understanding in practical contexts.</p> <p>At Key Stage 4, pupils follow the AQA Combined Science Trilogy course, studying biology, chemistry, and physics. Biology topics such as organisation, genetics, infection, and response are studied. Chemistry topics of study include quantitative and qualitative chemistry, uses of the Earth's resources and renewable and non-renewable energy sources which are especially relevant in today's world. Energy, forces, and electricity are fundamental topics learnt in physics.</p> <p>The skills that the pupils learn studying science enables them to compare data, make informed decisions and judgements, and come to their own conclusions. Studying science encourages independent thinking and builds resilience, which is very much needed to go on and be successful in their chosen professions. Many of our students aspire to continue with their studies in pure science or associated courses, and go on to pursue careers in Medicine, Pharmaceuticals, Care etc.</p>					
Curriculum Time / Week	Year 7	Year 8	Year 9	Year 10	Year 11
	3	4	6	6	6
KS4 Qualifications	AQA GCSE Combined Science Trilogy				
Useful Learning Resources	www.bcbitesize/science.co.uk www.kerboodle.com www.educake.co.uk www.senecalearning.com/ www.bbc.co.uk/bitesize/subjects/zng4d2p www.bbc.co.uk/schools/gcsebitesize/science				
Staff teaching the subject	Role		Email		
Miss J Walmsley	Assistant Principal – Faculty Leader		jwalmsley@thewellsacademy.org		
Mr S Cox	Teaching & Learning Lead for Science		scox@thewellsacademy.org		
Mrs S Flynn	Teacher of Science		sflynn@thewellsacademy.org		
Miss G Kaur	Teacher of Science		gakaur@thewellsacademy.org		