

SUBJECT	Science	CURRICULUM LEADER	Dr Pennington	YEAR	7
ORGANISATION OF THE SUBJECT	Year 7 follow a general science course based on the Oxford AQA KS3 Activate Scheme of Work. This covers Biology, Chemistry and Physics alongside scientific skills. Practical investigations are an integral part of science lessons, to support the learning and progress of all students.				
Key Concepts (The big ideas underpinning this subject)			Key Skills in this subject		
<p>The curriculum in Year 7 is split into the three separate Sciences and follows the Big Ideas of Science principle:</p> <ol style="list-style-type: none"> 1. Physics - Forces, Electromagnets, Energy 2. Chemistry – Matter, Reactions, Earth 3. Biology - Organisms, Ecosystems 			<ul style="list-style-type: none"> • Scientific knowledge and understanding. • Application of Science. • Working scientifically. • Practical skills and techniques. • Mathematics for Science. 		
What will be learnt in this subject?			How will learning take place in this subject?		
<p>In Year 7, students begin studying the principle aspects of all three Science disciplines through the Big Ideas of Science. Each discipline is taught on a rotation basis:</p> <ul style="list-style-type: none"> • Energy – energy transfers and energy costs • Matter – the particle model and separating mixtures • Organisms – movement and cells • Forces – gravity and contact forces • Reactions – types of reaction, acids and bases • Ecosystems – Ecology and interdependence, plant reproduction • Electromagnets – current and potential difference • Earth – Earth's structure and the Universe 			<ul style="list-style-type: none"> • Verbal assessment in lessons • Low stakes high challenge quizzes • Practical investigations • Peer and self-assessment • Progress Assessments • End year examinations 		
What methods of assessment will be used?			How can you support learning and progress in this subject?		
<ul style="list-style-type: none"> • Written assessment tasks • End of unit tests • Homework assessments • Practical technique and skills test 			<ul style="list-style-type: none"> • Support students at home, encouraging them to complete homework and discussing their grades and progress. • Ensure you are aware of the different resources your child can access when they are not in school. • Support your child with effective time management. • Support the school by allowing your child to attend extra-curricular clubs and intervention sessions. 		
Equipment needed for this subject.			Learning outside the classroom: enrichment opportunities in this subject.		
Black pen, pencil, rubber, 30cm ruler and scientific calculator. Whiteboard, pen and rubber/cloth					