Intent, Implementation and Impact in Science.

Intent	Implementation	Impact
The intent of our Science curriculum is a curriculum which is accessible to all and which will develop pupil's scientific knowledge and conceptual understanding as well as develop scientific enquiry skills. We intend to prepare our pupils with the knowledge and skills required for transition into secondary school and for their future lives. We intend to teach lessons which are creative and engaging and which develop children's curiosity, interest and love of Science. Our intent is that pupils are equipped with the scientific knowledge and key vocabulary required to understand the uses	Pupils are taught the processes and concepts, as well as the skills required in the new National Curriculum. Science is taught regularly for at least 10 hours per term by the class teachers, who plan collaboratively in year groups, following outlined plans provided by the subject leader. Science is taught with an emphasis on the pupils' engagement in practical enquiry to support and develop their understanding of scientific concepts and skills. Existing knowledge is reinforced and remembered through regular retrieval tasks built into all lessons. Teachers use a range of strategies when assessing the children within each unit: exploration, investigative enquiry and illustrative enquiry. Cross-curricular links are made with other subjects where relevant, especially Maths (though the collecting and analysis of data), Computing (through research and data logging) and PSHE (keeping safe, growing up and life cycles) Progress is monitored using ongoing Teacher Assessment as well as an end of topic assessment. Assessment spreadsheets are updated 3 times a year to indicate each child's progress.	The impact of our science curriculum is that children understand the science behind life, as well as real life problems and concepts. Our children develop a curiosity for science and life itself. They feel confident to ask and explore questions with adults and their peers. Science books show a wide range of learning covered in all aspects of Science as indicated in the National Curriculum. Books have been moderated by Science subject leaders at other Aquila schools. Books, plans and assessment are monitored by the subject leader regularly and feedback is proved to all staff in order to maintain high standards and/or develop the subject. Progress and understanding is evident through books, Teacher Assessment and assessment data.

and implications of Science, today and for the future, and that they understand and have an appreciation of the role of Science in history and its impact on their lives today. We want to develop pupils' understanding of the nature, processes and methods of Science through different types of scientific enquiry that help pupils to answer scientific questions about the world around them. We aim to enable pupils to effectively communicate scientific ideas by using scientific vocabulary that they can use and understand.	Children are provided with feedback (as per Feedback Policy), which enables them to, not only recognise what they have done well, but also address any misconceptions or highlight areas that may challenge them further. Thus, each child is supported at the appropriate level to enable them to make the best progress possible. Children are given opportunities to work independently or collaboratively in pairs or small groups. They are encouraged to develop their speaking and listening skills as well as collaborative working skills through talk partners and groups experiments. Pupils are encouraged to use appropriate scientific vocabulary which is shared with them on class displays or working walls and is modelled by the class teacher. As well as this, children can access key scientific vocabulary on their knowledge organisers with definitions, which is currently being implemented across each year group unit.	Children understand and use a range of scientific vocabulary which can be seen in books and is evident in pupil consultations. Our children are well-prepared for secondary school Science.