Science

Intent:	**What we expect children to learn at Acklam Whin** Through our explicit teaching of Science, we aim to inspire and develop our children to be inquisitive about the world around them and to think and act as Scientists. During a pupil's journey from Y1 to Y6, our broad and balanced Science curriculum builds on the Knowledge and Understanding of the world our children develop across EYFS. **The purpose of our high-quality science curriculum from Year 1 to Year 6 is to:** ● develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics ● develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them ● are equipped with the scientific skills required to understand the uses and implications of science, today and for the future. We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this. Our science curriculum follows the structure of the National Curriculum and provides our children with a progression of skills and knowledge as they move through the school.
Implementation	**How we realise our intent in terms of a working framework**. • Science at Acklam Whin, is embedded in the EYFS curriculum and then developed in a progressive way across KS1 and KS2. • All of the National Curriculum aims are taught and build upon the Knowledge and Understanding of the world our children develop during their time in EYFS. • Our science curriculum enables children to broaden and deepen their scientific knowledge, understanding and skills in a progressive way from Year 1 to Year 6. Where an area is visited again, learning is reviewed and extended. • In EYFS the science curriculum is delivered through a combination of adult led, taught sessions and through a comprehensive selection of engaging continuous provision opportunities. • Lessons are planned using the science knowledge and progression of skills as a guide for each year group. Lessons will have a skills focus (observing and classifying, observation over time, fair testing, research, pattern seeking) and a knowledge focus. • By the time the children leave Year 6, they will have studied a broad range of topics covering all the disciplines of science: biology, chemistry, physics • Links with other areas of the curriculum-where possible- are embraced to provide a more meaningful learning experience • Practical exploration of concepts will be a focus of lessons, encouraging children to learn and embed skills, to foster problem solving and a healthy curiosity. • Subject specific vocabulary will be embedded throughout the science curriculum by modelling and displaying on working walls.

	• Opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts will be built into the curriculum • Children will be offered a wide range of extra-curricular activities, visits, trips and visitors to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class. • Regular events, such as Science Week or project days, such as Nature Day will provide broader provision and the acquisition and application of knowledge and skills.
Impact	**Impact: the effect of teaching science for our children and how we measure their learning in science at Acklam Whin.** We regularly reflect on standards achieved against the planned outcomes. We use continual teacher assessment/ skilful questioning within a lesson to identify level of understanding of pupils, correct misconceptions and use of science specific vocabulary. Regular discussions with pupils will take place. **The impact of teaching our science curriculum is to develop:** • Children who firstly enjoy science, become inquisitive, reflective learners and demonstrate positive attitudes. Children able to retain prior-learning and explicitly make connections between what they have previously learned and what they are currently learning. • Children will become increasingly critical and analytical with their science thinking and investigation work.