Mathematics

Intent:	**What we expect children to learn at Acklam Whin Primary School** Mathematics is a tool for everyday life. It is a whole network of concepts and relationships, which provide a way of viewing and making sense of the world. It is used to analyse and communicate information and ideas and tackle a range of practical tasks and real life problems ensuring that children are able to recognise the importance of maths in the wider world. Mathematics at Acklam Whin is about developing a secure and deep understanding of fundamental mathematical concepts and procedures that can be applied confidently across a range of contexts both in school and in their own lives and is achievable for all our children. We believe that a focussed and balanced mathematical education is the entitlement of all children, regardless of ethnic origin, gender, ability or special educational need. We are committed to developing children's curiosity about the subject, as well as an appreciation of the beauty and power of Mathematics.
Implementation	**How we realise our intent in terms of a working framework**. In September 2018, Acklam Whin joined the Archimedes Hub Teacher Research Group in order to begin a whole school journey towards Teaching for Mastery. The Five Big Ideas underpin our teaching. These are: coherence, representation and structure, mathematical thinking, fluency and variation Using the Teaching for Mastery approach, lessons are based on the most important conceptual knowledge and understanding that pupils need as they progress from Year 1 to Year 6. The concepts, known as 'Ready to Progress Criteria', provide a coherent, linked framework to support pupils' mastery of the primary mathematics curriculum. Lessons are designed so that objectives are achievable for all. We have high expectations and encourage a 'can do' attitude towards mathematics in all pupils. We develop resilience in the face of challenge and carefully scaffold learning so that everyone can make progress. Staff use the Power Maths/WRM to design lesson sequences. Lessons are planned in Year group teams using Power Maths, White Rose Maths, NCETM Professional Development materials and NCETM Ready to Progress Criteria guidance**.** The Early Years Foundation Stage curriculum in Mathematics is based on Development Matters – September 2020 (Non-statutory curriculum guidance for the early years foundation stage). Teaching for Mastery principals also apply to this setting and the use of high quality resources from White Rose Maths, Power Maths and NCETM support planning and learning. Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Pupils are encouraged to make links with their own experience, the real world and our half-termly learning contexts through cross curricula teaching.

Impact	**Impact: the effect of teaching Mathematics for our children and how we measure their learning in Mathematics at Acklam Whin.** The approach at Acklam Whin will ensure that: Pupils will develop an understanding of mathematical concepts. Pupils will be able to demonstrate deep mathematical thinking. Pupils will use and apply knowledge and understanding across the subject Pupils will be able to reason logically and apply a systematic approach to problem solving. Pupils will develop the ability to use and apply mental skills. Pupils will be effective communicators of mathematical ideas, facts and concepts. In addition to subject specific outcomes, the teaching of mathematics should also develop: Enthusiasm, self-confidence and resilience. Willingness to take risks and use initiative. Open-mindedness, perseverance and responsibility.