

Catshill First School and Nursery Maths Rationale

Maths at Catshill First School and Nursery	Why is this subject important?	How is maths organised?
Maths is a core subject in the national curriculum and a key component to every schools' teaching. At Catshill, there is a focus on teaching for mastery of the subject. Linger longer on things to develop a deep understanding of the skills needed to become effective mathematicians. In Early Years maths is developed through targeted play and use Mastering Number to secure firm foundations in the development of good number sense for all children from Reception through to Year 1 and Year 2.	Maths promotes healthy brain function and develops problem-solving skills. It supports logical reasoning and analytical thinking. Maths develops flexible thinking and creativity and opens up many different career paths. Mathematics offers children a powerful way of communicating. They learn to explore and explain their ideas using symbols, diagrams and spoken and written language. Maths is an essential basic skill with employers often seeking a qualification in maths. It is vital for jobs such as engineering, accountancy, banking, architecture and teaching.	• Across the Federation, a maths mastery curriculum is taught and we use White Rose to facilitate our mastery journey. • Lessons are broken down into a clear structure of Quiz, Chant, Anchor task, Guided practice, Do it, Twist it, Deepen it. • Lessons are not differentiated unless a child has a specific need. That child should still be taught using the maths mastery principles. • A CPA approach to maths is used; this uses concrete resources, models and representations within lessons based on the needs of the children.
How are other subjects linked?	How is the curriculum adapted?	How is progress measured?
• Maths is integral to many subjects across the curriculum, such as map reading on geography. • DT requires children to work with measurements, shapes and 3D mathematical modelling. • In science children are required to test predictions, record and measure, apply mathematical concepts, calculate results, use and interpret data appropriately and create tables and graphs. • Maths and English work together to further deepen children's understanding and create opportunities to communicate mathematical thinking. • Children use their language skills to communicate their ideas mathematically and justify their reasoning using modelled language.	• Inclusion for all pupils • Adaptive teaching to ensure access to the maths curriculum • Support within lessons where necessary • Use of manipulatives • Bespoke differentiation for pupils with EHCPs • Same day interventions.	• Daily AfL in the classroom and through feedback to each pupil's learning • Pupils from Year 2 onwards take regular STAR tests and reports are given to parents • Children in EYFS are assessed in number and shape & space. This is reported to parents • Pupils in Year 6 take SATs. There are papers in Reasoning and Calculation • Pupils are assessed termly on their maths attainment and progress by their teachers