MathematicsAt Carr Mill Primary School we believe maths is an essential skill and lies at the heart of our curriculum.

SUBJECT ON A PAGE:

 Intent- We aim to…

Develop a love and curiosity for maths at school. We strive for our pupils to become confident and life-long learners.

Demonstrate how essential maths is to our everyday life, how critical it is as a STEM subject and its presence in most forms of employment.

Develop a high-quality maths education which develops children’s fluency, reasoning and problem-solving skills and further develop vocabulary.

Provide children with the necessary life- long skills to ensure they can become fluent in key mathematical facts.

Build a community of engaged mathematicians who support each other to enjoy solving problems and applying maths knowledge to aspects in the real world.



|  |
| --- |
| We view mathematics as an entitlement for all, and that it is a key to academic success. All staff believe that their pupils are mathematicians, and we encourage our children to become resilient learners who are prepared to take on mathematical challenges.  |

 Implementation- How will we achieve our aims?

Carefully sequenced lessons

readread



Our high-quality teaching is underpinned by the CPA approach, ensuring the 3 aims of the National Curriculum (fluency, reasoning and problem-solving) are within every lesson and there are opportunities for all learners to make progress. Lessons are planned and delivered using White Rose Maths materials and a range of further resources (e.g. NCETM, I See Maths) are used to develop learning. By using our LTP and KSP documents, staff are consistent with our calculation policy, can identify misconceptions and use assessment opportunities to support learners through live marking. Staff use the 5 principles of mastery within their lessons to deepen understanding.

Vocabulary for reasoning

readread

We understand the importance of an extensive vocabulary in order to reason and discuss our opinions. Our pupils experience Maths in EYFS through stories and play. Throughout school, we explore vocabulary (Star Words) and use stem sentences to support pupils with their precision of explanations.



Having established the essential knowledge EYFS – Y6, we have termly non-negotiable statements which pupils learn within school. These facts are integral to future learning. Parents are supported at home so that children develop and retain this core knowledge. We have termly assessments of times tables and counting objectives (EYFS & KS1).

Non-negotiables key facts

readread



Reducing cognitive load

readread

Our spiral curriculum ensures children are constantly revisiting and developing their knowledge further. As we have researched retrieval practice, we are mindful of cognitive overload. Our morning starter activities and prior learning activities within lessons supports long term memory. Our Reception and KS1 pupils follow the Mastering Number programme which teaches and embeds basic number facts. Our curriculum ensures declarative, procedural and conditional knowledge.



Home partnerships

readread

To support parents and carers, children have free access to Times Tables Rockstars and Numbots We celebrate pupils’ successes through our Celebration Assembly & praise postcards. Weekly homework is also closely linked to learning from that week.



 Impact-How will we know we have met our aims?





Children display excitement and curiosity for maths. They can explain its relevance to their everyday life and future. They develop a love of the subject. They become fluent, competent and efficient mathematicians.

Leaders use learning walks, lesson visits, pupil voice, data and book looks to assess and evaluate outcomes.

Evidence-based CPD ensures staff are well supported and can support all children effectively to make good progress.

Children use precise vocabulary when investigating connections and generalisations.