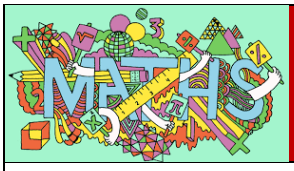

Curriculum Statement for Maths

Mathematics is a powerful and creative discipline that helps us make sense of the world.

At Red Oaks, we believe that maths is more than numbers—it's a way of thinking, exploring, and growing. Mathematics is a structured yet creative discipline that has evolved over centuries to solve problems, uncover patterns, and answer complex questions. It plays a vital role in everyday life and connects deeply with science, engineering, technology, and many future careers.

Our maths curriculum is designed to spark curiosity, build resilience, and help every child flourish as a confident mathematician. We nurture a love of learning and promote the belief that mathematical ability is not fixed, but developed through practice, support, and determination.

Through high expectations, structured teaching, and meaningful exploration, we help children understand not just how to do maths – but why it works, and how it connects to the world around them.

Intent

At Red Oaks, our aim is to provide a mathematics curriculum that:

- Supports a deep understanding of mathematical concepts and procedures
- Encourages fluency, reasoning, and problem-solving
- Builds confidence and resilience in all learners
- Promotes a growth mindset—where every child believes they *can* succeed
- Develops mathematical language and communication skills
- Ensures consistency in teaching and learning across all year groups

We refer to all children as *mathematicians*, reinforcing the belief that ability is not fixed but developed through practice, support, and hard work. Our approach fosters a love of learning and a "I can do it" or "I can't do it yet" attitude.

Implementation

We follow the **White Rose Maths** scheme, with the **teaching for mastery** principles underpinning every lesson. This approach focuses on:

- **Fluency** – developing quick and accurate recall of facts and procedures
- **Coherence** – ensuring learning is connected and builds on prior knowledge
- **Variation** – exposing mathematical structure through carefully chosen examples
- **Problem Solving** – applying knowledge to a range of contexts

Lessons are designed to make high expectations clear and to build depth of understanding. Mathematical concepts are taught using a combination of:

- **Concrete, pictorial, and abstract representations**
- **Carefully selected examples** to expose structure
- **Full-sentence reasoning** to explain not just what the answer is, but *why*

Children are encouraged to speak and write about mathematics clearly and confidently. Vocabulary is introduced and reinforced through a structured approach, helping pupils to reason and explain their thinking.

Impact

By the time children leave Red Oaks, they will:

- Be fluent in core mathematical skills
- Reason and explain their thinking using precise mathematical language
- Apply their knowledge to solve problems with confidence
- Demonstrate resilience and a positive attitude towards challenge
- Be well-prepared for the next stage of their education

Our approach ensures that children truly understand what they've learned—not just how to do it, but why it works. Mathematics at Red Oaks is about building strong foundations, nurturing curiosity, and helping every child see themselves as a successful mathematician.

Enrichment opportunities such as Magical Maths workshops and after school clubs**,** Times Tables Rock Stars (**TTRS)** and Numbots days and cross-trust challenges further inspire a love of maths and deepen engagement.

Useful links

Parents/Carers	**Children**
Adult learning support for mathematics. https://www.nnchallenge.org.uk/ National Numeracy Parent Toolkit has a wealth of tips and advice for parents. http://www.nnparenttoolkit.org.uk/ Oxford owl includes a range of activities, top tips and eBooks to help your child with their maths at home. http://www.oxfordowl.co.uk/maths-owl/maths Nrich, a range of maths games, problems and articles on all areas of mathematics. http://nrich.maths.org/frontpage	https://ttrockstars.com/login http://www.bbc.co.uk/bitesize/ks2/maths/ http://www.ilovemathsgames.com/ http://mathsisfun.com/index.htm http://www.mathszone.co.uk/ http://www.multiplication.com/ http://www.topmarks.co.uk/ https://uk.ixl.com

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Match sort/compare Talk about measure patterns	It's me 1,2,3 Circles Triangles 1,2,3,4,5, Shapes 4 sides	Alive in 5 Mass and Capacity Growing 6,7,8 Length Height/Time	Building 9 and 10 Explore 3D shapes	To 20 and beyond How many now? Manipulate Compose/ Decompose Sharing and grouping	Visualise Build Map Making connections
Year 1	Place value (within 10) Addition and Subtraction (within 10) Geometry (shape)		Place value (within 20) Addition and Subtraction (within 20) Place value (within 50) Measurement - Length and Height Measurement - Mass and Volume		Multiplication and Division Fraction Geometry (Position and Direction) Place value (within 100) Measurement money Measurement time	
Year 2	Place value Addition and Subtraction Geometry (Shape)		Measures – Money Multiplication and Division Measurement – Length and Height Measurement – Mass, Capacity and Temperature		Fractions Measurement – Time Statistics Geometry – Position and Direction	
Year 3	Place value Addition and Subtraction Multiplication and Division		Multiplication and Division Measurement – Length and Perimeter Fractions Measurement – Mass and Capacity		Fractions Measurement – Money Measurement – Time Geometry (Shape) Statistics	
Year 4	Place value Addition and Subtraction Measurement - Area Multiplication and Division		Multiplication and Division Measurement – Length and Perimeter Fractions Decimals		Decimals Measurement – Money Measurement – Time Geometry (Shape) Statistics Geometry (Position and Direction)	
Year 5	Place value Addition and Subtraction Multiplication and Division Fractions		Multiplication and Division Fractions Decimals and Percentages Measurement – Perimeter and Area Statistics		Geometry (Shape) Geometry (Position and Direction) Decimals Negative Number Measurement – Converting units Measurement – Volume	
Year 6	Place Value Addition and Subtraction, Multiplication and Division Fractions Measurement – Converting Units		Ratio Algebra Decimals Fractions, Decimals and Percentages Measurements – Area, Perimeter and Volume Statistics		Geometry – Shape Geometry – Position and Direction Themed Projects Problems solving	