

**SINAI JEWISH PRIMARY SCHOOL**  
**'Big School, Big Heart, Big Opportunities'**

## MATHS CURRICULUM

### INTENT

We cultivate a profound and comprehensive understanding of mathematics as an essential life skill, starting from Reception through to Year 6. We are dedicated to fostering not only conceptual understanding and procedural fluency but also the practical application of mathematical knowledge. Our curriculum is meticulously designed to enhance pupils' enjoyment, resilience, understanding and attainment in mathematics. By emphasising mastery across the key disciplines of arithmetic, geometry, algebra and data handling, we instil a deep appreciation and understanding of mathematical concepts. Our commitment is to make mathematics a dynamic, engaging and interactive experience that enhances children's enjoyment, resilience, understanding and attainment. By incorporating various mathematical challenges and real-world applications, we promote critical thinking and problem-solving skills. Our approach promotes a growth mindset, encouraging children to view challenges as opportunities for learning and growth. We place a strong emphasis on mathematical vocabulary, ensuring that students can articulate their reasoning and engage in mathematical discussions with confidence. Additionally, we aim to equip our students with the ability to recognise connections between mathematical concepts and the wider world, enriching their understanding of how mathematics extends beyond the classroom.

### IMPLEMENTATION

Our maths curriculum follows Maths Mastery principles from Reception to Year 6, incorporating a structured six-part lesson plan that includes transitions to maximise learning continuity and engagement. Each lesson emphasises key mathematical vocabulary, incorporates manipulatives for deeper understanding and employs strategies such as pre-teaching and same-day/next-day intervention. This prevents gaps in learning, ensuring that all lessons involve elements of problem-solving and challenge. Maths meetings occur three times a week for 20 minutes in both KS1 and KS2, emphasising repeated practice of fundamental skills across several curricular areas. Documenting progress during independent learning, providing next steps to master learning goals, addressing misunderstandings and incorporating challenges in every lesson are key elements of our teaching approach, ensuring a well-rounded and adaptable learning experience for all students.

### IMPACT

Our maths curriculum shapes confident, skilled and enthusiastic mathematicians. Our students excel in mathematics, demonstrating deep conceptual understanding and the ability to apply mathematical skills in diverse contexts, both within and beyond school. They articulate mathematical reasoning clearly, support their thinking with evidence and approach challenges with resilience and enjoyment. Our curriculum not only ensures academic success but also fosters a lifelong love for mathematics. Through consistent practice, real-world applications and dynamic learning, our children build a strong mathematical foundation, ready to navigate the complexities of the world with analytical and problem-solving skills.

### BIG OPPORTUNITIES

In our maths curriculum, we offer students a multitude of opportunities to engage with the subject beyond the confines of the classroom. Through platforms like TTRS, students participate in inter-school competitions, fostering healthy competition and motivating them to improve their mathematical fluency. External maths challenges, such as the Primary Maths Challenge, provide students with the chance to apply their skills in problem-solving and critical thinking on a broader scale. Moreover, our mastery approach enriches students' learning experiences by exposing them to various representations and real-life applications of mathematical concepts. Lessons are meticulously designed to incorporate real-world questions and examples, demonstrating the relevance of mathematics in everyday life. Within the classroom, students are encouraged to articulate their mathematical thinking using precise vocabulary and to explore different problem-solving methods. This approach not only deepens their understanding but also cultivates a collaborative learning environment where diverse perspectives are valued. By offering a range of opportunities for students to explore mathematics outside the traditional classroom setting, we aim to inspire curiosity, creativity and confidence in their mathematical abilities.

### KEY CONCEPTS, KNOWLEDGE & SKILLS

**Key Concepts: Patterns & Relationships, Problem Solving, Mathematical Language and Communication, Numerical Fluency**

Through exploring patterns and relationships, students learn to recognise and analyse mathematical structures, fostering critical thinking and problem-solving abilities. We emphasise the importance of numerical fluency, enabling students to manipulate numbers confidently and accurately. Mathematical language and communication are integral, as students articulate their reasoning and collaborate effectively to solve problems. By engaging in a range of activities and tasks that promote these concepts, students develop a deep understanding of mathematics while building essential skills for success in numeracy and beyond.

### ASSESSMENT

At the end of each unit, students undergo objectives tests on Maths.co.uk, allowing for targeted assessment. Gap analysis from Maths.co.uk informs specific interventions and whole-class Maths Meetings, ensuring tailored support where needed. Additionally, teachers administer summative tests each term, utilising resources such as Maths Mastery (Reasoning) and White Rose (Arithmetic) to assess students' proficiency. For Year 2 and Year 6, end-of-term assessments are conducted using past SATs papers for both reasoning and arithmetic, offering a benchmark for progress. Data from assessments is meticulously recorded on class spreadsheets, including percentages, previous attainment and current levels, facilitating thorough analysis and moderation. Moderation occurs within year groups before final moderation with the Maths Lead, ensuring consistency and accuracy. Additionally, KS2 students undergo half-termly assessments with TTRS Soundcheck, evaluating fluency and speed in times tables up to 12x12, further enhancing their mathematical skills.