



Goldsmith Primary Academy: Approach To Maths

Intent

At Goldsmith Primary Academy, we inspire pupils to become confident, fluent and creative mathematicians. Our curriculum fosters curiosity, reasoning and resilience, enabling children to think logically, solve problems and make connections across mathematical ideas. We aim to develop secure fluency and conceptual understanding so that pupils can apply maths confidently in everyday life and future learning.

Implementation

- **Curriculum Design:** We follow the Ark Mathematics Mastery curriculum, which is cumulative and concept-driven, ensuring knowledge builds progressively across year groups.
- **Fluency, Reasoning and Problem Solving:** Pupils develop a deep understanding of calculation using manipulatives and pictorial representations before moving to abstract methods.
- **Daily Maths Meetings:** Short sessions revisit key facts and concepts, strengthening recall and number fluency.
- **Digital Tools:** iPads enhance practice and engagement through TT Rock Stars, Numbots and Mathsbot.
- **Assessment and Progress:** Teachers assess learning daily through AFL, with formal Ark assessments each term to identify and address misconceptions swiftly.
- **Times Tables Fluency:** Regular practice ensures pupils are secure in all multiplication facts to 12×12 by Year 4.

Impact

- **Progress:** Termly assessments, diagnostic tests and ongoing AFL ensure teaching is responsive and targeted.
- **Outcomes:** Pupils demonstrate fluency, reasoning and problem-solving across the maths curriculum and can articulate their thinking clearly.
- **Challenge and Support:** Gaps are addressed through same-day intervention, consolidation weeks and Smart Start sessions.
- **Pupil Voice:**
"Maths lessons are challenging because there's always another problem to solve."
"Our lessons help us use maths in real life."

Assessment

- Ark Maths assessments termly for Years 1–5.
- Mock SATs papers in Years 2 and 6.
- Maths Mastery pre- and post-unit diagnostic tests to measure conceptual understanding.
- Daily Do Now activities and ongoing AFL to ensure responsive teaching.
- Same-day interventions and additional Maths Meetings address misconceptions promptly.
- Evidence tracked against key threshold concepts for each year group/Ready to progress framework.

Subject Knowledge, Skills and Vocabulary

Our maths curriculum builds a secure understanding of number, calculation and reasoning. Pupils develop:

- **Fluency** – rapid recall of key facts and confident use of number.
- **Reasoning** – explaining, justifying and proving mathematical ideas.
- **Problem Solving** – applying knowledge flexibly in varied contexts.
- **Representation** – using manipulatives and visual models to deepen understanding.
- **Mathematical Language** – precise use of vocabulary to describe, compare and explain.

Progression from EYFS to Year 6 ensures pupils revisit and deepen core concepts, enabling them to master maths with confidence and enjoyment.

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Inclusion

Mathematics at Goldsmith ensures equality of opportunity through daily fluency practice, same-day intervention and differentiated groups that respond quickly to gaps. Pupils with SEND or those at early stages are supported with concrete resources and scaffolded reasoning tasks so they join ambitious lessons alongside peers. Adaptive teaching and continual assessment ensure that all learners remain on track and build mastery.