



# Green Oaks Primary Academy

## Maths Policy

Persons Responsible:

Principal

Maths Subject Lead

Next Review Date:

May 2023

Policy Author:

Mrs A Dickens

Review Dates:

May 2022 (AD)

## Maths Policy

### Mission Statement

The Maths curriculum covers a wide range of knowledge and skills that encompass the need for “number sense” and reasoning capability for all pupils. At Green Oaks Primary Academy, we aim to develop children’s understanding and learning across all these areas, enabling them to hone their skills and become confident mathematicians.

### Calculation

At Green Oaks Primary Academy, we believe it is essential for children to develop a love and flair for mathematics who can demonstrate clear links between the skills taught and real-life applications. All pupils should be taught a range of mental and written calculation strategies using concrete and pictorial representations before attempting abstract methods.

Mathematics is taught through teacher modelling, group and paired discussion and open-ended investigations. Reasoning opportunities are scaffolded to ensure children make accelerated progress. WAGOLs, prompts and working walls are used to support children in their learning and encourage them to become independent mathematicians. Refer to the Calculation Policy for progression of skills.

All pupils are given opportunities to develop the language and reasoning skills in most learning contexts.

### Number Formation

Kinetic handwriting is taught across the school from Nursery to Year 6. This programme promotes strengthening of bodies for both gross and fine motor activities, improves consistent letter formation and stamina in writing.

### Expectations

- Maths is taught five times a week, each lesson lasts approximately one hour. The sequence of lessons followed is from the Deepening Understanding platform so our pupils access concepts on a spiral basis rather than blocked, allowing them the opportunity to apply skills to other concepts more frequently.
- Planning and resources can be taken from numerous sites, including Deepening Understanding, White Rose Maths and Twinkl Mastery, there is not one specific scheme that staff must use and their judgement and experience to source the most relevant and engaging activities for their cohort comes first and foremost.

- Lessons will be planned so that pupils have opportunities to work across the Fluency, Reasoning and Problem Solving activities. All pupils will access all three concepts. These will be evident in pupils' recorded work.
- A Continuous Provision area should be evident in all classes, and this should have a clear focus that can be discussed with the Class Teacher, examples are pre-teach, revisitation or additional challenge.
- Concrete resources and pictorial representations to be used to scaffold learning.
- Age-appropriate vocabulary is taught daily to enable pupils to be more-able in explaining their ideas and reading word problems. Vocabulary to support the current topic must be displayed.
- Consolidation tasks should be taught 3 x a week using Flashback questions, these can be recorded within Maths or skills books.
- Opportunities should be built into teaching that make links with careers on a regular basis so that pupils can begin to understand the importance of Maths in real-life situations.
- Maths should be taught in the outdoor learning environment where practical.
- In KS2, Arithmetic sessions should be taught as a minimum once per week and will include demonstration of methods to solve the calculations and give pupils the opportunity to complete tasks independently. They will also take part in a weekly timed arithmetic test and their results record on the relevant assessment sheet.
- Kinetic handwriting is taught across the school daily and should include the number forms. Kinetic should be modelled by adults where possible. Learning walls should support pupils independent learning.

## Assessment

- Teacher assessment is on-going throughout all lessons, however formal assessment judgements will be made in December, March and June. PiXL papers are to be used. QLA spreadsheets are to be completed as per the Key Dates List and outcomes shared with the Maths Subject Leader.
- Year 4 will use on-line practise resources from September in preparation of the Year 4 Times Tables check.