

## Greenfields Academy – Numeracy Rationale

### Intent:

At Greenfields Academy we consider Mathematics to be an important creative discipline that helps children to understand and change the world around them. We want all pupils to appreciate the power and enjoyment of mathematics and develop a sense of curiosity about the subject with a clear understanding. We want to foster positive can do attitudes. We believe all children can achieve in mathematics and therefore teach for secure and deep understanding of mathematical concepts through manageable steps. We acknowledge mistakes and misconceptions as an essential part of learning and provide challenge through rich and sophisticated problems. In line with the National Curriculum we aim to support children so that they can become fluent in the fundamentals of mathematics, reason mathematically and solve problem, allowing them to become independent thinkers and develop knowledge which can be applied to, and support learning across the curriculum.

### Implementation:

We use a wide variety of resources to motivate and inspire our children in Numeracy. Teachers also ensure that cross curricular links with concurrent topic work and Science work are woven into the programme of study.

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

Therefore, all children receive a 45-minute Numeracy session every day. As we have a high staff to pupil ratio, we are able to offer personalised and caring support to all of our children to ensure that they make good progress.

Pupils are also assessed every 6 weeks in a specific strand or topic within Numeracy to generate specific personalised targets which feed into their overall attainment progress in Numeracy. Pupils are also encouraged to assess and improve their own, and the work of their peers on a regular basis.

### Intended Impact:

We aim to ensure that pupils are secure in their Primary Numeracy knowledge to be able to access the Maths curriculum as they progress into secondary.

Termly assessment is showing that most children are making good progress each term in Numeracy – despite often having struggled with it in previous settings, we hope to continue to develop this to ensure it applies to all of our pupils.

This academic Year we intend to make further impact in the following areas of Numeracy:

- Children to demonstrate a quick recall of facts and procedures, including the recollection of the times table.
- Children to show increased confidence in believing that they can achieve in Numeracy.
- Each child achieves good progress, with some children making exceptional progress.
- Pupils to develop the flexibility and fluidity to move between different contexts and representations of maths.
- Pupils to develop the ability to recognise relationships and make connections in Numeracy lessons.
- Children show a high level of pride in the presentation and understanding of their Numeracy work.