

Rationale for Mathematics

We follow Ark Mastery Maths scheme for our curriculum. The key threshold concepts ('big ideas') that shape how pupils will learn are:

- Fluency
- Reasoning
- Problem solving

Our curriculum is split across the following subject areas for mastering knowledge:

- Number: place value; addition and subtraction; multiplication and division; fractions, decimals and percentages; algebra; ratio
- Geometry: properties of shape; position and direction;
- Measurement: length and height, perimeter and area; weight and volume, mass and capacity; money; time; temperature; converting units
- Statistics

Content is determined by the scheme to enable our progression of knowledge and skills model however it is individual teacher's responsibility to plan continuous opportunities for developing the following:

- Multiplication (times-tables)
- Telling the time

Mastery and depth of learning is defined as:

- Mastery (end of milestone): pupils meeting or mastering the end of key stage expectations and progress over time.
- Depth (day to day/across a year): pupils understanding lesson content well enough and being able to use and/or apply knowledge/skills

Proof of progress (POP) tasks are set by teachers to prove that pupils are gaining a deeper understanding of the same content/skills.

Nothing is learned unless it rests in long-term memories