

Subject Responsibility Statement - Maths

Subject Content 2020-2021

- The EYFS mathematics framework taken from *Development Matters for the EYFS* involves providing children with opportunities to develop and improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction and to describe shapes, spaces, and measure.
- For KS1-KS3 we personalise learning based on the following themes taken from the National Curriculum:
 - Number
 - Measurement
 - Geometry – properties of shapes
 - Geometry – position and direction
 - Statistics
 - Data

KS4 & KS5 follow accredited courses that are certified through OCNWM.

1. What are we trying to achieve?

At Pitcheroak School we teach mathematics to help every pupil to:

- Develop an interest in and a confident approach to mathematics in order to help them make sense of the world around them.
- Learn functional numeracy skills in order to live their lives as independently as possible.
- Have knowledge of money management to encourage economic stability.
- Have a sense of chronology and an understanding of time to give order to their lives.
- Achieve their full potential in all areas of mathematics through the National Curriculum and through accredited courses.

2. How is learning organised?

- Classes are set, grouped or taught individually according to their needs and ability.
- Every class has at least 3 Maths/Cognition & Learning lessons a week with Key Stages 1, 2 and 3 having at least 4 lessons a week. All lessons are 50 minutes long with the flexibility to make them longer if required.
- EYFS & KS1 use the EYFS Development Matters to scaffold planning.
- KS2 use IEPs, *SOLAR* steps, *Abacus* and elements of the EYFS framework to scaffold planning in line with the National Curriculum, meeting needs of individual pupils.
- KS3 use IEPs, *SOLAR* steps and the *Abacus* scheme, to scaffold planning in line with the new NC.
- KS4 and KS5 pupils are set for maths and follow OCNWM Accreditation modules where appropriate.

- Breadth and balance in mathematics is given to all our pupils using a range of practical, investigative, oral, written and problem-solving activities so that pupils may acquire knowledge, skills and understanding to the best of their ability.
- Mathematics is delivered through discrete lessons, cross curricular experiences and through careful use of any opportunities that may arise. Also during focus mornings such as Enterprise activities.

3. How well are we achieving our aims?

- Pupils have the opportunity to use a range of resources including practical, technical and visual resources such as books, calculators, iPads and use of the interactive whiteboard and laptops which enhances their learning.
- The *Numicon* approach to early number resources are available in each classroom.
- The *Signalong* augmentative communication system and symbols are used to aid the learning of mathematical vocabulary, mathematical concepts, and to help pupils communicate their mathematical thoughts and findings. Pitcheroak School has authored a signalong maths manual to enhance communication in classrooms.
- SOLAR is now used as a baseline tool for pupils and to plan personalised learning steps in KS2 & KS3.
- EYFS ages and stages are used to assess Reception pupils with SOLAR used as a baseline tool at end of year 1.