Mathematics at Parc Eglos encompasses all of the elements needed to become proficient mathematicians. As well as providing tools to tackle everyday problems and questions, it also supports children's ability to embrace real world maths with confidence and curiosity. Maths weeks provide opportunities for our children to make better sense of the world around them by engaging in 'real' maths, including Cornish maths week where we celebrate the rich mathematical learning opportunities that Cornwall has to offer. We recognise that mathematics is more than just the units of study in the National Curriculum and is, in fact, threaded through every experience and opportunity in life beyond school.

When teaching mathematics at Parc Eglos, we intend to provide a curriculum which caters to the needs of all individuals and sets them up with the necessary skills and knowledge for them to become successful and aspirational with regard to their future adventures and careers. We incorporate sustained levels of challenge through varied and high-quality mastery activities, with a focus on fluency, reasoning and problem solving.

Pupils are required to explore maths in depth, being taught to use mathematical vocabulary to develop their mathematical reasoning skills through carefully structured lessons, which include opportunities for discussion and collaboration. We encourage resilience and the understanding that to struggle is often a necessary step in learning.

Irrespective of ability, children leave Parc Eglos as confident, passionate and enthusiastic mathematicians who embrace the opportunity to be challenged and are excited about continuing their mathematical journey at secondary school and beyond.

<u>Equality-</u> When one thing is mathematically the same as another, looking at the direct relationship between two quantities. It is one of the most important mathematical concepts ever created. If pupils can achieve this level of understanding, they will possess a foundation of critical skills that are essential for building number sense, understanding number relations, and the ability to reason abstractly.

<u>Number Sense-</u> This is a child's fluidity and flexibility with numbers. It is having an understanding of what numbers mean, having the ability to visualise numbers and recognising different representations of numbers. Children with poor number sense will focus on the procedure, rather than making connections and spotting patterns within the number system. For example, the difference between counting in ones on a bead string and recognising that they can count more quickly in tens by using the visual aid of the white and red colours. Children with good number sense will be creative and want to spend more time exploring numbers.

Fluency- Knowing key mathematical facts and being able to recall them quickly.

Being efficient— Knowing the quickest, easiest and most accurate way to solve a problem or answer a question.

Being curious- Asking questions, seeking patterns, staying with a problem longer, being enthusiastic, enjoying and being intrigued by mathematics.

Making connections - Looking for and understanding connections within and across strands of learning, across curriculum subjects, with future and past learning, and within the real world.

	The Teaching of Fluency	The Teaching of Problem Solving	The Teaching of Reasoning	Collaboration	<u>Oracy</u>	<u>Vocabulary</u>	Modelling
Underpinned by:	We intend for all pupils to become fluent in the fundamentals of mathematics (including the four operations) 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.	We intend for all pupils to solve problems by applying their mathematics to a variety of problems with increasing complexity, showing resilience and perseverance.	We intend for all pupils to reason mathematically by following a line of enquiry-conjecturing, generalising, arguing, justifying, proving and explaining along the way.	A consistent approach to maths between all staff, pupils and parents is key. Calculation methods and other important strategies are shared. A passion for maths is developed by breaking the barriers between home and school maths.	The frequent opportunity for children to talk and discuss work in pairs and groups is integral to successful learning in maths.	We intend to create a vocabulary rich environment where key vocabulary, stem sentences and working walls are used to develop the confidence of pupils to explain mathematically.	Teachers teach key mathematical skills by modelling and demonstrating key methods and models. Good practice and consistent approaches are key (e.g. calculation policy).

Plan Objectives are taken from the White Rose in order to provide consistency and progression throughout school. A range of planning resources are used to give all children the opportunity to complete fluency, reasoning and problem solving based activities, including those provided by the White Rose, NCETM and NRICH. Objectives are broken down into small steps in order

Planning extracurricular activities such as maths days and Enterprise week

to provide an explicit

teaching sequence.

Teach

Direct modelling from the teacher will enable all children to learn new knowledge, skills and concepts within a unit. The school calculation policy will be used to ensure clear progression and consistency of approach. Manipulatives will be readily available to ensure support and extension opportunities for all children. Within lessons. work conferences will be evident in order to challenge or support groups

of children based

throughout a unit.

on formative

assessment

Collaborate

Continuously striving to better ourselves and frequently share ideas that have been particularly effective through: staff meetings, planning time and moderation meetings with our year group partners.

Collaboration is also key with our wider community, we seek out opportunities to make links within our local area. For example, Culdrose running assemblies sharing the important of maths within the Navy.

Collaboration between Parc Eglos and other local schools allows opportunities for our children to be taught by a variety of maths coordinators in a variety of settings and other like- minded peers. Previous maths projects have included 'Gifted and Talented' mathematicians, lower attaining girls and 'amber' children. Sessions have been conducted in as many as six different primary schools, and large day events at the 'Light and Life Centre'.

Excite

Our children are given an abundance of opportunities that engage and excite them, learning the power and enjoyment of maths within and beyond the classroom:

- Maths week makes links between maths and reading, with focuses being on story maths.
- Visits from a Mathmagician build on children's imagination.
- Outdoor maths promotes the vital link between maths in the classroom and the environment around us/ our wonderful world.
- Enterprize week promotes
 entrepreneurial development and the
 value of money- making clear and
 important links to charity within the
 local community.
- Cross curricular links show the importance of maths within every area of our life and learning. For example, the recent visit from Barclay Bank for a PSHRE unit.

Our children love maths and understand the significance and importance of it.

Train and Share

Teachers and Teaching Assistants take part in training opportunities and networking events.

- Maths network meetings within the MAT
- Termly training by
 Babcock (out of county)
- Maths Hub training events
- Maths projectsRekenrek for F/Y1/Y2
 Big Maths in Nursery/ F
 Maths mastery- NE, KH
 Maths SLE developmentKC
- MAT development of new calculation policy
- TA mastery training
- Leading maths training for ITT at TLI
- Maths SLE work within the MAT and further afield

Monitor

Continuously monitoring pupils' progress against expected attainment for their age, making summative assessments at the end of each term. Tracking meetings are in place each term to identify successes and priorities for the coming term. The main purpose of all assessment is to ensure that we are providing excellent provision for every child.

External Support Valuing the external scrutiny of teaching and learning at Parc Eglos in mathematics from our external agencies such as the

Cornwall

Maths Hub.