Subject Aims

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.

Subject Vision

Mathematics teaching at Silverdale St John's will inspire a love of problem solving with an ability to reason about numbers and a curiosity to investigate maths in the world around them. We will provide a foundation for understanding that will take the children to their next stage of education and beyond.

Lessons will be lively, engaging and carefully planned to engage the children, ignite the children's imaginations and encourage the children to talk, explaining their thinking. There will be a mix of new learning, practising skills and using and applying skills. The pitch and pace of the lessons will be well matched to the needs and learning styles of individuals, so ensure high expectations are met and progress is accelerated.

Learning	Community	Faith
Childrem will learn the appropriate maths skills needed to access the curriculum at the expected level for their age, either independently or with support. Learning will be relevant, with links made to previous and future learning and uses of mathematics. The appropriate mathematical vocabulary will be used.	Children will learn about the important role that mathematics plays in any careers, with members of the community invited in to share how they use maths in everyday life. The local area will be used to find patterns and rules in nature and local ameneties will be used to use numbers in context e.g. money.	The children will develop and apply skills in reflection and thinking through a variety of problem solving activities. They will develop a sense of awe and wonder through the relationships of number and the prescence of mathematics in nature.

Inspiring success through learning, community and faith.

We strive to provide the Christian foundations to enable our children to make good decisions. Our children will be inspired, guided and supported to achieve success, as they are all of infinite worth. Taught through a creative curriculum, our children will become global citizens and will care for all of God's creation.

I can do all things through Christ who strengthens me.
Philippians 4:13

Curriculum Overview – Maths links to the themes

	Autumn	Spring	Summer
	How does it work?	Watery World	The Great Outdoors
Year A	When was the calculator/computer invented? Time lines	Collect data Complete Spreadsheets	Collect data Patterns in nature
	Time Travel	Here, there and everywhere!	Happy, Healthy Me
Year B	Time lines Difference in time scales	Collect data	Collect data

Swans and Cygnets	Herons	Bitterns	Harriers
Reception and Nursery	Year 1 and 2	Year 3 and 4	Year 5 and 6

Medium Term Plans

Herons

Bitterns

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number: Addition and Subtraction				Number: Multiplication and Division			
Spring	Number: Multiplication and Division		Measurement: Length, Perimeter and Area		Number: Fractions				Y3: Measurement: Mass and Capacity / Y4: Number: Decimals			Consolidation
Summer	Number: Decimals (including Money)			Measurement: Time		Statistics		Geometry: Properties of Shape (including Y4 Position and Direction)				Consolidation

Harriers

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Four Operations					Number: Fractions				
Spring	Y5: Number: Fractions / Y6: Number: Ratio	Number: Decimals and Percentages			Y5: Number: Decimals / Y6: Number: Algebra		Measurement: Converting Units	Measurement: Perimeter, Area and Volume		Statistics		
Summer	Geometry: Properties of Shape		Geometry: Position and Direction	Y5: Four Operations consolidation / Y6: SATS			Y5: FDP consolidation / Investigations		Y5: Measure consolidation	Consolidation		