Maths

at

Silsden Primary

Silsden
Primary School

Silsden Threads of Learning

Young Minds, Free Spirit, Great Future

Silsden
Primary School

SILSDEN SEVEN / THREADS OF LEARNING

The Teaching of Maths

Maths at Silsden Primary School

-Every child says confidently and proudly 'I am a mathematician and I can do maths!'
-Our children and teachers love maths and notice it all around us
-Maths is purposeful and relevant to our children
-We embrace the fact that maths is a playful subject, where we explore and learn from our mistakes
-Our maths learning builds our children's confidence, resilience and independence
-Our maths is not just about the numbers! Its about understanding the process and concepts behinds the numbers.
-Our maths is accessible to all
-We challenge all of our pupils in order to deepen their understanding
-Our maths learning is based on simple building blocks that grow as we grow
-Our learning in maths includes concrete, pictorial and abstract representations, varied fluency and problem solving – we reason all the time!
-Maths is a time for talking – we talk about what we are doing, how we are doing and any connections we can make
-We teach maths using a wide variety of methods.
-Our children are confident to choose the resources they need to help them work like a mathematician.

The Teaching of Maths

Maths in Key Stage 1

Maths is taught daily in Key Stage 1. Lessons consist of four lessons per week focussing on learning objectives from the White Rose Maths long term overviews. These lessons focus on fluency, reasoning, problem solving or a combination of these skills. One lesson per week focusses on arithmetic skills.

Lessons usually follow an 'I do, we do, you do' approach. Concrete resources, pictorial representations and visual models are used routinely in the teaching of maths.

Year 1 and 2 Maths lessons are supplemented by the NCETM Mastery number program.

The Teaching of Maths

Maths in Key Stage 2

Maths is taught daily (approximately one hour lessons) in Key Stage 2. Each teaching week consist of four lessons focussing on learning objectives from the White Rose Maths long term overviews. These lessons focus on fluency, reasoning, problem solving or a combination of these skills. One lesson per week focusses on arithmetic skills.

Lessons involve recapping previous learning, introducing new learning, utilising a variety of representations and resources, mathematical talk and discussion using key vocabulary and a variety of group and paired and independent learning tasks. Lessons tend to follow an 'I do. We do. You do.' approach.

Resources used in lessons are carefully selected from a variety of sources and/or created by teachers to ensure lesson content is as suitable and focussed as possible.

Children in years 3 to 5 practise their times tables facts daily. These sessions are approximately 10 minutes long and include oral rehearsing of times tables facts, a 2-minute quiz (with supporting resources where necessary) and oral chanting of the multiplication and division questions.

The Teaching of Maths

Inclusion

Teaching input is invariably delivered to the whole class. Tasks are differentiated and adapted appropriately to ensure that all learners are able to access the learning. Some children may work in small groups or on a 1:1 basis to receive a significantly differentiated curriculum to their peers.

Same day interventions are used on an ad hoc basis to enable pupils who have struggled with learning in the lesson to receive extra support and teaching. We also use pre-teaching to enable pupils to 'keep up' rather than 'catch up'.

Intervention groups are used to focus on supporting pupils working just below the expectation (especially in year 6).

The Teaching of Maths

Assessment

Pupils use self assessment stickers to indicate how confident and secure they feel with each lesson's learning. Daily ongoing formative assessment is used ad hoc intervention is used to address any gaps.

Year 1 children complete a baseline assessment at the beginning of the school year. In December they complete another assessment. Children complete NFER assessments later in the year. In years 2-5, children complete NFER or previous SATs assessments termly. In year 6, children complete termly assessments using SATs papers from previous years. Through this, class teachers are able to identify common misconceptions, make comparisons to results nationally and identify strengths and weaknesses in order to inform next teaching steps.

Formative	Summative	Statutory	Ongoing
Daily within class to identify children needing additional support.	Every term using NFER assessments / SATs papers to assess progress, to identify gaps in learning that need to be addressed, to identify any children needing additional support and to plan individual and group interventions.	Children in Year 6 will sit SATS.	Children from Year 2 to 6 are assessed through their teacher's ongoing formative assessment. Intervention is provided for any child identified as needing additional support.

Year 1 Overview

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Year 2 Overview

	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**					Geometry **Shape**		
Spring	Measurement **Money**				Number **Multiplication and division**				Measurement **Length and height**	Measurement **Mass, capacity and temperature**		
Summer	Number **Fractions**				Measurement **Time**			**Statistics**	Geometry **Position and direction**		Consolidation	

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Year 3 Overview

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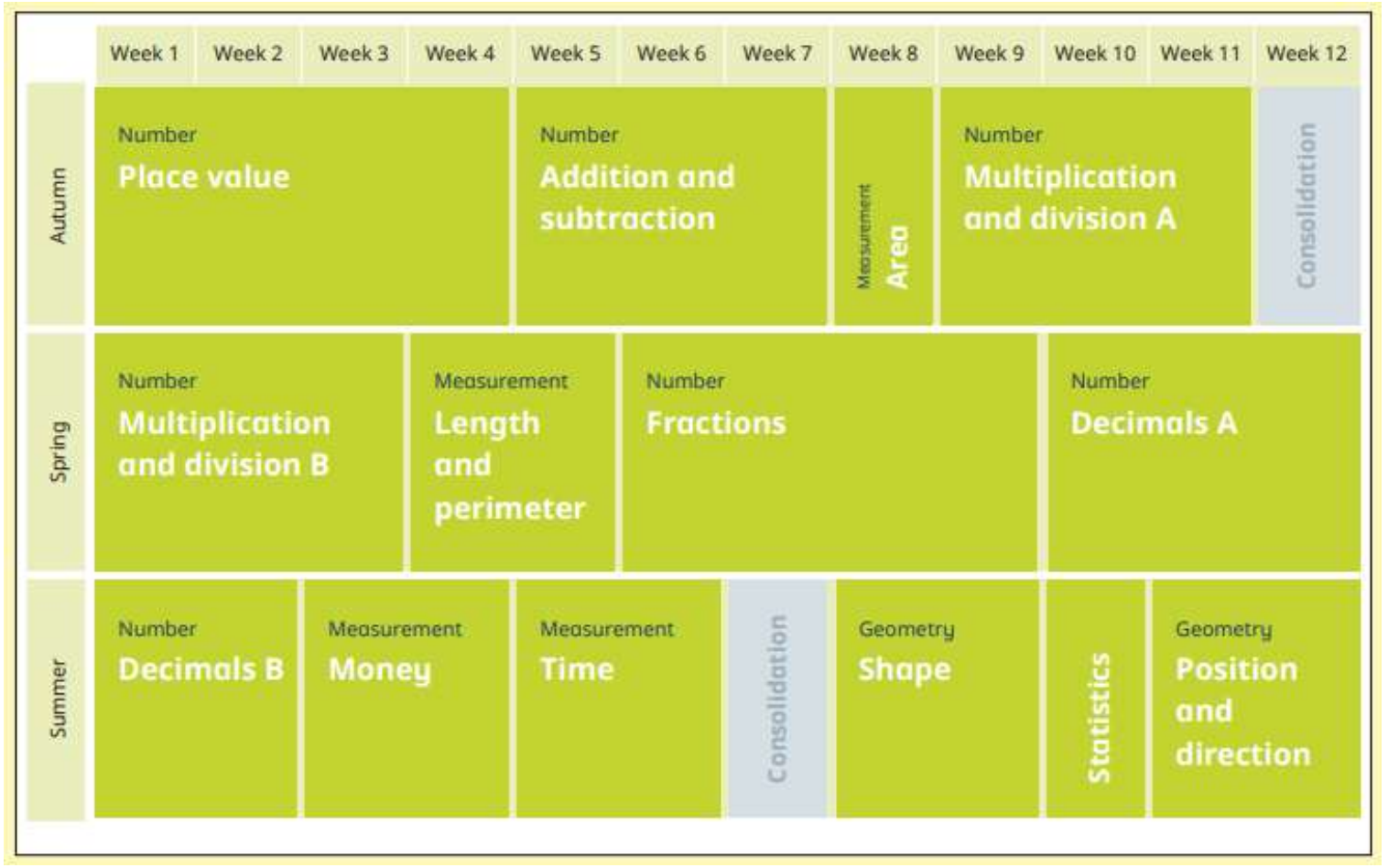
Year 4 Overview



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Year 5 Overview

	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 A			Number Fractions A			
Spring	Number Multiplication and division B			Number Fractions B		Number Decimals and percentages			Measurement Perimeter and area		Statistics	
Summer	Geometry Shape			Geometry Position and direction		Number Decimals			Number Negative numbers	Measurement Converting units		Measurement Volume

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Year 6 Overview

	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, subtraction, multiplication and division					Number Fractions A		Number Fractions B		Measurement Converting units
Spring	Ratio		Algebra		Number Decimals		Number Fractions, decimals and percentages	Measurement Area, perimeter and volume		Statistics		
Summer	Geometry Shape			Geometry Position and direction	Themed projects, consolidation and problem solving							

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The Teaching of Maths

Calculation Policy

We use the White Rose Maths calculation policy to ensure that we have clear a progression of representations and methods.

Click the link

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The Teaching of Maths

Useful websites

Click the icon to go to the website