Maths Year 3 Yearly Overview

Maths at Granby

- Objectives are written in order of teaching and in line with the White Rose Scheme of Work.
- An objective may equal part of a lesson, a one lesson or may require multiple lessons and broken into even smaller steps.
- The length of units may vary depending on cohort needs as previous year group objectives may need to be revised or retaught first.
- The lengths of units may vary or continue into the next term depending on events, trips, visitors and the assessment weeks which may interrupt a sequence of learning.
- Teachers will use their professional discretion to make decisions about the length and order of teaching sequences, and record changes on the overview accordingly.

Key:

Number and place value
Addition and Subtraction
Multiplication and division
Fractions
Decimals
Percentages
Measures
Geometry
Statistics
Algebra
Ratio

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Autumn	Autumn 1		Autumn 2
Domain	**Number and Place Value**	**Addition and subtraction**	**Multiplication and division**
Objectives	To know the place value of 2digit numbers (revision y2) To represent and partition numbers to 100 (yr2 revision) To understand hundreds To represent and partition numbers to 1000 To know the place value of numbers to 1000 To know the place value of numbers to 1000 To find 1, 10 and 100 more To find 1, 10 and 100 more To find 1, 10 and 100 less To find 1, 10 and 100 less To compare objects To compare numbers to 1000 To order numbers to 1000 To count in 50s	To apply number bonds within 10 To know complements to 100 To add and subtract 1s from 2digit and 3digit numbers To add and subtract 10s from 2digit and 3digit numbers To add and subtract 100s from 2digit and 3digit numbers To spot patterns To add 1s crossing 10 To add 10s crossing 10 To subtract 1s crossing 10 To add two digit numbers (regrouping). To add two digit numbers (regrouping). To subtract two digit numbers (exchanging). To subtract two digit numbers (exchanging). To subtract two digit numbers (exchanging). To add 2 and 3digit numbers (with regrouping). To add 2 and 3digit numbers (with regrouping). To add 2 and 3digit numbers (with regrouping). To subtract 2digit numbers from 3digit numbers (exchanging). To subtract 2digit numbers from 3digit numbers (exchanging). To estimate answers To understand and solve inverse operations.	To make equal groups. To make and use arrays. To know and identify multiples of 2 To know and identify multiples of 5. To know and identify multiples of 10. To divide by sharing and grouping. To multiply by 3. To divide by 3. To know the 3x table. To multiply by 4. To divide by 4. To know and apply the 4x table. To multiply by 8. To know and apply the 8x table. To revise the 2, 4 and 8x table. To multiply by 10.

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Spring	Spring 1		Spring 2
Domain	**Multiplication and division**	**Measures**	**Fractions**
Objectives	To understand related calculations. To reason about multiplication. To multiply 1digit x 2digit (no exchange). To multiply 1digit x 2digit (exchange) (two lessons). To link multiplication and division. To divide a 2digit number by a 1digit number (no exchange). To flexibly partition to divide. To divide 2digit numbers by 1digit numbers (with remainders) (two lessons). To divide 2digit numbers by 1digit numbers (with remainders). To develop multiplication skills using scaling. To be able to solve problems systematically. To recap multiplication and division	Length To be able to measure in m and cm. To measure in mm. To measure in cm and mm. To be able to measure in m, cm and mm. To recognise equivalent lengths (m and cm). To recognise equivalent lengths (cm and mm). To be able to compare m, cm and mm. To add length. To subtract length. Perimeter To calculate perimeter To measure perimeter. To calculate perimeter. To convert measurements. To revise length and perimeter	To understand the denominators of unit fractions. To compare and order unit fractions. To understand the numerator of non-unit fractions. To understand what a whole one is. To compare and order non-unit fractions. To understand fractions and scales (2 lessons). To understand fractions on a number line (2 lessons). To count in fractions on a number line. To understand equivalent fractions on a number line (2 lessons). To understand equivalent fractions as bar models. To add fractions. To subtract fractions. To partition the whole. To understand unit fractions of a set of objects To understand non-unit fractions as a set of objects. To reason with fractions of an amount

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Summer	Summer 1		Summer 2		
Domain	**Measures**	**Geometry**	**Measures**	**Statistics**	**Revision**
Objectives	Mass: To use scales To measure mass in grams To measure mass in kilograms To compare mass To understand equivalent masses To add and subtract mass Capacity: To measure capacity and volume in ml To measure capacity and volume in l To compare capacities To find equivalent capacities and volumes To add and subtract capacity and volume Money: To understand Pounds and pence To convert pounds and pence To add money To subtract money To find change	To understand turns and right angles To understand right angles To compare angles To measure and draw accurately To understand Horizontal and vertical To understand parallel and perpendicular To recognise and describe 2D shapes To draw polygons To recognise and draw 3D shapes To make 3D Shapes	To know Roman numerals to 12 To tell the time to 5 mins To tell the time to 1 min To read time on a digital clock To use am and pm To know years, months and days To understand days and hours To understand hours and minutes – use start and end times To understand ours and minutes – use durations To understand minutes and seconds To understand units of time To solve problems with time	To interpret pictograms To draw pictures To interpret pictograms To draw pictures To interpret bar charts To draw bar charts To read and understand two way tables To collect and represent data x3	