

Year 6 Curriculum Overview- 2023-24

The Year 6 Curriculum has been designed using the NCETM PD materials and the DFE Teaching Mathematics in Primary Schools documents.
Sequencing is based on the recommendations of the NCETM curriculum prioritisation curriculum

This is a working document and timing can be adapted to meet the needs of the children.

Autumn 1

Week 1	<u>Multiples of 1000</u> 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000
Week 2-5	<u>Numbers up to 10,000,000</u> 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. 6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. 1.30 Composition and calculation: numbers up to 10,000,000
Week 6-8	<u>Draw, compose and decompose shapes</u> 6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems. • recognise, describe and build simple 3-D shapes, including making nets • compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons • illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius • recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

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Autumn 2

Weeks 1-2	<u>Area, perimeter, position and direction</u>
	2.30 Multiplicative contexts: area and perimeter 2
Week 3-6	<u>Multiplication and Division</u>
	6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.
	2.18 Using equivalence to calculate
	2.23 Multiplication strategies for larger numbers and long multiplication
	2.24 Division: dividing by two-digit divisors
	2.25 Using compensation to calculate
Week 7	Assessment

Spring 1

Week 1-6	<u>Fractions and Percentages</u>
	6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.
	6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value.
	6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.
	3.8 Common denomination: more adding and subtracting
	3.9 Multiplying fractions and dividing fractions by a whole number
	3.10 Linking fractions, decimals and percentages

Spring 2

Week 1-2	<u>Ratio and Proportion</u>
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	6AS/MD–3 Solve problems involving ratio relationships.
	2.27 Scale factors, ratio and proportional reasoning
Week 3	<u>Calculating using knowledge of structures</u> 6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. 1.29 Using equivalence and the compensation property to calculate
Week 4-5	<u>Solving problems with two unknowns</u> 6AS/MD–4 Solve problems with 2 unknowns. 1.31 Problems with two unknowns • use simple formulae • generate and describe linear number sequences • express missing number problems algebraically • find pairs of numbers that satisfy an equation with 2 unknowns • enumerate possibilities of combinations of 2 variables
Summer 1	
Week 1	Statistics This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery PD Materials.
Week	<u>Order of operations</u> 2.22 Combining multiplication with addition and subtraction 2.28 Combining division with addition and subtraction
Week 3	<u>Mean average</u> 2.26 Mean average and equal shares
Summer 2	

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Problem Solving and Consolidation

Notes:

Y6Maths Meetings will take place for 15 minutes each day.

These sessions will include opportunities to practice automaticity of addition facts and times tables/ calculating efficiently.

They will also include daily opportunities to reason and problem solve developing mathematical thinking.