



Maths - Summer term - Year 5

Learning Experiences

Maths - Summer term - White Rose Maths

Number: Decimals

1. Adding decimals within 1
2. Subtracting decimals within 1
3. Complements to 1
4. Adding decimals - crossing the whole
5. Adding decimals with the same number of decimal places
6. Subtracting decimals with the same number of decimal places
7. Adding decimals with a different number of decimal places
8. Subtracting decimals with a different number of decimal places
9. Adding and subtracting wholes and decimals
10. Decimal sequences
11. Multiplying decimals by 10, 100 and 1000
12. Dividing decimals by 10, 100 and 1000

<https://resources.whiterosemaths.com/resources/year-5/summer-block-1-decimals/>

Geometry: Properties of shape

1. Identify angles
2. Compare and order angles
3. Measure angles in degrees
4. Measuring with a protractor
5. Drawing lines and angles accurately
6. Calculating angles on a straight line
7. Calculating angles around a point
8. Triangles
9. Quadrilaterals
10. Calculating lengths and angles in shapes
11. Regular and irregular polygons
12. Reasoning about 3D shapes

<https://resources.whiterosemaths.com/resources/year-5/summer-block-2-properties-of-shape/>

Geometry: Position and direction

1. Describe position
2. Draw on a grid
3. Position in the first quadrant

4. Translation
5. Translation with coordinates
6. Line of symmetry
7. Complete a symmetric figure
8. Reflection
9. Reflection with coordinates

<https://resources.whiterosemaths.com/resources/year-5/summer-block-3-position-direction/>

Measurement: Converting units

1. Kilometres
2. Kilograms and kilometres
3. Metric units
4. Imperial units
5. Converting units of time
6. Timetables

<https://resources.whiterosemaths.com/resources/year-5/summer-block-4-converting-units/>

Measurement: Volume

1. What is volume?
2. Compare volume
3. Estimate volume
4. Estimate capacity

<https://resources.whiterosemaths.com/resources/year-5/summer-block-5-volume/>

Associated Documentation

Core Subjects

Mathematics

Number

Skill Code	Skill Statement	Year
MNF07	solve simple measure and money problems involving fractions and decimals to 2 decimal places	Year 4
MNF07	solve problems involving number up to 3 decimal places	Year 5
MNF09	recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$	Year 4
MNF09	read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$]	Year 5
MNF09	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]	Year 6
MNF10	recognise and write decimal equivalents of any number of tenths or hundredths	Year 4
MNF10	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Year 5
MNF10	identify the value of each digit in numbers given to 3 decimal places and multiply and divide	Year 6

	numbers by 10, 100 and 1,000 giving answers up to 3 decimal places	
MNF11	compare numbers with the same number of decimal places up to 2 decimal places	Year 4
MNF11	read, write, order and compare numbers with up to 3 decimal places	Year 5
MNF12	round decimals with 1 decimal place to the nearest whole number	Year 4
MNF12	round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	Year 5
MNF12	solve problems which require answers to be rounded to specified degrees of accuracy	Year 6
MNF15	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction	Year 5

Measurement

Skill Code	Skill Statement	Year
MMM01	convert between different units of measure [for example, kilometre to metre, hour to minute]	Year 4
MMM01	convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]	Year 5
MMM01	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places	Year 6
MMM05	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Year 4
MMM05	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	Year 5
MMM10	find the area of rectilinear shapes by counting squares	Year 4
MMM10	calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm ²) and square metres (m ²), and estimate the area of irregular shapes	Year 5
MMM10	calculate the area of parallelograms and triangles	Year 6
MMM17	estimate volume [for example, using 1cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water]	Year 5
MMM17	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³]	Year 6
MMM18	estimate, compare and calculate different measures, including money in pounds and pence	Year 4
MMM18	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	Year 5
MMM18	convert between miles and kilometres	Year 6
MMM21	solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days	Year 4
MMM21	solve problems involving converting between units of time	Year 5
MMM22	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	Year 5
MMM22	solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate	Year 6

Geometry

Skill Code	Skill Statement	Year
MGPD02	describe movements between positions as translations of a given unit to the left/right and up/down	Year 4
MGPD02	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	Year 5
MGPS06	identify acute and obtuse angles and compare and order angles up to 2 right angles by size	Year 4
MGPS06	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	Year 5
MGPS07	draw given angles, and measure them in degrees ($^{\circ}$)	Year 5
MGPS07	draw 2-D shapes using given dimensions and angles	Year 6
MGPS08	identify angles at a point and 1 whole turn (total 360°)	Year 5
MGPS09	identify angles at a point on a straight line and a half turn (total 180°)	Year 5
MGPS09	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	Year 6
MGPS10	identify other multiples of 90°	Year 5
MGPS11	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	Year 4
MGPS11	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Year 5
MGPS11	recognise, describe and build simple 3-D shapes, including making nets	Year 6
MGPS12	distinguish between regular and irregular polygons based on reasoning about equal sides and angles	Year 5
MGPS12	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	Year 6
MGPS13	use the properties of rectangles to deduce related facts and find missing lengths and angles	Year 5