Numeracy Assessment Grid - Year 4 Working Towards Standard (WTS) – Evidence of Fluency

Number and Place Value | Evidence

Number and Place Value	Evidence		
Count in multiples of 6, 7, 9, 25 and 1000			
Count backwards through zero to include negative numbers			
Count up and down in hundredths			
Recognise the place value of each digit in a four-digit number			
Identify, represent and estimate numbers using different representations			
Order and compare numbers beyond 1000			
Find 1000 more or less than a given number			
Round any number to the nearest 10, 100 or 1000			
Round decimals (one decimal place) to the nearest whole number			
Compare numbers with the same number of decimal places up to two decimal places.			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer			
Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers	N/A	N/A	N/A

Statistics | Evidence

Statistics	Evidence		
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs			
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	N/A	N/A	N/A

Number: Addition and Subtraction | Evidence

Number: Addition and Subtraction	Evidence		
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate			
Estimate and use inverse operations to check answers to a calculation			
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	N/A	N/A	N/A

Number: Multiplication and Division | Evidence

Number: Multiplication and Division	Evidence		
Recognise and use factor pairs and commutativity in mental calculations			
Recall multiplication and division facts for multiplication tables up to 12 × 12			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout			
Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1 and multiplying together three numbers			
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	N/A	N/A	N/A

Geometry: Properties of Shapes | Evidence

Geometry: Properties of Shapes	Evidence		
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes			
Identify lines of symmetry in 2-D shapes presented in different orientations			
Complete a simple symmetric figure with respect to a specific line of symmetry			
Identify acute and obtuse angles and compare and order angles up to two right angles by size			

Number: Fractions and Decimals | Evidence

Number: Fractions and Decimals	Evidence		
Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten			
Recognise and show, using diagrams, families of common equivalent fractions			
Recognise and write decimal equivalents of any number of tenths or hundredths			
Recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$			
Add and subtract fractions with the same denominator			
Solve simple measure and money problems involving fractions and decimals to two decimal places	N/A	N/A	N/A
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	N/A	N/A	N/A

Geometry: Position and Direction | Evidence

Geometry: Position and Direction	Evidence		
Describe positions on a 2-D grid as coordinates in the first quadrant			
Plot specified points and draw sides to complete a given polygon			
Describe movements between positions as translations of a given unit to the left/right and up/down			

Measurement | Evidence

Measurement	Evidence		
Estimate, compare and calculate different measures, including money in pounds and pence			
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres			
Find the area of rectilinear shapes by counting squares			
Convert between different units of measure [e.g. kilometre to metre; hour to minute]			
Read, write and convert time between analogue and digital 12- and 24-hour clocks			
Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	N/A	N/A	N/A
Solve simple measure and money problems involving fractions and decimals to two decimal places.	N/A	N/A	N/A

When recording evidence, please use the following Key: Numeracy Book (NB), Test (T) or Arithmetic Tracking (AT). A date must accompany the annotation so that evidence can be more easily located e.g. NB 25/2.

Key: Autumn | Spring | Summer | Across more than one term

Numeracy Assessment Grid - Year 4 Expected Standard (EXP) – Evidence of Reasoning

Number and Place Value

Number and Place Value	Evidence		
Count in multiples of 6, 7, 9, 25 and 1000			
Count backwards through zero to include negative numbers			
Count up and down in hundredths			
Recognise the place value of each digit in a four-digit number			
Identify, represent and estimate numbers using different representations			
Order and compare numbers beyond 1000			
Find 1000 more or less than a given number			
Round any number to the nearest 10, 100 or 1000			
Round decimals (one decimal place) to the nearest whole number			
Compare numbers with the same number of decimal places up to two decimal places.			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer			
Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers	N/A	N/A	N/A

Statistics

Statistics	Evidence		
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs			
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	N/A	N/A	N/A

Number: Addition and Subtraction

Number: Addition and Subtraction	Evidence		
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate			
Estimate and use inverse operations to check answers to a calculation			
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	N/A	N/A	N/A

Number: Multiplication and Division

Number: Multiplication and Division	Evidence		
Recognise and use factor pairs and commutativity in mental calculations			
Recall multiplication and division facts for multiplication tables up to 12 × 12			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout			
Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1 and multiplying together three numbers			
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	N/A	N/A	N/A

Geometry: Properties of Shapes

Geometry: Properties of Shapes	Evidence		
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes			
Identify lines of symmetry in 2-D shapes presented in different orientations			
Complete a simple symmetric figure with respect to a specific line of symmetry			
Identify acute and obtuse angles and compare and order angles up to two right angles by size			

Number: Fractions and Decimals

Number: Fractions and Decimals	Evidence		
Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten			
Recognise and show, using diagrams, families of common equivalent fractions			
Recognise and write decimal equivalents of any number of tenths or hundredths			
Recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$			
Add and subtract fractions with the same denominator			
Solve simple measure and money problems involving fractions and decimals to two decimal places	N/A	N/A	N/A
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	N/A	N/A	N/A

Geometry: Position and Direction

Geometry: Position and Direction	Evidence		
Describe positions on a 2-D grid as coordinates in the first quadrant			
Plot specified points and draw sides to complete a given polygon			
Describe movements between positions as translations of a given unit to the left/right and up/down			

Measurement

Measurement	Evidence		
Estimate, compare and calculate different measures, including money in pounds and pence			
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres			
Find the area of rectilinear shapes by counting squares			
Convert between different units of measure [e.g. kilometre to metre; hour to minute]			
Read, write and convert time between analogue and digital 12- and 24-hour clocks			
Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	N/A	N/A	N/A
Solve simple measure and money problems involving fractions and decimals to two decimal places.	N/A	N/A	N/A

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Key: Autumn   Spring   Summer   Across more than one term

Numeracy Assessment Grid - Year 4 Greater Depth Standard (GDS) – Evidence of Problem Solving

Number and Place Value	Evidence			Number: Addition and Subtraction	Evidence			Number: Fractions and Decimals	Evidence		
Count in multiples of 6, 7, 9, 25 and 1000				Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate				Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten			
Count backwards through zero to include negative numbers				Estimate and use inverse operations to check answers to a calculation				Recognise and show, using diagrams, families of common equivalent fractions			
Count up and down in hundredths				Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why				Recognise and write decimal equivalents of any number of tenths or hundredths			
Recognise the place value of each digit in a four-digit number								Recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$			
Identify, represent and estimate numbers using different representations				Number: Multiplication and Division	Evidence			Add and subtract fractions with the same denominator			
								Solve simple measure and money problems involving fractions and decimals to two decimal places			
Order and compare numbers beyond 1000				Recognise and use factor pairs and commutativity in mental calculations				Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number			
Find 1000 more or less than a given number				Recall multiplication and division facts for multiplication tables up to 12 × 12				Geometry: Position and Direction	Evidence		
Round any number to the nearest 10, 100 or 1000				Multiply two-digit and three-digit numbers by a one-digit number using formal written layout				Describe positions on a 2-D grid as coordinates in the first quadrant			
Round decimals (one decimal place) to the nearest whole number				Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1 and multiplying together three numbers				Plot specified points and draw sides to complete a given polygon			
Compare numbers with the same number of decimal places up to two decimal places.								Describe movements between positions as translations of a given unit to the left/right and up/down			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer				Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects				Measurement	Evidence		
								Estimate, compare and calculate different measures, including money in pounds and pence			
Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value				Geometry: Properties of Shapes	Evidence			Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers				Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes				Find the area of rectilinear shapes by counting squares			
Statistics	Evidence			Identify lines of symmetry in 2-D shapes presented in different orientations				Convert between different units of measure [e.g. kilometre to metre; hour to minute]			
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs				Complete a simple symmetric figure with respect to a specific line of symmetry				Read, write and convert time between analogue and digital 12- and 24-hour clocks			
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs				Identify acute and obtuse angles and compare and order angles up to two right angles by size				Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days			
								Solve simple measure and money problems involving fractions and decimals to two decimal places.			

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Key: Autumn   Spring   Summer   Across more than one term