GOAL Assessments support APP at KS2

The GOAL interactive mathematics assessments support teachers in implementing the Assessment of Pupils' Progress initiative. This document shows how the questions map to the APP guidelines.

Level 2

Assessment focus	Bullet point	GOAL strand
Numbers and the number system	Begin to understand the place value of each digit; use this to order numbers up to 100	Strand 1
	Recognise sequences of numbers, including odd and even numbers	Strand 5
Mental methods	Use mental recall of addition and subtraction facts to 10	Strand 2
	Use mental calculation strategies to solve number problems including those involving money and measures	Strand 3
Solving numerical problems	Choose the appropriate operation when solving addition and subtraction problems	Strand 4
Properties of shape	Use mathematical names for common 3-D and 2-D shapes	Strand 6
Properties of position and movement	Distinguish between straight and turning movements	Strand 7
Measures	Begin to use a wider range of measures	Strand 8
Processing and representing data	Sort objects and classify them using more than one criterion	Strand 9
Interpreting data	Communicate their findings, using the simple lists, tables, pictograms and block graphs they have recorded	Strand 10

Level 3

Assessment focus	Bullet point	GOAL strand
Numbers and the number system	Recognise negative numbers in contexts such as temperature	Strand 1
	Recognise a wider range of sequences	Strand 4
Mental methods	Use mental recall of the 2, 3, 4, 5 and 10 multiplication tables	Strand 2
	Use mental recall of the 2, 3, 4, 5 and 10 multiplication tables	Strand 5
Written methods	Add and subtract three-digit numbers using method	Strand 3
Properties of shape	Classify 3-D and 2-D shapes in various ways using mathematical properties such as reflective symmetry for 2-D shapes	Strand 6
Properties of position and movement	Describe position and movement	Strand 7
Measures	Use non-standard units and standard metric units of length, capacity and mass in a range of contexts	Strand 8
Processing and representing data	Construct bar charts and pictograms, where the symbol represents a group of units	Strand 9
Interpreting data	Extract and interpret information presented in simple tables, lists, bar charts and pictograms	Strand 10

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Level 4

Assessment focus	Bullet point	GOAL strand
Numbers and the number system	Use place value to multiply and divide whole numbers by 10 or 100	Strand 1
Operations, relationships between them	Use inverse operations	Strand 4
Mental, written and calculator methods	Use efficient written methods of addition and subtraction and of short multiplication and division	Strand 2
Solving numerical problems	Check the reasonableness of results with reference to the context and size of numbers	Strand 3
Algebra	Use and interpret coordinates in the first quadrant	Strand 5
Properties of shape	Make 3-D models by linking given faces or edges	Strand 6
Properties of position and movement	Reflect simple shapes in a mirror line	Strand 7
Measures	Find perimeters of simple shapes and find area by counting squares	Strand 8
Processing and representing data	Construct simple line graphs	Strand 9
Interpreting data	Understand and use the mode and range to describe sets of data	Strand 10

Level 5

Assessment focus	Bullet point	GOAL strand
Numbers and the number system	Use understanding of place value to multiply and divide whole numbers and decimals by 10, 100 and 1000 and explain the effect	Strand 1
	Order negative numbers in context	Strand 3
Mental, written and calculator methods	Use a calculator where appropriate to calculate fractions/percentages of quantities/measurements	Strand 2
Algebra	Construct, express in symbolic form, and use simple formulae involving one or two operations	Strand 4
	Use and interpret coordinates in all four quadrants	Strand 5
Properties of shape	Know and use the angle sum of a triangle and that of angles at a point	Strand 7
Properties of position and movement	Identify all the symmetries of 2-D shapes	Strand 8
Measures	Understand and use the formulae for area of a rectangle and distinguish it from perimeter	Strand 6
Processing and representing data	Understand and use the mean of discrete data	Strand 9
Interpreting data	Interpret graphs and diagrams, including pie charts, and draw conclusions	Strand 10