Academic Year 2023-2024

Formulae, Sequences and Rules

4, 7, 10, 13

-Substituting into formula and expressions

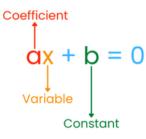
-Generating terms of a sequence

Introducing algebra

2x + 4

- Knowing the terminology for algebra
- -Using algebraic notation
- -Simplifying expressions by collecting like terms and multiplying over a bracket

Linear Equations



 Solving linear equations in one variable (unknown on one side) **Working with Place value**

Tens	Ones

- -Understanding place value
- -Ordering numbers and using correct symbolism
- -Working with terminating decimals and corresponding fractions
- -Expressing one quantity as a fraction of another

Fractions, Decimals and percentages

Fraction	Decimal	Percentage
		10%
$\frac{4}{5}$		
	0.17	
3 20		

- -Working with equivalences between simple fractions, decimals and percentages
- -Calculating decimal fraction equivalents for a simple fraction by considering fractions as divisions
- -Multiplying simple pairs of proper fractions, in simplest form
- -Dividing proper fractions by whole numbers

Stage 7

Academic Year 2023-2024

Order of operations

BIDMAS

- B BRACKETS
- I INDICES AND INTEGERS
- D DIVISION
- MULTIPLICATION
- A ADDITION
- S SUBTRACTION
- -Using inverse operations
- -Using order of operations (BIDMAS)
- -Using a calculator

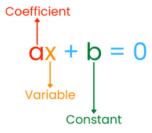
Stage

Percentages



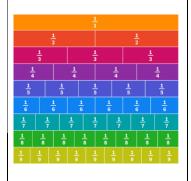
- Considering fractions and percentages as operators
- Working with percentages and percentage changes using fractions or decimals

Linear equations



Solving linear equations in one variable (unknown on one side)

Arithmetic with fractions



- Arithmetic with mixed numbers (including negatives)

Academic Year 2023-2024

Lines and Angles

Acute angle

Right angle

Obtuse angle

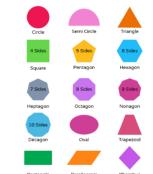
Straight angle

Reflex angle

Complete angle

- Using correct conventions for drawing (including points, lines, parallel lines, perpendicular lines and right angles)
- -Using the properties of angles at a point, on a straight line and vertically opposite

Properties of shapes and solids



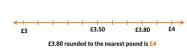
- Drawing and illustrating properties of plane figures
- -Using the properties 3d shapes to solve problems

The probability scale



- Understanding the probability scale
- -Understanding that the probabilities of all possible outcomes sum to 1

Powers, roots and rounding



- Using powers and roots
- -Reading to an appropriate degree of accuracy (inc. significant figures)

Stage 7