

S2 Unit 2 Topics (2018-19)

- Multiples, Factors and Primes
- Estimation and Rounding (linked to scale)
- Angle, Symmetry and Transformation (scale and similar shapes)
- Number and Number Processes (Integers)
- Expressions and Equations (Expressions)
- 2D Shapes and 3D Objects (Area of circle and 3D Objects)
- Measurement (volume)
- Powers and roots

Level 2	Level 3	Level 4
Multiples, Factors and Primes <ul style="list-style-type: none"> • MTH 2-05a 	Multiples, Factors and Primes <ul style="list-style-type: none"> • MTH 3-05a • MTH 3-05b 	Multiples, Factors and Primes
Identify multiples and factors of whole numbers and use to solve problems.	Find common multiples and then lowest common multiple. Find common factors and then highest common factor. Solve problems with multiples and factors. Identify and work with prime numbers up to 100. Prime decomposition.	
Estimation and Rounding <ul style="list-style-type: none"> • MNU 2-01a 	Estimation and Rounding <ul style="list-style-type: none"> • MNU 3-01a 	Estimation and Rounding <ul style="list-style-type: none"> • MNU 4-01a
Round whole numbers to nearest 1000, 10000, 100000. Round decimals to nearest whole number and up to 2 dp. Use rounding to estimate answers.	Round to up to 3 dp. Use rounding to estimate answers.	Round to any number of sig. Fig. Rounding in real life context. Understand the problems of inaccuracy and rounding error build up. Work with tolerance in the context of measure.
Angle, Symmetry and Transformation <ul style="list-style-type: none"> • MTH 2-17c • MTH 2-17d 	Angle, Symmetry and Transformation MTH 3-17c	Angle, Symmetry and Transformation <ul style="list-style-type: none"> • MTH 4-17b
Use 8-point compass and 3-figure bearings. Describe, follow and write routes. Interpret scales and scale drawings.	Find and use linear scale factor for enlargement and reduction of shapes.	Calculate the scale/area factor for similar shapes. Use the scale factor to find missing sides. Use the area factor to find unknown areas.
Number and Number Processes <ul style="list-style-type: none"> • MNU 2-04a 	Number and Number Processes <ul style="list-style-type: none"> • MNU 3-04a 	Number and Number Processes <ul style="list-style-type: none"> • MNU 4-03a

Familiar contexts for integers. Put negative numbers on a number line to order/compare.	Addition, subtraction, multiplication and division of integers.	Solve multi-step problems involving all 4 operations and BODMAS.
Expressions and Equations	Expressions and Equations • MTH 3-15b	Expressions and Equations • MTH 4-14b
	Create and evaluate simple, linear formulae.	Factorise expressions with a common factor.
Properties of 2D Shapes and 3D Objects • MTH 2-16a • MTH 2-16b	Properties of 2D Shapes and 3D Objects	Properties of 2D Shapes and 3D Objects
Recognise a variety of 2D and 3D shapes and demonstrate understanding of their properties, using appropriate vocabulary – regular, irregular, diagonal, radius, diameter, circumference. Know that radius is half diameter.		
Measurement • MNU 2-11c	Measurement • MNU 3-11a • MTH 3-11b	Measurement • MTH 4-11c
Area and perimeter of simple 2D shapes. Volume of simple 3D objects. Awareness of imperial units still in common use.	Choose appropriate units for length, area, volume. Convert between units. Calculate area of 2D shapes with inconsistent units. Compound area consisting of squares, rectangles, triangles. Compound volume consisting of cubes, cuboids.	Use formulae to calculate the volume of prisms - triangular prisms and cylinders.
Powers and Roots	Powers and Roots • MTH 3-06a	Powers and Roots • MTH 4-06a • MTH 4-06b
	Understand and use notation. Evaluate whole number powers. Express whole numbers as powers.	Find simple powers and roots of numbers. Know that square roots of whole numbers have positive and negative values. Convert to and from scientific notation.
Revision and Test 2	Revision and Test 2	Revision and Test 2