S1 Curriculum for Excellence Course A

August - September

Number and number processes

3-03a	I can use a variety of methods to solve number problems in familiar contexts, clearly communicating my processes and solutions. https://www.mathsisfun.com/numbers/index.html	**+ 4-03a**
3-03b	I can continue to recall number facts quickly and use them accurately when making calculations.	**+ 4-03b**
3-04a	I can use my understanding of numbers less than zero to solve simple problems in context. https://www.mathsisfun.com/positive-negative-integers.html	

Ideas of chance and uncertainty

3-22a	I can find the probability of a simple event happening and explain why the consequences of the event, as well as its probability, should be considered when making choices. https://www.mathsisfun.com/data/probability.html	**+ 4-22a**

September – October

Fractions, decimal fractions and percentages https://www.mathsisfun.com/fractions-menu.html
https://www.mathsisfun.com/percentage-menu.html   https://www.mathsisfun.com/decimals-menu.html

3-07a	I can solve problems by carrying out calculations with a wide range of fractions, decimal fractions and percentages, using my answers to make comparisons and informed choices for real life situations. https://www.mathsisfun.com/decimal-fraction-percentage.html
3-07b	By applying my knowledge of equivalent fractions and common multiples, I can add and subtract commonly used fractions. https://www.mathsisfun.com/fractions_addition.html
3-07c	Having used practical, pictorial and written methods to develop my understanding. I can convert between whole or mixed numbers and fractions. https://www.mathsisfun.com/proper-fractions.html
3-08a	I can show how quantities that are related can be increased or decreased proportionally and apply this to solve problems in everyday context. https://www.mathsisfun.com/definitions/proportional.html

October Assessment

Mathematics - its impact on the world, past present and future

3-12a	I have worked with others to research a famous mathematician and the work they are known for, or investigated a mathematical topic, and have prepared and delivered a short presentation.

October - November

Estimation and rounding

3-01a	I can round a number using an appropriate degree of accuracy, having taken into account the context of the problem https://www.mathsisfun.com/rounding-numbers.html	**+ 4-01a**

Data and analysis https://www.mathsisfun.com/data/

3-20a	I can work collaboratively, making appropriate use of technology, to source information presented in a variety of ways, interpret what it conveys and discuss whether I believe the information to be robust, vague or misleading	**+ 4-20a**
3-20b	When analysing information or collecting data of my own, I can use my understanding of how bias may arise and how sample size can affect precision, to ensure that the data allows for fair conclusions to be drawn	**+ 4-20b**
3-21a	I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams, graphs, making effective use of technology	

November - December

Properties of 2D shapes and 3D objects

3-16a	Having investigated a range of methods, I can accurately draw 2D shapes using appropriate mathematical instruments and methods. https://www.mathsisfun.com/geometry/construct-ruler-compass-1.html

Time https://www.mathsisfun.com/time.html

3-10a	Using simple time periods I can work out how long a journey will take, the speed travelled at or distance covered, using my knowledge of the link between time, speed and distance. https://www.mathsisfun.com/measure/speed-velocity.html

	January Assessment
	January - February

Expressions and equations https://www.mathsisfun.com/algebra/index.html

3-14a	I can collect like algebraic terms, simplify expressions and evaluate using substitution. https://www.mathsisfun.com/algebra/like-terms.html https://www.mathsisfun.com/algebra/substitution.html
3-15a	Having discussed ways to express problems or statements using mathematical language, I can construct, and use appropriate methods to solve, a range of simple equations.

Patterns and relationships

3-13a	Having explored number sequences, I can establish the set of numbers generated by a given rule and determine a rule for a given sequence, expressing it using appropriate notation.

	February - March

Angle, symmetry and transformation

3-17a	I can name angles and find their sizes using my knowledge of the properties of a range of 2D shapes and the angle properties associated with intersecting and parallel lines. https://www.mathsisfun.com/angles.html https://www.mathsisfun.com/geometry/parallel-lines.html	
3-17b	Having investigated navigation in the world, I can apply my understanding of bearings and scale to interpret maps and plans and create accurate plans, and scale drawings of routes and journeys. https://www.mathsisfun.com/measure/compass-north-south-east-west.html	
3-17c	I can apply my understanding of scale when enlarging or reducing pictures and shapes, using different methods, including technology. https://www.mathsisfun.com/definitions/scale.html	
3-18a	I can use my knowledge of the co-ordinate system to plot and describe the location of a point on a grid. https://www.mathsisfun.com/data/cartesian-coordinates.html	**+ 4-18a** **+ 4-18b**
3-19a	I can illustrate the lines of symmetry for a range of 2D shapes and apply my understanding to create and complete symmetrical pictures and patterns. https://www.mathsisfun.com/geometry/symmetry.html	**+ 4-19a**

	April Assessment
	April – June

Multiples, factors and primes   https://www.mathsisfun.com/numbers/factors-multiples.html

3-05a	I have investigated strategies for identifying common multiples and common factors, explaining my ideas to others and can apply my understanding to solve related problems.	
3-05b	I can apply my understanding of factors to investigate and identify when a number is prime. https://www.mathsisfun.com/definitions/prime-number.html	

Powers and roots   https://www.mathsisfun.com/square-root.html   https://www.mathsisfun.com/numbers/nth-root.html

3-06a	Having explored the notation and vocabulary associated with whole number powers and the advantages of writing numbers in this form, I can evaluate powers of whole numbers mentally or using technology.	**+ 4-06a** **+ 4-06b**

Measurement   https://www.mathsisfun.com/measure/index.html

3-11a	I can solve practical problems by applying my knowledge of measure, choosing the appropriate units and degree of accuracy for the task and using a formula to calculate area or volume when required.
3-11b	Having investigated different routes to a solution, I can find the area of compound 2D shapes and the volume of compound 3D objects, applying my knowledge to solve practical problems. https://www.mathsisfun.com/area.html https://www.mathsisfun.com/geometry/cuboids-rectangular-prisms.html

	June Assessment

Money https://www.mathsisfun.com/money/index.html

3-09a	When considering how to spend my money, I can source, compare and contrast different contracts and services, discuss their advantages and disadvantages, and explain which offer best value to me.
3-09b	I can budget effectively, making use of technology and other methods, to manage money and plan for future expenses.

Recommended Revision: Level 3/4 PowerPoint and www.mathsrevision.com