

Student Knowledge and Skills Tracker for Year 7

Term 1	Check		
Unit 1 – Positive Integers and Decimals			
• I can recognise the place value of an integer			
• I can understand and write integers up to 1 billion in words and figures			
• I can work out intervals and position integers on a number line			
• I can round integers to the nearest power of 10			
• I can compare two numbers using =, ≠, <, >, ≤, ≥			
• I can order a list of integers			
• I understand place value for decimals			
• I can compare and order any numbers up to one billion			
• I can use four operations with integers and decimals			
• I can multiply and divide by powers of 10			
Unit 2 – Factors, Multiples, Squares, Cubes and Order of Operations			
• I can understand and use multiples			
• I can understand and use factors			
• I understand the meaning of square, cube, square root, and cube root of a number			
• I can understand and use the order of operations in calculations			
• I can use calculators to apply operations			

Term 2	Check		
Unit 3 – Directed Number (Negative Numbers)			
• I can understand and use representations of directed numbers			
• I can represent numbers on a number line			
• I can order directed numbers using lines and appropriate symbols			
• I can perform calculations that cross zero			
• I can perform the four operations on directed numbers			
Unit 4 - Percentages			
• I can define percentage as ‘number of parts per hundred’			
• I can interpret a percentage as a fraction or decimal			
• I can convert a fraction or a decimal to a percentage			
• I can compare two quantities using percentages			
• I can express one quantity as a percentage of another			
• I can find a percentage of a quantity using multiplication			
• I can reduce or increase a quantity by a percentage			

Term 3	Check		
Unit 5 - Fractions			
• I can use fraction notation and express one quantity as a fraction of another			
• I can convert between improper fractions and mixed numbers			
• I can identify equivalent fractions, simplify fractions, and compare fractions			
• I can find the reciprocal of a number			
• I can perform the four operations on fractions and on mixed numbers			
• I can calculate fractions of quantities			
• I can apply fractions to practical situations			
• I can identify fractions as rational numbers			
Unit 6 – Introduction to Algebra			
• I can use letters to represent numbers			
• I can interpret simple algebraic notations			
• I can substitute integers into simple expressions and formulae			
• I can write simple expressions and formulae			
• I can simplify expressions by collecting like terms			
• I can add and subtract linear expressions			
• I can expand a single bracket			

Term 4	Check		
Unit 7 – Solving Equations in One Variable (one letter)			
• I understand the concept of equations			
• I can solve equations in one variable			
• I can solve simple equations involving brackets			
• I can write simple equations in one variable to solve problems			
Unit 8 – Collecting, Organising and Displaying Data			
• I can recognise different methods of collecting data			
• I can identify and write appropriate survey questions			
• I can organise data			
• I can create frequency tables			
• I can construct, analyse and interpret picograms, vertical line charts, bar charts and compound (dual) bar charts.			
Unit 9 – Angles, Parallel Lines and Triangles (and into Term 5)			
• I can describe a point, a line, a line segment, a ray, and a plane			
• I can construct lines, line segments and angles using geometry equipment			
• I can identify different types of angles			
• I can recognise the properties of vertically opposite angles, angles on a straight line and angles on a point			
• I can recognise the properties of angles formed by parallel lines and transversals			
• I can find unknown marked angles in a diagram using the above properties			
• I can classify triangles based on their sides and angles			
• I can understand the general properties of sides and angles of a triangle			
• I can construct triangles where 3 sides are given.			

Term 5	Check		
Unit 10 – Transformations, Symmetry and Congruence (and into Term 6)			
• I can translate, rotate, and reflect 2D shapes			
• I can describe translations in vector form			
• I can combine transformations			
• I can recognise and describe reflective symmetry of 2D shapes			
• I can recognise and describe rotation symmetry of 2D shapes			
• I understand the idea of congruence			
• I can match the sides and angles of two congruent shapes			

Term 6	Check		
Unit 11 – Perimeter and Area of Triangles and Circles			
• I can find the perimeter and area of a triangle			
• I can find the circumference and area of a circle			
• I can find the perimeter and area of a semi-circle and a quarter of a circle			
• I can find the length given the perimeter or area of a shape			
• I can solve problems involving perimeters and areas of composite (2+ shapes) plane (2D) figures formed by rectangles, squares, triangles and circles			
Unit 12 – Volume and Surface Area of Cuboids, including Cubes			
• I can draw nets of cuboids, including cubes			
• I can calculate the surface area of cuboids, including cubes			
• I can calculate the volume of cuboids, including cubes			
• I can solve problems involving volume and surface area of cuboids, including cubes			