

YEAR 7 OVERVIEW 2020/21 – MATHS

| | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|---------------|--|--|---|--|---|---|
| Year 7 | Number system and the axioms | Positive and negative numbers | Angles | Coordinates | Primes, factors and multiples | Ratio |
| | <ul style="list-style-type: none"> Place value systems including base 10 and other bases Commutativity, associativity and distributivity | <ul style="list-style-type: none"> Negative numbers in context Using negative numbers with all four operations | <ul style="list-style-type: none"> Measuring and drawing angles Angles on a straight line and around a point Angles in parallel lines Creating expressions from angle facts | <ul style="list-style-type: none"> Plotting points in all four quadrants Horizontal and vertical lines Midpoints of line segments Problem solving on a coordinate grid | <ul style="list-style-type: none"> Prime factor decomposition LCM and HCF Square roots and cube roots | <ul style="list-style-type: none"> Ratio notation Understand the relationship between ratio and fractions Working with ratios and quantities |
| | | | Classifying 2-D shapes | Area of 2-D shapes | | |
| | Factors multiples and the order of operations | Expressions, equations and sequences | <ul style="list-style-type: none"> Classifying polygons according to their properties Rotational and line symmetry | <ul style="list-style-type: none"> Area of triangles and quadrilaterals Formulae and solving equations | Fractions | Percentages |
| | <ul style="list-style-type: none"> Factors, primes and multiples Square and cube numbers Representing the structure of number Establishing the order of operations | <ul style="list-style-type: none"> Finding missing terms in sequences Finding the nth term Writing expressions Recognising equivalent expressions Forming equations | Constructing triangles and quadrilaterals | Transforming 2-D figures | <ul style="list-style-type: none"> Equivalent fractions Converting between fractions and decimals Recurring decimals Multiply and divide fractions Fractions of amounts Mixed numbers and improper fractions Addition and subtraction of fractions | <ul style="list-style-type: none"> Equivalence to fractions and decimal fractions Percentage of an amount Percentage increase and decrease Finding the original amount Using percentages, fractions and decimals in different contexts including probability |
| | | | <ul style="list-style-type: none"> Using a ruler, protractor and compasses to construct 2-D shapes Using properties of quadrilaterals and triangles to explore standard constructions. | <ul style="list-style-type: none"> Translation, rotation and reflection of an objects on a cartesian plane Enlargement by a positive scale factor | | |