

YEAR 7 OVERVIEW - Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
White Rose Maths - Year 7	Sequences	Place value and ordering integers and decimals	Solve problems with addition & subtraction	Four operations with directed number	Constructing, measuring and using geometric notation	Developing number sense
	Describe and continue sequences in diagram and number forms, both linear and non-linear Compare numerical and graphical forms	Recognise and use integer place value up to one billion. Recognise and use decimal place value to at least hundredths Work out intervals and use number lines Compare and order numbers Use ordered lists to find range and the median of a set of data Round numbers to positive powers of ten Round numbers to one significant figure	Use mental and formal written methods of addition with integers and decimals, including choosing the most appropriate method Solve problems in the context of bar charts and line charts Careers Lesson – Landscape Gardener	Order directed numbers, both in contextualised and abstract situations Revisit four operations to include directed number Use a calculator with directed number Solve two-step equations (with and without a calculator) Use the order of operations	Understand and use letting and labelling notation for lines and angles Draw and measure lines and angles accurately Classify angles Identify and draw parallel line and perpendicular lines Recognise types of triangle, quadrilateral and other polygons Construct triangles given SSS, SAS and ASA Draw and interpret pie charts	Mental arithmetic strategies Use known facts to derive other facts Evaluate an algebraic expression given related facts Use estimation
	Understand and use algebraic notation	Fraction, decimal and percentage equivalence	Solving problems with multiplication and division	Addition and subtraction of fractions	Developing geometric reasoning	Sets and probability
	Use single function machines and series of two function machines with numbers, bar models and letters. Use and interpret algebraic notation Understand and use inverse operations Form and substitute into expressions, including to generate sequences. Represent functions graphically Careers Lesson – Nursing	Represent tenths and hundredths on diagrams and number lines Interchange between fractions, decimals and percentages for multiples of one tenths and one quarter Interpret pie charts Equivalent fractions Convert between other fractions, decimals and percentages	Multiply by 10, 100, 1000, 0.1 and 0.01, and convert metric units Use mental and formal written methods of multiplication and division Find the HCF and LCM of small numbers Evaluate the areas of triangles, rectangles and parallelograms Find the mean of a set of numbers Find simple fractions and percentages of amounts Begin to use the order of operations	Represent tenths and hundredths on diagrams and number lines Convert mixed numbers and improper fractions Add and subtract fractions with the same denominator, one denominator a multiple of the other and different denominators Add and subtract fractions and decimals	Calculate and use angles at a point, angles on a straight line and vertically opposite angles Calculate the missing angles in triangles and quadrilaterals Careers Lesson – Architect	Understand and use set notation Draw and interpret Venn diagrams Understand and use the language of probability Calculate the probability of a single event Use the sum of probabilities of an event is 1
	Equality and equivalence Understand equality Use fact families Form and solve one-step equations Understand equivalence of algebraic expressions Collect like terms		Fractions & percentages of amounts • Work out simple fractions and percentages of amount with and without a calculator			Prime numbers and proof Recognise prime, square and triangle numbers Express a number as a product of prime factors Powers and roots Make and test conjectures Understand and use counterexamples