



Subject: Maths

Year 7 Curriculum Overview

2018-2019

<u>Half Term 1</u>	Subject Content / Knowledge	Place Value, Rounding and Estimation Calculating using the Four Operations Algebraic Expressions Area and Perimeter
	Skills	Understanding place value for Integers and Decimals Ordering Integers and Decimals Rounding Integers and Decimals Using estimation to check answers BODMAS Adding/Subtracting/Multiplying/Dividing Integers and Decimals Using Algebraic Notation Simplifying Algebraic Expressions Using powers and roots Calculating area and perimeter of 2D shapes
	Assessment	Autumn 1 Maths Assessment-Testing knowledge and skills acquired over Autumn 1
<u>Half Term 2</u>	Subject Content / Knowledge	Collecting and displaying data Ratio and Proportion Special Number Negative Number
	Skills	Representing data using tables, diagrams and graphs Coordinates Using ratio notation Simplifying a ratio Understanding and using ratio to solve problems Understanding and using proportion to solve problems

		Drawing and interpreting Venn diagrams Using factors, multiples and primes Ordering negative numbers Calculating using negative numbers
	Assessment	Autumn Maths Assessment - Testing knowledge and skills acquired over Autumn 1 and Autumn 2
<u>Half Term 3</u>	Subject Content / Knowledge	Substitution Algebraic Expressions Equations Fractions
	Skills	Substituting into expressions and formulae Multiplying and factorising into brackets Solving and Rearranging Equations Using and calculating fractions of an amount Converting between mixed numbers and improper fractions Calculating using fractions
	Assessment	Spring 1 Maths Assessment (Higher and Foundation Tiers) - Assessment testing knowledge and skills acquired over Spring 1 with synoptic content from the Autumn Term
<u>Half Term 4</u>	Subject Content / Knowledge	Sequences Averages Fractions/Decimals and Percentages Probability
	Skills	Generating, describing and continuing sequences Using and finding the nth term of a sequence Calculating and comparing averages and range Calculating with percentages Using equivalence of fractions, decimals and percentages. Converting between fractions, decimals and percentages Problem solving involving fractions, decimals and percentages Calculating probability and using vocabulary related to probability
	Assessment	Spring Maths Assessment (Higher and Foundation Tiers) – Assessment testing knowledge and skills acquired over Spring 1 and Spring 2, with some synoptic content from the Autumn Term
<u>Half Term 5</u>	Subject Content / Knowledge	2D and 3D Shape Area, Perimeter and Volume Angles Coordinates and Graphs
	Skills	Recognising and using properties of 2D and 3D shape Calculating area and perimeter of 2D Shapes Finding surface area and volume of 3D Shapes

		Estimating and measuring angles Calculating angles using the angle rules Drawing linear graphs Recognising and sketching linear and non-linear graphs Drawing and interpreting real life graphs
	Assessment	Summer 1 Maths Assessment (Higher and Foundation Tiers) - Assessment testing knowledge and skills acquired over Summer 1 with synoptic content from the Autumn and Spring Terms
<u>Half Term 6</u>	Subject Content / Knowledge	Transformations Circles Construction and Loci Revision in preparation for the end of year assessment
	Skills	Using and describing the four transformations Finding the area and circumference of circles Construction Loci
	Assessment	End of Year Maths Assessment (Higher and Foundation Tiers) – Two assessments. One Non-Calculator and one Calculator testing knowledge and skills acquired throughout Year 7.