

Module/Unit of Learning	Taught During	What will students learn?	What enriching opportunities will students engage in?	Links to other Subjects
Analysing Data	Autumn Term 1	The world of data. Students will begin learning about all the types of data, how this informs us in the best ways to represent data and how they can investigate hypotheses and draw conclusions. Students will revise work completed in year 6 on averages, discuss why each one is important and when each can be used at its best. They will discover new ways to compare and represent data with the use of frequency diagrams, stem and leaf diagrams, quartiles and box-plots	During this module students will look at real-life data either collected themselves or through a secondary source. Students will learn to develop a critical eye looking at how data can be used to manipulate.	Geography History Science CLASS
2D Shapes Area	Autumn Term 1 and 2	Throughout primary students have learnt about the core shapes and angle facts, this has been interleaved in Year 7 and 8. Students now begin to explore these shapes in further depth. Utilising their primary knowledge on area and perimeter and extending it to further complex shapes. Students learn how to find the area and circumference of a circle and sectors.	Students will explore the unique world of the circle, treading along steps of the ancients to discover Pi. Mix It Up – Pick's Theorem	Art
Algebraic Thinking	Autumn Term 2	Students have spent time in year 7 and 8 representing numerical rules in general form and manipulating algebraic expressions. This unit will continue to build on that. Students will learn to expand and factorise up to cubics.	Mix It Up – Toffee Tin Experiment	

Fractions	Autumn Term 2	This is a short revision unit in preparation for the algebraic fractions coming next. Students will review their foundation knowledge of fractions from year 8 and ensure this is fresh and ready to consider how we use these skills in an abstract context in the next unit	Shape Enrichment Day. Students begin their recap of shape work with a team challenge in form groups.	
Algebraic Fractions and Equations	Spring Term 1	Having reviewed numerical fractions students in higher tier will look at how we can apply the same knowledge to algebraic fractions. Students will use their work on factorising from Autumn Term to further simplify algebraic fractions. Foundation students will focus this time on further work on solving linear equations and will draw in linear equations with a fraction involved in the process	UKMT Maths Challenge	
Displaying Data	Spring Term 1	Students will continue their work from earlier this year on analysing data. Students will focus on methods to display data, including scatter graphs, time series, cumulative frequency graphs and frequency polygons.	During this module students will look at real-life data either collected themselves or through a secondary source. Students will learn to develop a critical eye looking at how data can be used to manipulate.	Science Geography PE CLASS
Angles and Circle Geometry	Spring Term 2	Throughout primary students have learnt core shapes and angle facts, Utilising their primary knowledge on angles and extending it to further complex shapes. Students will learn about parallel lines and higher students will visit the world of circle of theorems.		
Number Properties	Spring Term 2 and Summer Term 1	Revisiting work from year 7 on the language of number, primes, factors and multiples. Students will take their previous indices knowledge on further with irrational numbers and surd work. Students will explore the concept of working with very large or small numbers through the writing of numbers in standard form.	Construction practise with Easter Egg Tangrams	Science History

Algebraic Graphs	Summer Term 1	Students will take their learning from year 8 on linear graphs and discover that not all relationships can be represented linearly. They will explore quadratic, cubic and reciprocal relationships and how these can be visually represented in graph form. They will move on from solving equations algebraically to solving them graphically.	Mix It Up Population of the World	Science Geography
Real-Life Graphs	Summer Term 2	Student will revisit their work on compound measures from Year 8 and they will look at the graphs linked with speed, distance and time		Science PE