Year 8 Summer Term Maths Curriculum

Students in Year 8 study different content dependent upon their class. The classes will spend approximately two weeks studying each topic.

Mr Bees and Mr Ahluwalia/Mr Bullock		Mrs Joseph and Mr Bullock/Miss Robinson		Mr McClusky and Mr Storey-Scott	
Fractions and percentages	Equivalence of fractions and percentages is consolidated before students further develop their skills in finding percentages of quantities using the double number line.	Sequences	Students look at how arithmetic sequences can be described using term to term and position to term rules. Geometrical sequence patterns are also considered.	Area	Areas of increasingly complex composite shapes are looked at including those involving trapezia and parallelograms. Area of circles are also studied using earlier work on pi.
Measurements	After looking at how to read scales accurately, students look at the different metric units for length, mass and capacity. This involves estimating measuring and converting between different units.	Transformations	Students transform shapes using reflections, rotations and translations. The reverse process of describing transformations is also considered as well as combining various transformations.	Volume and surface area	The concepts of volume and surface area of 3d solids are defined. Students then apply these ideas by looking at problems involving cuboids, prisms and cylinders.
Squares, cubes, roots and order of operations	By firstly drawing pictorial sequences, students define square cube and triangular numbers. Students also learn how to find and estimate square roots before looking at how these operations can be combined.	Representations of solids	After first looking at the different properties of common solids; students look at various ways of representing them including isometric drawings, nets and plan and elevations	Pythagoras theorem	By firstly drawing pictorial sequences, students define square cube and triangular numbers. Students also learn how to find and estimate square roots before looking at how these operations can be combined.
Averages and data	Students firstly look at the different averages used to represent sets of data. They then look at how data sets can be represented using both pie charts and line graphs	Averages and measures of spread	After looking at when it is appropriate to use each of the different averages, students solve problems involving missing data and data presentenced to them in a frequency table. Range of data considered.	Grouped and bivariate data	Students firstly look at the different averages used to represent sets of data. They then look at how data sets can be represented using both pie charts and line graphs.
Review of Year 8 work and summative tests	Students review all work completed in Year 8 before completing a summative end of Year test.	Review of Year 8 work and summative tests	Students review all work completed in Year 8 before completing a summative end of Year test.	Review of Year 8 work and summative tests	Students review all work completed in Year 8 before completing a summative end of Year test.

After completing each topic students complete an assessed homework task which is recorded in the front of their yellow assessment books.

Results of tests are recorded in the back of student's yellow assessment books.