



Mathematics

Year 8

Week 1 and 2: Handling Data (8hrs)

	Level	Objectives
Interpreting Data	All	<ul style="list-style-type: none"> Process and represent data in a variety of forms including ICT
	All	<ul style="list-style-type: none"> Interpret and discuss data
	All	<ul style="list-style-type: none"> Evaluate results

Week 3 & 4: Equations and formulae (8hrs)

Linear	5	<ul style="list-style-type: none"> Formulate and solve linear equations with integer coefficients.
	6	<ul style="list-style-type: none"> Solve split variable equations.
	6	<ul style="list-style-type: none"> Solve equations by trial and improvement.
	7	<ul style="list-style-type: none"> Solve simultaneous equations using graphical methods.
	Extension	<ul style="list-style-type: none"> Use algebraic methods to solve simultaneous equations.

Week 5,6 & 8: Perimeter, area and volume (10-12hrs)

Perimeter and Area	4	<ul style="list-style-type: none"> Calculate the area of any triangle.
	5	<ul style="list-style-type: none"> Find the area and perimeter of compound shapes.
Volume and Surface Area	6	<ul style="list-style-type: none"> Find the surface area of solids from their nets.
	6	<ul style="list-style-type: none"> Find the volume of cuboids and shapes made from cuboids.
	Extension	<ul style="list-style-type: none"> Find the volume of prisms including the cylinder.
Circles	6	<ul style="list-style-type: none"> Find the circumference and area of circles.

Week 9 & 10: Averages (8hrs)

Ungrouped data	5	<ul style="list-style-type: none"> Find the mean, median and mode of ungrouped data.
	6	<ul style="list-style-type: none"> Find the mean from a frequency table.
Grouped data	6	<ul style="list-style-type: none"> Find the modal class and median of grouped data.
	7	<ul style="list-style-type: none"> Find the mean of grouped data.

Week 11&12: Project /Coursework and Maths Investigation (8hrs)

Students will be tasked to take up various Maths titles from chapters throughout the year and do ICT and practical Investigation.

Week 13 & 14: Revision and test/exam week

Week 15: Introduction to Year 9 Maths Topics. Decimal and Fraction (6hrs)

Equivalence	4	<ul style="list-style-type: none"> Reduce any fraction to its simplest form.
	5	<ul style="list-style-type: none"> Understand and use the equivalences of fractions, decimals and percentages.