

Year 8 – 2019/2020

What are we doing this year?

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Proportional Reasoning						Representations					
	Ratio and scale		Multiplicative change		Multiplying and dividing fractions		Working in the Cartesian plane			Collecting and representing data		Tables
Spring	Algebraic techniques						Developing Number					
	Brackets, equations and inequalities				Sequences	Indices	Fractions and percentages			Standard index form		Number sense
Summer	Developing Geometry						Reasoning with Data					
	Angles in parallel lines and polygons		Area of trapezia and circles		Line symmetry and reflection		The data handling cycle				Measures of location	

Autumn Term – Proportional Reasoning

Topic 1:

Topic	Small Steps
Ratio and Scale	a) Understand the meaning and representation of ratio
	b) Use and understand ratio notation
	c) Solve problems involving ration in the form 1:n or n:1
	d) Solve problem involving ratio in the form m:n
	e) Divide in a given ratio
	f) Express ratios in their simplest integer form
	g) Express ratios in the form 1:n (H)
	h) Compare ratios and fractions
	i) Understand pi as a ratio
	j) Understand gradient as a ratio (H)

Topic 2:

Multiplicative Change	a) Solve problems involving direct proportion
	b) Explore conversion graphs
	c) Convert between currencies
	d) Explore direct proportion graphs
	e) Explore relationships between similar shapes
	f) Understand scale factors as multiplicative representations
	g) Draw and interpret scale diagrams
	h) interpret maps using scale factors and ratios

Topic 3:

Multiplying and dividing fractions	a) Represent multiplication of fractions
	b) Multiply a fraction by an integer
	c) Find the product of a pair of unit fractions
	d) Find the product of a pair of any fractions
	e) Divide an integer by a fraction
	f) Understand and use the reciprocal
	g) Divide any pair of fractions

