Year 8 Half Term 2

Chapter	Emerging	Developing	Secure	Excelling
4 Fractions, decimals and percentages (Number)	Simplify equivalent fractions.	Understand, compare and order decimals.	Convert between decimals and fractions and order them.	Add and subtract mixed numbers.
	Use decimal conversions to order fractions.	Convert between decimal, fraction and percentages.	Add and subtract fractions with different denominators (change 2).	Multiply and divide fractions.
	Add and subtract fractions with same denominator.	Add and subtract fractions with different denominators (change 1).	Calculate percentages of an amount and percentage changes.	Calculate an original amount from the result of a percentage change.
	Find a fraction of a quantity.	Express one number as a fraction of another.	Compare 2 quantities using percentages, and work with percentages greater than 100%.	Solve problems involving percentage change, including: percentage increase, decrease

	Calculate percentages of an amount.	Express one number as a percentage of another.	Multiply fractions.	and original value problems and simple interest in financial mathematics.
5 Angles and 2D shapes (Geometry and measures)	Use the sum of angles at a point and on a straight line to solve problems.	Work with angles at a point and on a line.	Reason geoetrically using the properties of angles at a point and on a line and intersecting and parallel lines.	Recognise the different types of triangles and quadrilaterals and use their properties.
	Recognise vertically opposite angles.	Work with angles in a triangle.	Recognise quadrilaterals and know their properties.	Recognise the different types of polygons.
	Classify triangles and quadrilaterals.	Work with angles on parallel and intersecting lines.	Know and use some properties of polygons.	Calculate interior and exterior angles for regular polygons.
	Use the facts about angles in triangles to solve problems.	Recognise parallel and perpendicular lines.	Recognise congruent shapes.	Identify congruent shapes.
	Read and plot coordinates in all four quadrants.	Draw a straight-line graph of a function.	Plot the graph of a linear function.	Use the equation of a straight line.

6 Graphs (Algebra)	Use a table of vaues to draw a straight-line graph.	Interpret and draw real-life graphs.	Recognise the equations of sloping lines and lines parallel to the axes.	Find the gradient and y-intercept.
	Identify the equations of horizontal and vertical graphs	Create and use formulae.	Find the midpoint of a pair of coordinates.	Plot the graph of non-linear functions.
	Use real-life graphs and conversion graphs.	Construct and interpret simple line graphs for time series.	Plot and interpret time series graphs.	Plot the graph of an implicit function.