Year 8 Summer 1

Emerging (Support)	Expected (Core)	Exceeding (Extension)
Pythagoras' Theorem and Trigonometry		
• Draw right-angled triangles • Square numbers up to 10^2 • Square roots of numbers • Name the sides of right-angled triangle • Investigate Pythagoras' theorem • Calculate the longest side • Opposite, adjacent and hypotenuses • Pythagoras theorem, trigonometry and problem solving	• Name the sides of right-angled triangle • Investigate Pythagoras' theorem • Calculate the longest side • Calculate shorter side • Pythagoras' theorem and problem solving • Opposite, adjacent and hypotenuses • Trigonometry and missing angles • Trigonometry and missing angle • Pythagoras theorem, trigonometry and problem solving	• Name the sides of right-angled triangle • Investigate Pythagoras' theorem • Calculate the longest side • Calculate shorter side • Pythagoras' theorem and problem solving • Opposite, adjacent and hypotenuses • Trigonometry and missing angles • Pythagoras theorem, trigonometry and problem solving
Percentages		
• Part as a percentage of the whole • 10,%, 20%, 30% 40%, 50% of amount • 5%. 15%, 35%, 95% of amounts • Percentage of amount • Percentage increase and de-crease • Multiplier • Repeated percentages	• Part as a percentage of the whole • 5%. 15%, 35%, 95% of amounts • Percentage of amount • Percentage of amount • Percentage increase and de-crease • Multiplier • Repeated percentages • Simple and compound interest	• Part as a percentage of the whole • 5%. 15%, 35%, 95% of amounts • Percentage of amount • Percentage of amount • Percentage increase and de-crease • Multiplier • Repeated percentages • Simple and compound interest

• Percentages and problem solving	• Percentages and problem solving	• Growth and decay • Percentages and problem solving
Ratio and Proportion		
• Simplify ratio • Share quantity in a given ratio • Ratio when part is given • Ratio and proportion • Proportion and drawing • Distance, time and speed • Ratio, proportion and problem solving	• Share quantity in a given ratio • Ratio when part is given • Ratio and proportion • Exchange rate • Proportion and recipe • Conversion graphs • Distance, time and speed • Ratio, proportion and problem solving	• Share quantity in a given ratio • Ratio when part is given • Ratio and proportion • Proportion and recipe • Conversion graphs • Distance, time and speed • Volume, density and mass • Ratio, proportion and problem solving
Revision for End of year Assessment		

Year 8 Summer 2

Emerging (Support)	Expected (Core)	Exceeding (Extension)
Transformation of shapes		
• Plan and side elevation • Congruent • Reflection • Rotation • Translation • Enlargement without centre • ICT and transformation • Transformation	• Similar shape • Reflection • Rotation • Translation • Enlargement with or without centre • Fractional scale factor • ICT and transformation	• Similar shape • Reflection • Rotation • Translation • Enlargement with or without centre • Fractional scale factor • ICT and transformation
End-of-year Assessment (Last two weeks before Christmas Holiday)		
Graphs		

• Coordinates • Coordinates of midpoints • Coordinates and properties of 2D shapes • Conversion graphs • Draw graphs from table of values • ICT and graphs • Graphs and problem solving	• Coordinates of midpoints • Coordinates and properties of 2D shapes • Conversion graphs • Draw graphs from table of values • Gradient and y-intercept • ICT and graphs • Graphs and problem solving	• Coordinates and properties 2D of shapes • Conversion graphs • Draw graphs from table of values • Gradient and y-intercept • Drawing graphs from gradient and y-intercept • Real-life graphs • ICT and graphs • Quadratic graphs • Graphs and problem solving
Construction and Loci		
• Draw and measure angles • Draw triangles and quadrilaterals to scale • Making patterns using compasses, ruler and protractors • Perpendicular bisectors of line segments • Perpendicular line from a point • Construction and ICT • Construction and problem solving	• Making patterns using compasses, ruler and protractors • Perpendicular bisectors of line segments • Perpendicular line from a point • Construct triangles and other shapes • Construction and ICT • Construction and problem solving	• Perpendicular bisectors of line segments • Perpendicular line from a point • Construct triangles and other shapes • Loci • Construct and shade in a region • Construction and ICT • Construction and problem solving