TOPIC	TEXTBOOK REF.	LEARNING INTENTIONS	
27 **Algebra Formulae**	**Chapter 10**	• **Multiply out brackets, including negative terms.** • **Construct and use simple algebraic formulae.** • **Work out formula for a sequence.**	
31 **Ratio**	**Chapter 5**	• **Write a ratio.** • **Simplify a ratio.** • **Divide a quantity into a given ratio.** • **Understand and use map ratios and scales.** • **Understand direct proportion.**	
32 **Area 2**	**Chapter 7**	• **Know and use the formulae for area of a triangle and parallelogram.** • **Find the area of compound shapes.** • **Understand and use squares and square roots.**	
33 **Transformations (1)**	**Chapter 11**	• **Understand how to reflect a shape in a mirror line.** • **Translate a shape using a vector.** • **Rotate a shape through 90º, 180º, 270º about (0,0).** • **Describe transformations fully.**	
34 **Scale Drawings**	**Chapter 20**	• **Draw and use scale drawings.** • **Understand and use angles of elevation and depression.** • **Understand, use and draw 3 figure bearings.**	
35 **The Circle**	**Chapter 9**	• **Use and understand the language of a circle.** • **Calculate the circumference and area of a circle.** • **Calculate the perimeters and areas of shapes, including sectors.**	
36 **Algebra – Equations and Inequalities**	**Chapters 12 and 17**	• **Solve simple equations involving fractions.** • **Understand and use inequality symbols.** • **Solve inequalities.** • **Represent solutions on a number line.**	
37 **Enlargements**	**Chapter 19**	• **Enlarge a shape by a positive scale factor about a centre of enlargement.** • **Find the centre of enlargement given the object and image.**	
38 **Family Finance**	**Family Finance Booklet**	• **Complete percentage change, discount and compound interest calculations.** • **Complete calculations involving currency exchange.**	

39 Pythagoras' Theorem	Chapter 21	• Find the hypotenuse of a right-angled triangle. • Find the shorter side of a right-angled triangle. • Find lengths in an isosceles triangle.	
40 Straight Line Graphs	Chapter 13	• Draw straight line graphs. • Identify the equation of straight line graphs. • Find the gradient and y intercept from a straight line graph.	
41 Travel Graphs	Chapter 22	• Understand and use Speed, Distance and Time. • Interpret and draw travel graphs.	
42 Prisms	Chapter 18	• Understand the terms cross-section and prism. • Calculate the volume of a prism, including a cylinder. • Use the formula for Density, Mass and Volume.	
43 Continuous Data	Chapter 15	• Understand the meaning of continuous data and class boundaries. • Draw frequency diagrams for continuous data. • Calculate mean and median for continuous data. • Identify the modal class.	