Year 10 – Summer Revision

Topic	Text Book Ref.	Learning Intentions	Self-assessment			Extra work
29 **Fractions & Percentages**	Chapter 4	Find fractions and percentages of quantities	🙂	😐	☹️	
		Write one quantity as a fraction of another	🙂	😐	☹️	
		Change between percentages, decimals and fractions	🙂	😐	☹️	
		Perform calculations involving percentage change	🙂	😐	☹️	
31 **Ratio**	Chapter 5	Write a ratio	🙂	😐	☹️	
		Simplify a ratio	🙂	😐	☹️	
		Divide a quantity in 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 composite shapes	🙂	😐	☹️	
		Understand and use squares and square roots	🙂	😐	☹️	
33 **Trans-formations 1**	Chapter 11	Understand how to reflect a shape in a mirror line	🙂	😐	☹️	
		Translate a shape using a vector	🙂	😐	☹️	
		Rotate a shape through 90° or 180° about a point	🙂	😐	☹️	
		Describe transformations fully	🙂	😐	☹️	
34 **Scale Drawings**	Chapter 20	Draw and use scale drawings	🙂	😐	☹️	
		Understand and use angles of elevation and angles of depression	🙂	😐	☹️	
		Understand and use three figure bearings	🙂	😐	☹️	
35 **Algebra & Polynomial Equations**	Chapters 12 & 17	Solve simple equations involving fractions	🙂	😐	☹️	
		Understand and use inequality symbols	🙂	😐	☹️	
		Solve inequalities	🙂	😐	☹️	
		Represent solutions on a number line	🙂	😐	☹️	

			😊	😐	🙁	
36 **The Circle**	Chapter 9	Use and understand the language of the circle	😊	😐	🙁	
		Calculate the circumference and area of a circle	😊	😐	🙁	
		Calculate the perimeters and areas of shapes which include sectors	😊	😐	🙁	
37 **Trans-formations 2**	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**	Work-sheets	Complete percentage change, discount and compound interest calculations	😊	😐	🙁	
		Draw currency exchange graphs	😊	😐	🙁	
		Do currency exchange calculations	😊	😐	🙁	
		Understand more about 3rd world debt and aid	😊	😐	🙁	
		Understand more about personal banking	😊	😐	🙁	
39 **Pythagoras' Theorem**	Chapter 21	Discover Pythagoras' Theorem	😊	😐	🙁	
		Find the hypotenuse of a right – angled triangle	😊	😐	🙁	
		Find the shorter side of a right – angled triangle	😊	😐	🙁	
		Find lengths in an isosceles triangle	😊	😐	🙁	
		Use Pythagorean triples	😊	😐	🙁	
40 **Straight Line Graphs**	Chapter 13	Draw straight line graphs	😊	😐	🙁	
		Identify the equation of straight line graphs	😊	😐	🙁	
		Find the gradient and intercept from a straight line graph	😊	😐	🙁	
		Solve simultaneous equations graphically	😊	😐	🙁	
41 **Travel Graphs**	Chapter 22	Understand and use Speed, Distance and Time	😊	😐	🙁	
		Interpret and draw Travel Graphs	😊	😐	🙁	
42 **Volume 2 - 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 for grouped continuous data	😊	😐	🙁	
		Identify the modal class	😊	😐	🙁	

It is also expected that you will know all of your Year 8 & 9 work. As well as using your jotters and homeworks for revision, there are several green pages in the text book which provide summary exercises that can be used at the end of certain chapters. MyMaths is another very useful resource – it will provide you with worked examples and extra questions to try on each topic that you have studied this year.