

YEAR 11 Autumn 2020		Foundation			Corbett
DATES	UNIT / LESSON	PRIOR KNOWLEDGE	GRADE FROM ...	GRADE TO ...	
Begin with 4/5 weeks to recap work from last year as required, with particular emphasis on the summer term topics					
05/10/2020	week to include TEST				
	18 Fractions, indices and standard form	Know how to do the four operations with fractions. Convert between improper fractions and mixed numbers. Write powers of 10 in index form and recognise and recall powers of 10, i.e. $10^2 = 100$. Recall the index laws for multiplying and dividing positive integer powers.	3	5	
12/10/2020	18.1 Multiplying and dividing fractions	Convert between fractions, mixed numbers and improper fractions. Work out reciprocals of whole numbers, fractions, and decimals. Four operations with fractions.	3	5	Multiply and divide mixed numbers and fractions.
					142
19/10/2020	18.2 The laws of indices	Evaluate simple powers. Recall the index laws for multiplying and dividing positive integer powers.	4	5	To know and use the laws of indices.
					174
HALF TERM					
02/11/2020	18.3 Writing large numbers in standard form	Evaluate powers of 10. Write 1 million and 1 billion in figures.	5	5	Write large numbers in standard form. Convert large numbers from standard form into ordinary numbers.
					300
	18.4 Writing small numbers in standard form	Divide integers and decimals by powers of ten.	5	5	Write small numbers in standard form. Convert numbers from standard form with negative powers of ordinary numbers
					300
09/11/2020	18.5 Calculating with standard form	Use correct priority of operations. Write numbers in standard form.	5	5	To multiply and divide numbers in standard form. To add and subtract numbers in standard form.
					302, 303 301
	19 Congruence, similarity and vectors	Begin to use column vectors when dealing with translations. Recall and apply Pythagoras' Theorem on a coordinate grid. Recognise and enlarge shapes and calculate scale factors. Know how to calculate area and volume in various metric measures. Measure lines and angles and using compasses, ruler and protractor, and construct standard constructions. Know the properties of alternate, corresponding and vertically opposite angles. Identify congruent and similar shapes.	3	5	
16/11/2020	19.1 Similarity and enlargement	Understand the scale factor of an enlargement. Equivalent fractions.	3	5	Understand similarity. Use similarity to solve angle problems.
					291
	19.2 More similarity	Calculating fractions of whole numbers. Using similarity of triangles to identify equal angles and lengths of corresponding sides. Identify similar shapes.	3	5	Find the scale factor of an enlargement. Use similarity to solve problems.
					292
23/11/2020	19.3 Using similarity	Understand squares and cubes of whole numbers and decimals. Use similarity to find unknown lengths.	3	5	Understand the similarity of regular polygons. Calculate perimeters of similar shapes.
	19.4 Congruence 1	Know that the sum of the angles in a triangle must be 180° . Identify congruent shapes.	3	4	Recognise congruent shapes. Use congruence to work out unknown angles.
					66
	19.5 Congruence 2	Recognise corresponding and alternate angles. Find angles using corresponding and alternate angles. Draw triangles accurately.	3	4	Use congruence to work out unknown sides.
30/11/2020	19.6 Vectors 1	Add and subtract with negative numbers. Use column vectors.	4	5	Add and subtract vectors. Find the resultant of two vectors.
					353
07/12/2020	19.7 Vectors 2	Calculate with negative numbers. Find the resultant of two vectors.	4	5	Subtract vectors. Find multiples of a vector.
	20 More algebra	Draw linear graphs. Plot coordinates and sketch simple functions with a table of values. Substitute into and solve equations. Have experience of using formulae. Recall and use the priority of operations and use of inequality symbols.	2	5	
14/12/2020	20.1 Graphs of cubic and reciprocal functions	Recognise the shape of linear and quadratic graphs. Find reciprocals of fractions and integers.	5	5	Draw and interpret graphs of cubic functions. Draw and interpret graphs of $y = 1/x$.
					344 346