YEAR 11	Spring 2022				Foundation	
DATES	UNIT / LESSON	PRIOR KNOWLEDGE	GRADE FROM …	GRADE TO …	OBJECTIVES	Corbett
	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		
3-Jan	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
10-Jan	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 congrent 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.	
17-Jan	REVISION	Ratio				269-271
24-Jan	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
31-Jan	19.7 Vectors 2	Calculate with negative numbers. Find the resultant of two vectors.	4	5	Subtract vectors. Find multiples of a vector.	
7-Feb	REVISION	Probability				244-254
	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-Feb	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