

EXTENSION LEARNING OUTCOMES IN BOLD						
	TERM	UNIT / LESSON	STEPS (GRADES) FROM ...	STEPS (GRADES) FROM ...	LEARNING OUTCOME	
	SPRING	12 Similarity and congruence	6th (grade 3)	12th (grade 9)		
15	01/01/2018	12.1 Congruence	6th (grade 3)	10th (grade 7)	Show that two triangles are congruent.	
16	08/01/2018				Know the conditions of congruence.	
17	15/01/2018	12.2 Geometric proof and congruence	12th (grade 9)	12th (grade 9)	Prove shapes are congruent. (EXTN)	
		12.3 Similarity 12.4 More similarity 12.5 Similarity in 3D solids UNIT 12 TEST	5th (grade 3)	9th (grade 6)	Use the ratio of corresponding sides to work out scale factors. Find missing lengths on similar shapes.	
			9th (grade 6)	11th (grade 8)	Use similar triangles to work out lengths in real life. Use the link between linear scale factor and area scale factor to solve problems.	
			9th (grade 6)	12th (grade 9)	Use the link between scale factors for length, area and volume to solve problems.	
	SPRING		13 More trigonometry	9th (grade 6)	12th (grade 9)	
18	22/01/2018		13.1 Accuracy	10th (grade 7)	11th (grade 8)	Understand and use upper and lower bounds in calculations involving trigonometry. (EXTN)
19	29/01/2018	13.2 Graph of the sine function	10th (grade 7)	12th (grade 9)	Understand how to find the sine of any angle.	
20	05/02/2018				Know the graph of the sine function and use it to solve equations. (EXTN)	
		13.3 Graph of the cosine function 13.4 The tangent function 13.5 Calculating areas and the sine rule 13.6 The cosine rule and 2D trigonometric problems 13.7 Solving problems in 3D 13.8 Transforming trigonometric graphs 1 13.9 Transforming trigonometric graphs 2 UNIT 13 TEST	10th (grade 7)	12th (grade 9)	Understand how to find the cosine of any angle. Know the graph of the cosine function and use it to solve equations. (EXTN)	
			10th (grade 7)	12th (grade 9)	Understand how to find the tangent of any angle. Know the graph of the tangent function and use it to solve equations. (EXTN)	
			9th (grade 6)	12th (grade 9)	Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems.	
			10th (grade 7)	12th (grade 9)	Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry.	
			12th (grade 9)	12th (grade 9)	Use Pythagoras' theorem in 3D. (EXTN) Use trigonometry in 3D. (EXTN)	
			12th (grade 9)	12th (grade 9)	Recognise how changes in a function affect trigonometric graphs. (EXTN)	
			12th (grade 9)	12th (grade 9)	Recognise how changes in a function affect trigonometric graphs. (EXTN)	

	12/02/2018	HALF TERM			
	SPRING	14 Further statistics	6th (grade 3)	12th (grade 9)	
21	19/02/2018	14.1 Sampling	6th (grade 3)	10th (grade 7)	Understand how to take a simple random sample.
22	26/02/2018				Understand how to take a stratified sample.
23	05/03/2018	14.2 Cumulative frequency	9th (grade 6)	9th (grade 6)	Draw and interpret cumulative frequency tables and diagrams. Work out the median, quartiles and interquartile range from a cumulative frequency diagram.
		14.3 Box plots	9th (grade 6)	9th (grade 6)	Find the quartiles and the interquartile range from stem-and-leaf diagrams. Draw and interpret box plots.
		14.4 Drawing histograms	10th (grade 7)	11th (grade 8)	Understand frequency density. Draw histograms.
		14.5 Interpreting histograms	11th (grade 8)	12th (grade 9)	Interpret histograms. (EXTN)
		14.6 Comparing and describing populations	9th (grade 6)	10th (grade 7)	Compare two sets of data.
		UNIT 14 TEST			
24	12/03/2018	REVISION & TEST	OFFICIAL COMBINED UNIT TESTS: 12, 13 & 14		
25	19/03/2018	INVESTIGATION: MAYFIELD HIGH			
26	26/03/2018	INVESTIGATION: MAYFIELD HIGH			