IMMACULATE CONCEPTION HIGH SCHOOL DEPARTMENT OF MATHEMATICS CHRISTMAS TERM PLAN:- September 4, 2023 to December 19, 2023 (15 weeks)								
NAMES OF TEACHERS: Ms Thompson, Ms Mossop, Ms. Parker, Ms Pryce, Ms Dudley								
GRADE: 10			TERM WEIGHTING: Test – 60% Coursework - 40%	Assessments: 2 Six Weekly Tests 4 Course work: Graded Homework, Online Quiz/Test, Class Quiz , Project				
TERM : I		1						
WEEK	PERIOD	TOPICS	OBJECTIVE : Students should be able to: ASSESSMEN		ASSESSMENT			
1	Sept 4 - 8	ORIENTATION AND DIAGNOSTIC TESTS						
2-4	Sept 11 – 29 (3 weeks)	Statistics II (review Statistics I first) Trigonometry I	 Determine measures of cen Draw a histogram and a fre Construct a group frequenc Given class size, determine given set of grouped data Draw histogram and freque Determine the modal class Use the mid-point of the cla frequency table 	quency polygon of data represented in a simple frequency table]				
5-6	Oct 2 - 13 (2 weeks)		world: - Heights and dis - Angles of elevat - Bearings	tances	Course Work			

7	Oct 16 - 18	MID TERM			
7	Oct 19 - 20	Trigonometry I (Cont'd)	 Use simple trigonometric ratios to solve problems based on problems in the physical world: Heights and distances Angles of elevation and depression Bearings Apply the sine and cosine rules to non-right-angled triangles 		
8	Oct 23 - 27	SIX WEEKLY TEST			
9-10	Oct 30 – Nov 10 (2 weeks)	Coordinate Geometry (Equations of Straight Lines)	 Recognize a linear equation connecting two variables Plot a straight-line graph of a given equation, Calculate the gradient of a straight line from its graph or given two points on the line. Recognize the equation and know the gradient for horizontal and vertical lines. Find the y-intercept for any straight line from its graph Recognize the equation of a straight line in the form y=mx+c, and use this to state the gradient and the y-intercept for any straight line Determine the equation of the line given : Graph of a line The coordinates of two points The gradient and a points Calculate midpoint of a line Use distance formula when given two points to calculate to find the distance between them Identify parallel and perpendicular lines and write their equations. 		
11-12	Nov 13 - 24 (2 weeks)	Construction (with ruler & compasses only!) .	 Construct angles 90° and 60° Bisect angle; Then use this concept to construct other angles e.g. 15°, 30°, 45°, 75°, 105°, 135° etc. Construct a perpendicular bisector to a line. Construct a perpendicular line to another line from : Any point on the line segment A point outside of the line segment Construct circumcircle & inscribe circle Construct parallel lines Construct quadrilaterals and triangles 		

13	Nov 27 – Dec 1	Algebraic Operations	 Add, subtract, divide and multiply like terms, Expressions and algebraic fractions Expand (a + b) and (a-b) Solve worded problems involving sum and differences of squares. 	Coursework	
14	Dec 4 - 8		SIX WEEKLY TEST		
15	Dec 11 - 15	Algebraic Operations <u>(Cont'</u> d)	 Add, subtract, divide and multiply like terms, Expressions and algebraic fractions Expand (a + b) and (a-b) Solve worded problems involving sum and differences of squares. 		