

**IMMACULATE CONCEPTION HIGH SCHOOL DEPARTMENT OF MATHEMATICS
CHRISTMAS TERM PLAN: September 4, 2023- December 19, 2023**

NAMES OF TEACHERS: Ms Pryce, Ms Parker, Ms Bogle, Ms Dudley, Mrs Lynch, Mr McCalla

GRADE: 9			TERM WEIGHTING: Test – 60% Coursework - 40%	Assessments: 2 Six Weekly Tests 6 Course work: Graded Homework, Online Quiz/Test, Class Quiz
TERM : I				
WEEK	PERIOD	TOPICS	OBJECTIVE : Students should be able to:	ASSESSMENT
	Sept 4-8	Orientation Week	Introduction Review of grade 8 exam	

1-2	Sep 11 – 22	Consumer Arithmetic II	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. Solve problems involving <ul style="list-style-type: none"> · Rates · Utility Bills: Light, Water, telephone · Invoices and shopping bills 	Course Work
3	Sept 25 – 29	Ratio and Proportion	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. Review ratio (simplifying, sharing, calculating missing quantity) 2. Use map ratio to calculate the actual distance between two places given their distance apart on a map 3. Solve problems involving direct or indirect proportion 	Course Work
4-5	Oct 2-13	Relations/ Mappings and Graphs	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. Recognize a relation 2. Describe a relation as a set of ordered pairs 3. Use an arrow diagram to show a relation. 4. Use Cartesian graphs to show a relation. 5. Identify relations which are mapping/ functions. 6. Define a mapping(function) as many to one or one to one relation 7. Construct table for given relations example $x \rightarrow x^2 + 4$ 	

6	Oct 13-17	MID TERM		
7	Oct 23-27	SIX WEEKLY TEST		
8-9	Oct 30- Nov 3, Nov 6-10	Construction Angles and Triangles	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. Construct with compasses only 60°, 30°, 45°, 90°, 120° etc 2. Construct the perpendicular bisector of a given line 3. Construct triangles with compasses and without the aid of a protractor when: <ul style="list-style-type: none"> · The measurements of three sides are given · The measurements of one side and two angles are given · The measurements of two sides and an angle are given 	
10-11	Nov 13 – 24	Transformation	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. a) Define a translation b) Translate a point/ figure using coordinates c) State the relationship between figure and image d) Identify coordinates of image e) Identify translation vector given a figure and its image 	Course Work

		Transformation	<ul style="list-style-type: none"> ii) <ul style="list-style-type: none"> a) Define reflection b) Reflect shape in given lines e.g. x-axis, $x = 2$ etc c) State the relationship between figure and image d) Identify lines of reflection figure and its image iii) <ul style="list-style-type: none"> a) Define a glide reflection b) Carry out and locate the image of a point/ figure under a glide reflection c) State the relationship between figure and image d) Find the glide axis given the figure and its image <p>2. Identify each transformation given figure and image</p>	Course Work
12	Nov 27 – Dec 1	Probability	<p>Students should be able to:</p> <ol style="list-style-type: none"> 1. Give reasons for probability theory 2. Use diagrams to represent the outcome of ideal experiments. 3. Determine the experimental and theoretical probability simple events. 4. State the formula for the probability of a successful event. 5. Identify absolutely impossible and absolutely certain events and their probability. 6. Give probability of events with or without replacement. 	

13	Dec 4-8	SIX WEEKLY TEST		
14	Dec 11 - 15	Probability	Students should be able to: 7. Determine the probability of independent, mutually exclusive and dependent outcomes.	