Gymea Technology High School
INSPIRE. LEARN. SUCCEED.

Year 9, Mathematics

Half Yearly Quiz

Due Date: Friday 5 June, Week 6 Period 1

Date Distributed: 26/5/2020 **Task Weighting: 30%**

Outcomes

- MA5.2-1WM Selects appropriate notations and conventions to communicate mathematical ideas and solutions
- MA5.1-2WM Selects and uses appropriate strategies to solve problems
- MA5.2-3WM Constructs arguments to prove and justify results
- MA5.2-6NA Simplifies algebraic fractions, and expands and factorises quadratic expressions
- MA5.2-8NA Solves linear and simple quadratic equations
- MA5.3-5NA Selects and applies appropriate algebraic techniques to operate with algebraic expressions
- MA5.1-6NA Determines the midpoint, gradient and length of an interval, and graphs linear relationships
- MA5.1-4NA Solves financial problems involving earning and spending money
- MA5.2-11MG calculates the surface areas of right prisms, cylinders and related composite solids
- MA5.2-12MG applies formulas to calculate the volumes of composite solids composed of right prisms and cylinders

ASSESSMENT OUTLINE

1. WHAT AREAS OF LEARNING DOES THIS ASSESSMENT ADDRESS?

ALGEBRA AND EQUATIONS	FINANCIAL MATHS
• Simplifying, Expanding and Factorising algebraic expressions. • Simplifying Algebraic Fractions. • Solving one, two and three step equations. • Solving equations with expansions. • Solving simple quadratic equations. • Substitutions into formulae and solving equations arising from substitutions.	• Solve problems involving earning money using a range of earning methods • Comparing different earning scenarios. • Calculate the annual leave loading
	LINEAR RELATIONSHIPS
	• Determine the gradient and y-intercept of a line • Find the equation of a line on a Cartesian plane
SURFACE AREA AND VOLUME	**TRIGONOMETRY**
• Find the volume of right prisms • Find the surface area of a square, rectangle, triangular prisms • Calculate volume and surface area of cylinders	• Calculate unknown side lengths using Pythagoras' Theorem • Identify trigonometric ratios in right-angled triangles

2. WHY IS THE COMPLETION OF THIS ASSESSMENT IMPORTANT?

This task will draw together the above outcomes providing you with the opportunity to demonstrate your knowledge, understanding and skills in these topics. This task will allow you to gain immediate feedback on areas of strength and where you can improve in the future. The marks achieved in this exam will go towards your Semester 1 report.

3. WHAT STEPS DO I TAKE TO COMPLETE THIS TASK?

Task Outline

This task is a timed Moodle Quiz that will be completed under examination conditions in your classroom during your normal timetabled class on the date listed above.

The quiz will consist of 2 sections:

- **Section 1:** 10 multiple choice questions, worth 1 mark each. Questions will cover a range of the content listed in the Areas of Learning above.

- **Section 2:** A number of short numerical answer style questions, worth 1 mark each. These questions will require you to type in a number (with no units or symbols attached) into a box. You may need working out paper to solve these questions.

As this is an examination you will need to prepare for this task by:

- Seeking teacher assistance on unclear work.
- Ensuring all set work is up to date, including the remote package work.
- Attempting My Numeracy questions on these topic areas through Essential Assessment

Details for Submission

You will use your own personal devices to complete the Moodle Quiz located in your Mathematics Moodle Course in the Assessment Tasks Folder. You will need to use your DoE login to access your Mathematics Moodle course.

4. HOW WILL MARKS BE AWARDED TO MEASURE MY LEARNING?

The quiz will self-mark and provide you immediate feedback. Marks and completion of tasks will be recorded in a Markbook.