



Task Number	1	Task Name	Classwork portfolio
Course	Year 11 Mathematics Standard	Faculty	Mathematics
Teacher	Mr Prince, Mr Scarrabelotti, Mr Smith, Ms Tyson, Mrs Kelso, Mr Hurley	Head Teacher	Mr Scarrabelotti, Mrs Kelso
Issue date	11/02/2019	Due date	26 February 2019 Tuesday week 5, period 5
Focus (Topic)	Algebra	Task Weighting	30%

Outcomes

- MS11-1** uses algebraic and graphical techniques to compare alternative solutions to contextual problems
- MS11-6** makes predictions about everyday situations based on simple mathematical models
- MS11-9** uses appropriate technology to investigate, organise and interpret information in a range of contexts
- MS11-10** justifies a response to a given problem using appropriate mathematical terminology and/or calculations

Task description

TASK DESCRIPTION:

Classwork portfolio including in class quiz.

This task requires students to

- To submit a portfolio of work that includes handwritten theory notes with examples, practice questions completed from the CHAPTER 2 ALGEBRA and completed past HSC questions. **This portfolio is a collection of documents *SEPARATE TO* the student's usual class workbook. A *separate exercise book, folder or loose leaf paper should be used.***
- Complete an open book in class quiz for the topic **Algebra** in which your class workbook can be used.

A copy of the assessment task can be found on Google classroom. Please see your classroom teacher for the Google classroom code.

ASSESSMENT CRITERIA:

Students will be assessed on their ability to:

- use algebraic techniques to compare alternative solutions to contextual problems
- make predictions about everyday situations based on simple mathematical models
- justify a response to a given problem using appropriate mathematical terminology and/or calculations.
- communicate mathematics in a variety of written forms using mathematical conventions.

Students will be required to submit the following elements in this task:

Portfolio

1. Theory

This will consist of the worked examples 1-16 from chapter 2 of the textbook.

2. Practice Questions

Present practice questions as indicated in the marking criteria

3. Past Algebra HSC Questions

Completed with necessary working to the value of 10 marks in total. Each question should state clearly the year and question number. Students can find these questions on the NESAs website.

Quiz

4. An open book in class quiz on Algebra

This will be undertaken in a timetabled lesson (1 period) on Tuesday during Week 5 Term 1.
Students may bring their class workbook into the quiz.

- **Parts 1, 2 and 3 are to be submitted in a separate workbook or folder, not the student's usual class workbook.**
- **Part 4 will be completed in class**

Note:

- *What if a student is absent from a lesson?*
 - *It is the student's responsibility to catch up on any missed work due to absences*
- *Solutions to questions must be in the student's own hand writing, **NO photocopied solutions will be accepted.***
- *All work submitted must be the student's independent work as demonstrated in the "All my own work" modules*

Marking Guidelines

Name:.....

2019 Preliminary Standard Mathematics Classwork Portfolio and Quiz Assessment Rubric

Marks will be allocated marks as outlined below:

- Theory** n
- ote: marks may be deducted for messy and/or disorganised work*

Example	Not completed	Partially completed	Fully completed
1	0	1	2
2	0	1	2
3	0	1	2
4	0	1	2
5	0	1	2
6	0	1	2
7	0	1	2
8	0	1	2
9	0	1	2
10	0	1	2
11	0	1	2
12	0	1	2
13	0	1	2
14	0	1	2
15	0	1	2
16	0	1	2
			Total: /32

3. Questions attempted

Simplifying algebraic expressions

	Not completed	Partially completed	Fully completed
Addition	0	1	2
Subtraction	0	1	2
Multiplication	0	1	2
Division	0	1	2

Expanding

	Not completed	Partially completed	Fully completed
Expanding an expression	0	1	2
Expanding and simplifying an expression	0	1	2
Expanding by a negative number	0	1	2

Formulas

	Not completed	Partially completed	Fully completed
Simple substitution	0	1	2
Temperature conversion question from Fahrenheit to Celsius	0	1	2

Distance, speed, time question	0	1	2
A Compound Interest or Future Value question	0	1	2
Clarks Rule	0	1	2

Solving Equations

	Not completed	Partially completed	Fully completed
Two-step equation	0	1	2
Equation involving an expansion	0	1	2

Formulas and Equations

	Not completed	Partially completed	Fully completed
Written problems solved by equations 1	0	1	2
Written problems solved by equations 2	0	1	2

Changing the subject

	Not completed	Partially completed	Fully completed
Make x the subject of a formula	0	1	2
Angle sum problem	0	1	2
Frieds formula or BMI	0	1	2

Total: /38

4. Past HSC Questions

mark	description
/10	One mark given per past HSC question

5. Open Book Class quiz result: *marks allocated per question on quiz*

Final mark:	Portfolio / 80	Quiz /20	Total / 100
--------------------	--------------------------	--------------------	-----------------------

Comment:

