

Assessment Notification

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| Course | Year 8 Mathematics |
| Task | Task 2- Half Yearly |
| Date and time | Term 2, Week 5, as per exam timetable |
| Time allowed | 60 minutes (3 minutes reading time) |
| Weighting | 25% |
| Nature of task | Calculators are allowed. Formula sheet provided |
| Topics and outcomes | MA4-8NA, MA4-10NA, MA4-17MG, MA4-7NA |



Topics content and text references Year 8 Maths Quest Chapters 5,7,10 . Reminder there is no Geometry chapter.

ALGEBRA (Developmental Maths Book 2 Chapter 6)

Students can be asked to:

- Simplify algebraic expressions involving the 4 operations
- Expand algebraic expressions - with both positive and negative expansions
- Expand and simplify algebraic expressions
- Substitute into algebraic expressions involving 1 or 2 variables
- Factorising algebraic expressions using the HCF method
- Determine an algebraic expression e.g. determine an algebraic expression for 2 more than x

EQUATIONS (Developmental Maths Book 2 Chapter 15)

Students can be asked to

- Solve linear equations
 - 1 step and 2 step equations e.g. $x + 17 = 67$, $4x + 12 = 24$,
 - pronumerals on both sides of an equation e.g. $4x + 8 = 2x + 3$
 - Expanding brackets required e.g. $4(x + 5) = 44$, $5(x - 3) = 4(x + 3)$

GEOMETRY (Developmental Maths Book 2 Chapters 7 and 8))

Students can be asked to

- Determine the size of an angle with questions involving; vertically opposite, straight angles, triangles, angles in a revolution
- Determine the size of angles in parallel line diagrams using alternate, corresponding and co-interior angles.
- Determine the size of angles using geometric reasoning for questions involving all the angles mentioned previously

RATIO AND RATES (Developmental Maths Book 2 Chapter 16)

Students can be asked to

- Shade a diagram to represent a ratio
- Simplify ratios involving whole numbers
- Simplify ratios involving fractions and decimals
- Simplify ratios involving the same units e.g. $6m : 8m$
- Simplify ratios involving different units e.g. $4m : 60 cm$
- Divide quantities in a given ratio
- Use the unitary method to solve problems e.g. 6 apples cost \$2.40, find the cost of 5 apples
- Solve ratio problems involving real life situations
- Using rates to solving problems
- Convert between rates e.g. Convert $4 m/s$ to m/min and more complex questions
- Determine the average speed of a journey, petrol consumption rate for a journey

Consider the suggestions below when preparing in the lead up to a task (within 2 or 3 weeks of the task):

- Complete any unfinished study notes with key concepts for each content area
- Do not spend a lot of time rewriting your theory book or textbook, pick out essential content, it can be set out as a mind map (see samples on following pages).
- Worked examples could be documented, but again do not spend hours rewriting examples and not get to testing your understanding.
- Use flash cards (preferably already written) or other techniques to memorise key ideas or processes relevant to your understanding of concepts.
- Analyse the content listed in this notification and prioritise what you find most challenging and target these concepts first.
- Keep a diary of what revision you do each day. Use this to reflect and plan what to do next – time is limited so planning is required to make best use of it.
- Complete practice questions, including a sample/past paper and revision material, where possible in exam conditions. If you will have a formula sheet for the assessment be aware of what is on it.
- If using a textbook for practice do not attempt lots of questions from the same exercise, repeating the same skill over and over. Select 3 or 4 exercises to work on and switch between them every few questions.
- Reflect on all practice questions completed.

This can be done whilst doing the questions – highlight those you could not start one colour and ones you found challenging or were not certain what process to use another colour.

Or, after marking your work analyse errors and categorise them as either:

- 1) Mistakes you recognise to learn from
 - 2) Sort of get it how to approach it but may need to review theory/examples or get some help
 - 3) Don't understand the concept or specific question and need to seek assistance
- From your reflection seek assistance where required to clarify understanding of a concept or in answering a specific question. Book a time with your teacher or use the maths help sessions.
 - Practice similar questions to retest your understanding.

Further details:

- Ensure you bring all your equipment to the assessment task – pen, pencil, eraser, ruler, calculator.
- If you are not going to be at school for the assessment then please ensure the appropriate paperwork has been completed.