Assessment Notification

Course	Year 11 Mathematics General
Task	Task 1
Date and time	Thursday 17th November, Week 6, Term 4
Time allowed	55 minutes (5 minutes reading time)
Weighting	10%
Nature of task	Written examination style task, BOSTES approved calculators allowed, BOSTES reference sheet will be provided.
Topics and outcomes	Mathematics and communication **FSCo** Algebraic skills and techniques **AM3** Modelling linear relationships **AM4**
Course texts	Cambridge Preliminary Mathematics General – Chapter 13 Cambridge HSC Mathematics General – Chapters 3 & 9
Outcomes assessed	MG2H-3, MG2H-9, MG2H-10

Topics, content and text references

Mathematics and Communication (Cambridge Preliminary Mathematics General – Chapter 13)
Students can be asked to:

- Read and interpret mobile phone plans and bills
- Calculate the cost of calls using different durations
- Determine suitable phone plans using phone usage
- Construct and interpret tables and graphs of phone usage
- Use prefixes to describe the size of units of storage
- Convert units of file storage
- Calculate the time to download a file in accordance to the download speed
- Interpret statistics related to the effect of downloading files

Algebraic skills and techniques (Cambridge HSC Mathematics General – Chapter 3)
Students can be asked to:

- Add and subtract like terms and algebraic fractions
- Establish and apply index laws in algebraic form
- Multiply and divide algebraic terms
- Change the subject of a formula involving linear and quadratic terms
- Solve equations after substituting values
- Solve linear simultaneous equations

Modelling linear relationships AM4 (Cambridge HSC Mathematics General – Chapter 9)
Students can be asked to:

- Graph linear functions
- Develop graphs of linear equations in the form y = mx
- Interpret linear functions as models of physical phenomena
- Develop linear equations from descriptions of situations
- Interpret the point of intersection when two linear functions are graphed
- Apply break-even analysis to simple business problems

Preparation

- Write summary notes of the topics listed above
- Study the outcomes listed above using the text references and other resources provided
- Bring your calculator and writing equipment to the assessment