Stage 1 General Mathematics

Assessment Overview

The table below provides details of the planned tasks and shows where students have the opportunity to provide evidence for each of the specific features of both assessment design criteria.

| Assessment Type and Weighting | Name and details of assessment | Assessment conditions (e.g. task type, page limit, time allocated, supervision) |
| --- | --- | --- |
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| Skills and Applications Tasks  Weighting 65% | Students demonstrate mathematical knowledge and skills from **Topic One: Investing and Borrowing**. The content covers key questions and key concepts within subtopics 1.1 and 1.2. Students apply their knowledge and skills to a range of routine and complex questions.  The complex questions require students to apply the key concepts to solve problems in a variety of contexts and some require interpretation of the results.  Appropriate and effective use of electronic technology is expected. Clear and logical communication of solutions and correct use of notation and terminology are required. | Supervised written assessment.  One A4 page of handwritten notes permitted.  Total time: 50 minutes |
| Key questions and key concepts from **Topic Two: Measurement** is the focus of a range of routine and complex questions in SAT 2. Students demonstrate mathematical knowledge and skills of key questions and key concepts from measurement subtopics 2.1, 2.2, 2.3 and part of 2.4 (scales). Students apply their knowledge and skills to a range of routine and complex questions in a variety of contexts. Most questions require the aid of electronic technology. Correct use of notation and terminology are required. | Supervised written assessment.  Students will be provided with formulae for perimeter, area and volume and surface area.  Total time: 50 minutes |
| **Topic Three: Statistical Investigation.**  Mathematical knowledge and skills based upon the key questions and key concepts from all subtopics are assessed. The assessment includes both routine and complex problems, some requiring interpretation and comparison of two or more sets of data.  Appropriate and effective use of electronic technology is expected. Clear and logical communication of solutions and correct use of notation and terminology are required. | Supervised written assessment.  One A4 page of handwritten notes permitted.  Total time: 50 minutes |
| Mathematical Investigation  Weighting 35% | In this task students are required to design one piece for an outdoor chess set using a combination of mathematical solids. They will then cost the construction of their design including casting in lightweight concrete and coating in a decorative paint. Scope for complexity is provided by the choice of piece to model and the mathematical solids used. Students are required to consider the reasonableness of their results by examining the underlying assumptions of their mathematical model. | 3 weeks to complete. Some class time is allowed to support verification.  **Maximum of 8 A4 pages.**  Appropriate investigation report format as described in the General Mathematics subject outline. |