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**NUMBER**  
**Investigate and report on the  
mathematics of a given project**

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<b>level:</b>	<b>2</b>
<b>credit:</b>	<b>3</b>
<b>planned review date:</b>	June 2008
<b>sub-field:</b>	Mathematics
<b>purpose:</b>	People credited with this unit standard are able to investigate and report on the mathematics of a given project.
<b>entry information:</b>	Open.
<b>accreditation option:</b>	Evaluation of documentation by NZQA.
<b>moderation option:</b>	A centrally established and directed national moderation system has been set up by NZQA.
<b>special notes:</b>	<p>1 Learning Programme This unit standard can be used to assess outcomes of a learning programme based on achievement objectives from <i>Mathematics in the New Zealand Curriculum</i>, Ministry of Education, (Wellington: Learning Media, 1992), Level 7, including Mathematical Processes, pages 23 to 29, or from <i>Tauaki Marautanga Pāngarau</i>, Ministry of Education, (Wellington: Learning Media, 1994), Taumata 7.</p> <p>The skills of this unit standard are some of those that could satisfy requirements for Unit 5233, <i>Use mathematical processes and skills in a variety of contexts</i>.</p>

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- 2    Assessment Notes  
Assessment tasks for this unit standard will involve Number and Measurement of a level consistent with level 7 of *Mathematics in the New Zealand Curriculum*. Tasks which could satisfy the requirements include activities such as: costing alternative travel and accommodation arrangements for a journey; the complete costing for redecorating a room with alternatives considered; quantity surveying for a project such as building a garage; using spreadsheets to investigate investment options; financial planning for a small business.

Calculators and/or computers may be used in achievement of credit for this unit standard.

### **Elements and Performance Criteria**

#### **element 1**

Investigate and report on the mathematics of a given project.

#### **performance criteria**

- 1.1        Investigation and results are appropriate to the project.
- 1.2        Investigation includes the consideration of alternatives.
- 1.3        Presentation of results gives reasons for choices with reference to the appropriate mathematics.

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#### **Comments on this unit standard**

Please contact the NZQA National Qualifications Services [nqs@nzqa.govt.nz](mailto:nqs@nzqa.govt.nz) if you wish to suggest changes to the content of this unit standard.

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**Please Note**

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0226 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.