

Achievement Standard

Subject Reference Graphics 1.2

Title Construct and use geometrical shapes and solids to communicate design ideas

Level 1 **Credits** 2 **Assessment** External

Subfield Design

Domain Design - Graphic Communication

Status Expiring **Status date** 20 January 2011

This achievement standard is expiring. Assessment against the standard must take place before the expiry date set out below.

Expiry date 31 December 2010 **Date version published** 20 January 2011

This achievement standard involves construction and use of both regular geometrical shapes, and the solids derived from these shapes, to communicate design ideas.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Construct and use geometrical shapes and solids to communicate design ideas. 	<ul style="list-style-type: none"> Accurately construct and use geometrical shapes and solids to communicate design ideas. 	<ul style="list-style-type: none"> Accurately construct, and use geometrical shapes and solids to clearly communicate design ideas.

Explanatory Notes

- This achievement standard is related to *Graphics Education: Guidelines for Years 9–13*, Learning Media, Ministry of Education, 2001.
- Geometrical shapes* include regular polygons, circles, ellipses, parabola and shapes derived from tangent curves.
- Geometrical solids* refer to right prisms and pyramids (with up to an eight-sided base), cones, cylinders, and truncated solids (restricted to inclined plane only).
- The use of geometric shapes will be assessed in context, eg an elliptical label may need to be constructed and drawn for a given bottle.

- 5 *Construct* implies production of drawings using a recognised geometric method and instruments.
 - 6 The student will require knowledge of only one construction method for each geometric shape.
 - 7 It is envisaged that geometric solids will generally be used in the production of surface developments (nets) for packaging. It will be expected that any required true length lines or true shapes will be constructed.
 - 8 It is recommended that candidates provide evidence within the context of a given design brief.
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Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0226