Technology Studies (2007)
Advice for teachers

Highlighted standards
September 2010
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Highlighted standards

Compiled by the Queensland Studies Authority

September 2010

About this advice

This advice is intended to help teachers implement the syllabus in their school setting. The tables highlight:

- different aspects in the standards
- how these aspects vary from E through to A across the different standards.

Key: Qualitative differences across the standards

Cognitive processes demonstrated in the response
# Technology Studies (2007)

<table>
<thead>
<tr>
<th>Knowledge and application</th>
<th>Standard A</th>
<th>Standard B</th>
<th>Standard C</th>
<th>Standard D</th>
<th>Standard E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The student work has the following characteristics:</td>
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<td></td>
<td>- accurate and consistent recall of a substantial breadth and depth of knowledge about the three areas of study</td>
<td>- accurate recall of a breadth and depth of knowledge about the three areas of study</td>
<td>- accurate recall of knowledge about the three areas of study</td>
<td>- recall of facts, terms and techniques related to the areas of study</td>
<td>- recall of basic facts and techniques related to the areas of study</td>
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<td>- effective and discriminatory application of knowledge to the planning, development and production of products</td>
<td>- effective application of knowledge to the planning, development and production of products</td>
<td>- application of knowledge to the planning, development and production of products</td>
<td>- use of knowledge in aspects of planning, development and production of products</td>
<td>- use of knowledge in the production of products</td>
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<td></td>
<td>- thorough and perceptive investigation of the foundations of technology, safety standards and manufacturing resources used in product design.</td>
<td>- methodical investigation of the foundations of technology, safety standards and manufacturing resources used in product design.</td>
<td>- identification and consideration of aspects of the design process, safety standards and manufacturing resources used in product design.</td>
<td>- identification of aspects of the design process, safety standards and manufacturing resources used in product design.</td>
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</tbody>
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Queensland Studies Authority  Revised: September 2010  | 3
### Reasoning processes

The student work has the following characteristics:
- Extensive and comprehensive analysis of contexts, design situations and products, effectively relating critical elements to the planning, development and production of products.
- Creation of innovative and sustainable design solutions that effectively satisfy design briefs.
- Critical reflection evident in all stages of the design process to verify the validity, accuracy and suitability of decisions.
- Thorough evaluation of contexts, design solutions and products, and effective communication of valid judgments and well-justified recommendations.

### Production

The student work has the following characteristics:
- Development, construction, assembly and finish of products that are skilfully crafted, precision-engineered and an accurate response to design briefs.
- Effective and efficient production management within agreed timeframes.
- Well-considered selection and proficient use of manufacturing resources in a safe manner with application of sustainable practices.
- Development, construction and assembly of products that are crafted with minor variation in precision and finish and are an accurate response to design briefs.
- Efficient production management within agreed timeframes.
- Correct selection and efficient use of manufacturing resources in a safe manner with some application of sustainable practices.

The student work has the following characteristics:
- Consideration of aspects relating to the production of products.
- Generation of design solutions that satisfy aspects of design briefs.
- Obvious choices are made about contexts and stages of the design process.
- Effective and efficient production management within agreed timeframes.
- Selection and use of manufacturing resources in a safe manner with regard to sustainable practices.
- Construction of parts of products in response to design briefs.
- Use of some aspects of production.
- Use of manufacturing resources with reasonable safety.