



Assessment task	
Year level	7
Learning area	Technologies
Subject	Design and Technologies
Title of task	Processes and production skills
Task guidelines	
Description of task	<p>Students will:</p> <ol style="list-style-type: none"> 1. explain a given task and its purpose, in the selected Design and Technologies context. Consider a range of components/resources required to develop solutions and identify the constraints 2. develop design ideas and plans as part of the solution 3. propose design ideas that demonstrate a range of techniques, appropriate technical terms and technology to solve a problem using a sequence of steps 4. apply criteria to evaluate design processes and solutions.
Type of assessment	Formative and summative
Purpose of assessment	To assess student achievement (Processes and production skills) in the Design and Technologies subject, regardless of the context.
Assessment strategy	Student work will inform teacher judgement and support a shared understanding of the standard. A shared understanding promotes comparability for all students.
Evidence to be collected	As detailed in the task description
Suggested time	Varied, depending on the prior learning required. It is suggested, that 3–4 hours be allocated to the completion of the task required for the moderation workshop.
Content description	
Content from the Western Australian Curriculum	<p>Students are required to apply the following process and production skills to a Year 7 Design and Technologies subject.</p> <p>Investigating and defining Define and break down a given task, identifying the purpose Consider components/resources to develop solutions, identifying constraints</p> <p>Designing Design, develop, review and communicate design ideas, plans and processes within a given context, using a range of techniques, appropriate technical terms and technology Follow a plan designed to solve a problem, using a sequence of steps</p> <p>Evaluating Independently apply given contextual criteria to evaluate design processes and solutions</p>

Task preparation	
Prior learning	<p>Teachers select a Design and Technologies context suitable to the school and the students. Familiarisation with the selected context knowledge and understanding is necessary, prior to considering a solution to a problem.</p> <p>The attached marking key may be used to inform and support teacher judgement of student achievement, and provide more fine grain discrimination when explaining the differences between one student's achievement and another's. The marking key is not required at the workshop.</p>
Assessment differentiation	<p>Teachers should differentiate their teaching and assessment to meet the specific learning needs of their students, based on their level of readiness to learn and their need to be challenged.</p> <p>Where appropriate, teachers may either scaffold or extend the scope of the assessment tasks.</p>
Assessment task	
Assessment conditions	Technologies processes and production skills activities are to be completed within class time, over a period of 3–4 hours.
Resources	Resources will vary depending on the specific context delivered at the school.

Marking key	
Description	Marks
Investigating and defining	10
Provides a logical explanation for the given task.	2
States the given task.	1
Subtotal	/2
Identifies the purpose concisely for the given task.	2
Identifies the purpose of the given task.	1
Subtotal	/2
Describes in detail, three resources/components required to develop solutions.	3
Describes three resources/components required to develop solutions.	2
Lists three resources/components required to develop solutions.	1
Subtotal	/3
Describes in detail three constraints for consideration to develop solutions.	3
Describes three constraints for consideration to develop solutions.	2
Lists three constraints for consideration to develop solutions.	1
Subtotal	/3
Designing	15
Develops a range of design features relevant for the given task.	3
Develops design features for the given task.	2
Develops a design, which may not be suitable.	1
Subtotal	/3
For each of three selected techniques:	
Describes in detail techniques used to develop the given task.	2
Describes techniques to develop the given task.	1
Subtotal	/6
Uses a range of appropriate technical terms relevant for the given task.	3
Uses appropriate technical terms relevant for the given task.	2
Uses general technical terms.	1
Subtotal	/3
Creates a logical sequence of steps, including modifications to solve the problem.	3
Creates a logical sequence of steps to solve the problem.	2
Creates a sequence of steps.	1
Subtotal	/3
Evaluating	3
Applies given contextual criteria, including detailed and logical ideas and information, to evaluate the design process.	3
Applies given contextual criteria, including ideas and/or information to evaluate the design process.	2
Applies given contextual criteria ideas to evaluate the design process.	1
Subtotal	/3
Total	/31