



Sample assessme	ent task				
Year level	4				
Learning area	Technologies				
Subject	Design and Technologies: Materials and technologies specialisations				
Title of task	Recycled toys				
Task details					
Description of task	Students will research toys and make a toy using recycled materials that is suitable for a child in Pre-primary.				
Type of assessment	Formative				
Purpose of assessment	To develop students' understandings of material selection and how products are created and have evolved for consumers				
Assessment strategy	Practical assessment and student evaluation				
Evidence to be collected	 Design plan Production plan Student evaluation Final product 				
Suggested time	1–2 hour lessons				
Content descripti	ion				
Content from the Western Australian Curriculum	Technologies and society Ways products, services and environments are designed to meet community needs, including consideration of sustainability Materials and technologies specialisations Suitability and safe practice when using materials, systems and components for a range of purposes Processes and production skills Investigating and defining Define a sequence of steps to design a solution for a given task Designing Develop and communicate design ideas and decisions using annotated drawings and appropriate technical terms Producing and implementing Select, and safely use, appropriate components and equipment to make solutions				

Use criteria to evaluate and justify simple design processes and solutions

Task preparation	
Prior learning	Students have an understanding of toys for a specific audience that are age appropriate. Students understand how to evaluate their process and end product using given criteria.
Assessment differentiation	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. Where appropriate, teachers may either scaffold or extend the scope of the assessment tasks.
Assessment task	
Assessment conditions	Individually complete the construction and evaluation sheet once the toy is complete.
Resources	Various websites giving examples of toys made from recycled materials that are age appropriate.

Instructions for teacher

As a whole class, research different types of toys and the materials they are made of. Discuss the materials and why they are appropriate for their chosen toy, e.g. teddies are made from cloth so they are soft, rocking horses are made from wood so they are strong and can be sat on.

Brainstorm a list of possible recycled materials that could be used to construct their toys. Consider availability, safety and ease of use – can they use the materials in class to make their toy?

Examples of materials:

- old cloths (e.g. to make dolls, teddies)
- plastic bottles and lids (e.g. to make vehicles, robots)
- shells, coat-hangers (to make mobiles)

Task instructions

Students use the design sheet to draw and label a detailed design of their toy.

- Include a list of materials they think they are going to need/use.
- Make the toy.
- Complete the evaluation sheet. (Before doing this, students may give completed toys to intended recipients to get feedback from them. This may include strength, engagement of the recipient to play with it.)

Any worksheets or scaffolding specific to the task

- Design sheet which includes following information:
 - drawn design that is labelled
 - materials listed
 - method listed
 - explanation of choice
 - production plan.
- Evaluation sheet

Instructions to students

esign Sheet					
Draw your toy design and label it in detail, including the materials you use. Include a list of the materials you will use.					
ist the materials you will use	Method for construction – what are the steps to make your toy?				
ist the materials you will use	Method for construction – what are the steps to make your toy?				
olain why you chose to make this toy	y. Comment on who it is for, age, like/dislike.				
main with you enese to make this toy	Teerminente en 1917 age, me, alemen				

Production process

Develop a plan of how you will create your toy. Include the materials you are using and as much information as possible to assist you.

Steps to produce your toy:

Evaluation Sheet

Answer yes or no to the following questions and give reasons for your answers.

Question	Yes	No	Comment – reasons for your answers
Did you follow your design when you made your toy?			
Did you use the materials you had planned to use?			
Was your toy strong?			
Did your toy meet the needs of your target audience? Explain why or why not.			
What improvements could you make to your toy?			
What safety aspects have you considered?			
Why are these safety considerations important?			

Sample marking key	
Description	Marks
Technologies and Society	
Demonstrates an extensive understanding when making a product for a specific audience (e.g. age appropriate choice of toy) and justifies recycled materials used.	5
Demonstrates a high level of understanding when making a product for a specific audience (e.g. no small pieces for babies) and explains the recycled materials used.	4
Has an accurate understanding of making a product for a specific audience and the toy matches its purpose. Uses recycled materials.	3
Has limited understanding of connecting audience to purpose and requires guidance to select a toy to construct and advice on material use.	2
Requires assistance to select a toy to make for a specific audience.	1
Subtotal	5
Description	Marks
Materials and Technologies Specialisations	
Independently selects a variety of appropriate materials to make a toy for a young child and justifies materials selected to match their use. Justifies safety considerations in detail.	5
Independently selects materials appropriate to the construction of the toy and accurately explains the choices made. Explains safety considerations clearly.	4
Selects materials to make a toy that are appropriate to complete the task. Makes reference to the choice of materials.	3
Considers the safety aspects and gives a simple explanation. Demonstrates limited understanding when selecting appropriate materials for a specific purpose and requires guidance. Requires assistance to describe 1 or 2 safety aspects.	2
Requires assistance to select appropriate materials to make a toy. Does not consider safety when making the toy.	1
Subtotal	5
Description	Marks
Investigating and Defining	
Integrates understanding about designing and applies this to the toy design. Demonstrates thought and insight into the design of the toy for intended recipient, e.g. may gather information prior to designing such as likes and dislikes.	5
Applies learning and consistently demonstrates an understanding of design processes. Toy reflects accurate detail in the design.	4
Applies learning accurately and demonstrates developing a sequence of steps by drawing a labelled diagram of intended toy.	3
Shows inaccuracies in drawn design and has a lack of detail in the labelled toy.	2
Show little accuracy in the task at this level. Design may be incomplete and lacks any detail, e.g. may just be a drawn toy.	1
Subtotal	5

Description	Mark
Designing	
Demonstrates extensive knowledge and understanding of design and design choice. Uses a range of appropriate technical terms to explain choices.	5
Demonstrates a high level of competence when choosing a design which is reflected in the drawing of the toy. Uses appropriate technical terms to explain choices.	4
Able to accurately draw and label a design for a toy. Uses some technical terms to explain choices.	3
Demonstrates a limited level of understanding and has inaccuracies in labelled drawing.	2
Demonstrates a very limited understanding of designing and does not communicate ideas clearly.	1
Subtotal	5
Description	Mark
Evaluating	
Comprehensively acknowledges that the initial design needs to match the end outcome and accurately explains any alterations made, justifying why they were made.	5
Understands the toy must match the design and can clarify any changes made and give reasons for the changes.	4
Follows design accurately and understands the end program should match the initial design. Lists basic changes made.	3
	2
design. Lists basic changes made.	
design. Lists basic changes made. End product may not match design. Attempts to give basic reasons for changes End product does not match the design and no explanation is given for why OR the	2