



Sample assessment task	
Year level	4
Learning area	Science
Subject	Chemical Sciences
Title of task	Classroom materials, properties and uses
Task details	
Description of task	To identify what objects are made of (materials) and how the physical properties of items may influence their use
Type of assessment	Summative
Purpose of assessment	This task is used at the end of a unit of work to assess student understanding of materials and their properties
Assessment strategy	Written work
Evidence to be collected	Resource sheet
Suggested time	40 minutes
Content description	
Content from the Western Australian Curriculum	<p>Science understanding Natural and processed materials have a range of physical properties that can influence their use</p> <p>Science as a human endeavour Science involves making predictions and describing patterns and relationships Science knowledge helps people to understand the effect of their actions</p> <p>Science inquiry skills Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends Represent and communicate observations, ideas and findings using formal and informal representations</p>
Task preparation	
Prior learning	Students have prior knowledge of the different materials objects are made from, and the properties and behaviour of familiar objects.
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	This is an individual task, in-class assessment at the end of a unit of work.
Resources	Assessment task

Classroom materials, properties and uses

What's in my classroom?

Teacher to import image of the classroom.



Complete the table below

Choose five more objects from your classroom or the picture above

Object	Material	Properties	Object use related to the property of the material Can you describe other everyday uses?
Water Bottle	Plastic	Rigid, waterproof	Holds cold liquids

If you found these objects, would you be able to use them?		
Object	Yes or No	What is your reason?
Glass hammer		
Cardboard saucepan		
Plastic chair		
Brick pillow		
Metal spoon		
Wooden ruler		
Tissue paper raincoat		

Sample marking key

Description	Marks
Picture stimulus table	
Correctly identifies materials used. Lists the properties of these materials.	3
Recognises some materials used. Lists some properties of these materials.	2
Identifies obvious observable properties of materials.	1
Subtotal	3
Description	Marks
Picture stimulus table	
Explains how the property of materials influences its use and application in everyday life. Provides further examples that are not within the classroom.	3
Identifies how the property of material influences its uses and suitability.	2
Identifies observable properties and makes connections to suitability.	1
Subtotal	3
Description	Marks
What if I found these objects?	
Applies understanding of the observable properties of materials to explain how these properties influence their use. Explains how this affects their suitability.	4
Applies understanding of the observable properties of materials. Explain how these properties influence their use.	3
Applies understanding of the observable properties of materials. Describes how these properties influence their use.	2
Identifies obvious observable properties of materials. Describes how these properties influence their use.	1
Subtotal	4
Total	10