

Government of **Western Australia School Curriculum and Standards Authority**



Sample assessment task				
Year level	3			
Learning area	Science			
Subject	Chemical Sciences			
Title of task	Heating up and cooling down			
Task details				
Description of task	Students will provide examples of solids and liquids, and explain the effects of heating and cooling various ingredients.			
Type of assessment	Summative			
Purpose of assessment	This task may be used at the end of a unit of work to demonstrate student understanding of change of state between a solid and a liquid.			
Assessment strategy	Worksheet			
Evidence to be collected	Worksheet			
Suggested time	20 minutes			
Content description				
Content from the Western Australian Curriculum	Science understanding A change of state between solid and liquid can be caused by adding or removing heat Science as a human endeavour Science knowledge helps people to understand the effect of their actions			
	Science inquiry skills Represent and communicate observations, ideas and findings using formal and informal representations			
Task preparation				
Prior learning	Students are familiar with everyday materials, their properties, and how they may be physically changed. They have investigated and shared practical experiences involving heating, cooling and freezing of different materials.			
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	Individual			
Resources	The following, optional resources have been included to support teachers in developing relevant and appropriate lesson content.			
	BBC Science Clips – Solids and liquids http://www.bbc.co.uk/schools/scienceclips/ages/8 9/solid liquids fs.shtml BBC Science Clips – Changing states			

http://www.bbc.co.uk/schools/scienceclips/ages/9_10/changing_state_fs.shtml
States of matter – 3 rd grade
https://www.youtube.com/watch?v=JYf5NDA_Mww
3 States of Matter for kids (Solids, Liquid, Gas): Science for Children – Freeschool
https://www.youtube.com/watch?v=wclY8F-UoTE

Heating up and cooling down

		Name
1. List and/or draw three exa	amples of each.	
Solid		
Liquid		
2. Write and/or draw what h	appens to the following ma	iterials when the temperature changes.
D. H	Heated	Cooled
Butter		
Chocolate		
Icecream		
icecieaiii		
3. Choose another material a	and explain what happens v	when the temperature changes.
NA-A	that have a	
Material V	Vhat happens	
4. Choose one of the materia	als above and explain how i	t is stored and why?

Science | Chemical Sciences | Year 3 | Sample Assessment Task

Sample marking key	
Description	Marks
Questions 2,3	
Provides explanation for changes of state in a liquid or solid at varying temperatures.	4
Makes links to real life and provides suitable examples.	4
Suggests explanation for change of state of a liquid or solid at varying temperatures.	2-3
Identifies materials as a liquid or a solid.	1
Subtotal	4
Description	Marks
Question 4	
Demonstrates application of science understanding to show how scientific knowledge is applied to people's daily lives, how foods are stored, and explains why.	4
Describes a personal experience, using science understanding to explain how science knowledge applies and impacts on people's daily lives.	2-3
Provides a limited description of science understanding and its application to the world.	1
Subtotal	4
Total	8