

Year 2
Satisfactory

WORK SAMPLE PORTFOLIO

Annotated work sample portfolios are provided to support implementation of the Foundation – Year 10 Australian Curriculum.

Each portfolio is an example of evidence of student learning in relation to the achievement standard. Three portfolios are available for each achievement standard, illustrating satisfactory, above satisfactory and below satisfactory student achievement. The set of portfolios assists teachers to make on-balance judgements about the quality of their students' achievement.

Each portfolio comprises a collection of students' work drawn from a range of assessment tasks. There is no predetermined number of student work samples in a portfolio, nor are they sequenced in any particular order. Each work sample in the portfolio may vary in terms of how much student time was involved in undertaking the task or the degree of support provided by the teacher. The portfolios comprise authentic samples of student work and may contain errors such as spelling mistakes and other inaccuracies. Opinions expressed in student work are those of the student.

The portfolios have been selected, annotated and reviewed by classroom teachers and other curriculum experts. The portfolios will be reviewed over time.

ACARA acknowledges the contribution of Australian teachers in the development of these work sample portfolios.

THIS PORTFOLIO: YEAR 2 SCIENCE

This portfolio provides the following student work samples:

Sample 1 Investigation: How to make water clean

Sample 2 Design task: Materials swap Sample 3 Investigation: Pushing cars

Sample 4 Investigation: Water at home and at school

Sample 5 Worksheet: Life stages

Sample 6 Worksheet: Science in daily life

Sample 7 Investigation: Rocky road

Sample 8 Worksheet: Classifying mixtures

In this portfolio the student describes changes to the position of objects as a result of applying a push (WS3) and changes to living things, particularly growth and changes in behaviour (WS5). The student considers water as a resource and identifies its uses in daily life (WS4). The student investigates the properties and uses of a variety of materials and mixtures (WS2, WS7, WS8) and considers the best mix of materials to construct an object for a particular purpose (WS2, WS7). The student links science practices to activities in daily life, such as food production (WS7).

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The student demonstrates the ability to predict outcomes of investigations (WS1, WS3, WS7) and uses informal measurements (for example, 'clear', 'biggest', 'harder') when recording and comparing observations (WS1, WS3, WS7). The student conducts investigations (WS1, WS3, WS4, WS7), follows teacher instructions to record and represent observations (WS1, WS2, WS3, WS4, WS5, WS6, WS7) and communicates ideas to others using drawing, written text and labelled diagrams (WS1, WS2, WS3, WS4, WS5, WS6, WS7, WS8).

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Investigation: How to make water clean

Year 2 Science achievement standard

The parts of the achievement standard targeted in the assessment task are highlighted.

By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.

Students pose questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They follow instructions to record and represent their observations and communicate their ideas to others.

Summary of task

Students had engaged in class discussions about the use and cleanliness of water as part of a focus on sustainable use of resources. They had been explicitly taught how to construct a procedural text.

The students were shown a range of materials that could be used to filter dirty water. They chose between filter paper, cotton wool and gauze to construct their filter, then designed an experiment to investigate whether they were able to filter the water successfully. Students were provided with a template to help them to construct their investigation report, and the teacher took photos of their procedure to help them to construct the steps of the investigation.





Investigation: How to make water clean

Title: how to make duty water clen

Materials:

* Smal hand fall of sand

* little bit of sole, di little bit of grass

* 20 patrills

* mudy water

* filta papu

My prediction (hypothesis):

I think that the water will be klen only if you put it thought five time's because the filtu will pick all the duty water up.

Annotations

Uses informal measurements to construct the investigation method.

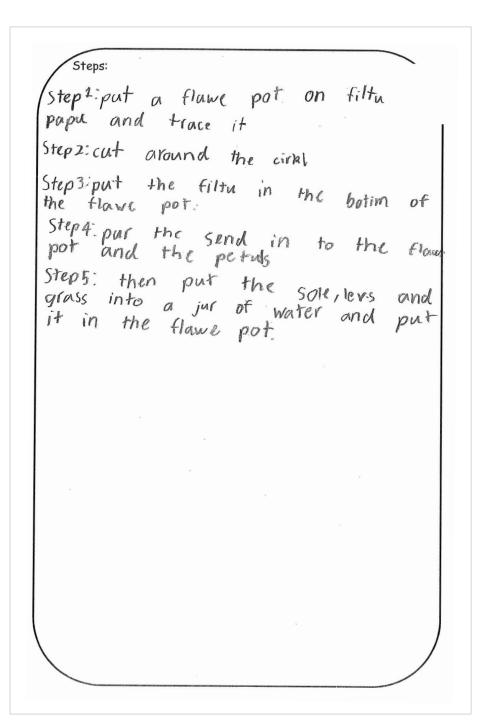
Makes a plausible prediction about the effect of the filter.





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Investigation: How to make water clean



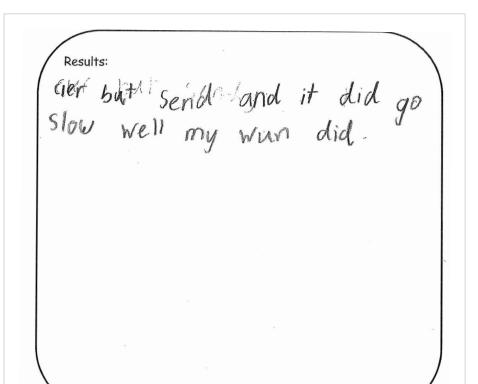
Annotations

Records steps to investigate the effect of the filter.





Investigation: How to make water clean



Annotations

Records observations of the results, including informal measurements of the speed at which the water is filtered, and the quality of the filtered water.

conclusion:

it was a bit like my but my
was not send.

Compares observations with predictions and identifies differences.

Annotations (Overview)

The student communicates ideas, investigation steps and observations through written text.

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Design task: Materials swap

Year 2 Science achievement standard

The parts of the achievement standard targeted in the assessment task are highlighted.

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Students pose questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They follow instructions to record and represent their observations and communicate their ideas to others.

Summary of task

Prior to undertaking this task, students participated in a materials treasure hunt around their classroom. They were asked to find all of the places where certain materials were used and provide an explanation for their use. For example, glass can be found in windows and doors because it is clear, which means we can see through it.

For the task itself, students focused on the materials in an umbrella. They were asked to identify the materials and consider why different materials were used. Students then completed a 'materials swap' in order to improve the umbrella. They were asked to draw their umbrella and explain which materials they had replaced and why.





Design task: Materials swap



Annotations

Suggests a plausible reason for the choice of material for one part of the object.

Identifies alternative materials to replace three different parts of the object.

Identifies that the object is made up of different materials.

Annotations (Overview)

The student communicates ideas through text and an annotated diagram.





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Investigation: Pushing cars

Year 2 Science achievement standard

The parts of the achievement standard targeted in the assessment task are highlighted.

By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.

Students pose questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They follow instructions to record and represent their observations and communicate their ideas to others.

Summary of task

Prior to undertaking this task, students explored all the ways they could change the shape of objects, or the ways they could change how objects moved. They observed students on play equipment and discussed how different strengths of pushes and pulls were involved in changing movement.

Students were asked to investigate the effect of different-sized pushes on the movement of a toy car. They were given an investigation worksheet to complete, but were required to develop their own means of describing and comparing their results. Students worked in small groups to complete the investigation and then developed their reports independently.



Investigation: Pushing cars

	Annotations
Pushing Cars	
Investigation	
I predict that a big push will make the car go push.	Makes a prediction that links the size of the push to the distance it will travel.
What happened?	Uses informal measurements to make observations. Constructs a representation to share observations.
the big push want realy for and the Medium push not so far phenol the big push the little push was just behind the Medium push and the no push dictint even so.	Describes observations and identifies that each different strength of push resulted in a different distance travelled, including that no push means the car didn't travel at all.
Did my observations match my predictions?	

Annotations (Overview)

The student communicates ideas and observations through written text and an annotated diagram.

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Investigation: Water at home and at school

Year 2 Science achievement standard

The parts of the achievement standard targeted in the assessment task are highlighted.

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Summary of task

Prior to undertaking this task, students had engaged in a class discussion about where water was used at school and for what purposes. They recorded and shared their ideas as a class, grouping ideas under the headings of 'Where does water come from?', 'What is water used for?', 'Who or what uses water?' and 'What does it mean to use water responsibly?' Students then walked around the school to confirm or modify their ideas.

Students were asked to complete a homework task to identify the uses of water at home. They then spent time in class to organise their ideas about water use at home and at school in a graphic organiser. Students spent approximately two hours on the combined elements of the task.





Investigation: Water at home and at school

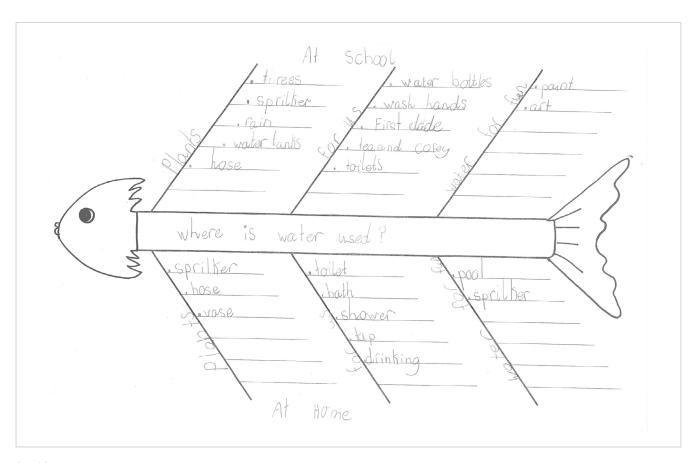


Annotations

Identifies multiple examples of places in the home where water is found.



Investigation: Water at home and at school



Annotations

Sorts and records observations in provided graphic organiser.

Identifies a range of examples of water usage at home and school, including for growing plants, drinking, cleaning and leisure activities.

Annotations (Overview)

The student communicates ideas through annotated drawings and written text.

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Worksheet: Life stages

Year 2 Science achievement standard

The parts of the achievement standard targeted in the assessment task are highlighted.

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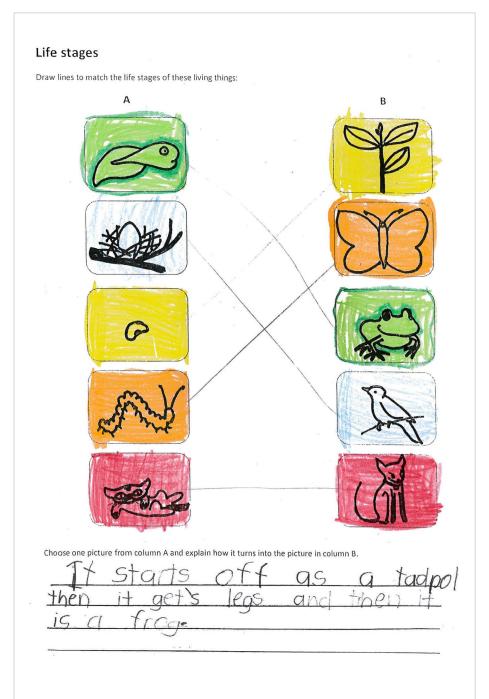
Summary of task

Students had watched some videos, read some books and observed some germinating plants to explore the ways in which living things grow and develop. They had discussed examples of living things, characteristics of their life stages and the language associated with those stages.

Students were given the worksheet following a review of their learning in the unit. The teacher guided students through the instructions and they then completed the task independently over an hour.



Worksheet: Life stages



Annotations

Links the life stages of a variety of living things.

Describes some life stages of a frog.

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Worksheet: Life stages

What are the life stages of a human being? Draw and label your life stages				
	A baby in a mummy tummy			
	A baby crawling.			
	A Kid going to School			
	A grown up getting			

Annotations

Identifies birth as a key stage in human development.

Identifies changes in personal activity associated with life stages.

Annotations (Overview)

The student communicates ideas through drawings and written text.



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Worksheet: Science in daily life

Year 2 Science achievement standard

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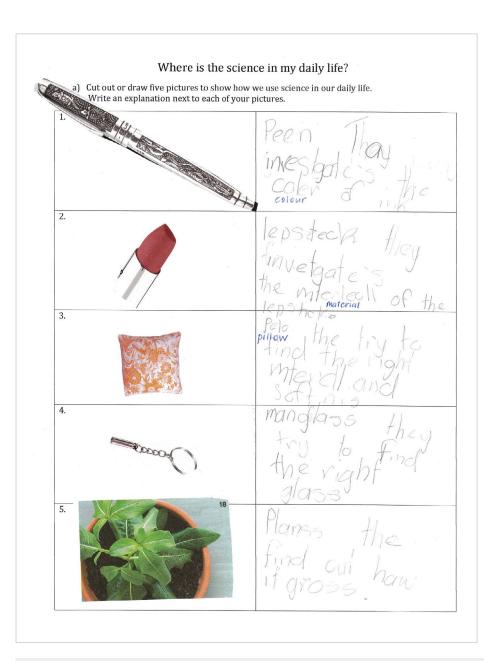
Summary of task

As part of their science investigations, students had discussed examples of where science is used in daily life, including identifying instances in shared reading.

Students were given a task sheet and a pile of magazines. The teacher read through the instructions on the task sheet with the class and reminded them of safety rules for using scissors. Students then completed the task independently over one hour. Following completion of the table, students were asked to write a sentence at the bottom of the sheet answering the question, "What do scientists do?"



Worksheet: Science in daily life



Annotations

Identifies a variety of ways science is involved in aspects of everyday life, including design and selection of materials and study of living things.

Completes a provided table to record ideas.

Annotations (Overview)

The student communicates ideas through selected images and written text.





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Investigation: Rocky road

Year 2 Science achievement standard

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Summary of task

Students had investigated mixing and separating a variety of substances using different methods. They had discussed ways in which mixing substances is part of everyday life.

Students were provided with a range of potential ingredients for rocky road. They observed each ingredient and predicted what it would do when added to the rocky road mixture. They followed instructions to make a basic rocky road recipe and also made a recipe using their own choice of ingredients. They observed the end results and compared their own and others' recipes. They reflected on their predictions and communicated their findings.





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Investigation: Rocky road

ROCKY ROAD

Choose 2 extra ingredients to add to the basic recipe.

	PICTURE	INGREDIENTS	DESCRIPTION	PREDICTION			
Basic Recipe		Chocolate	Brown, runny, gooey, hot	Will set and hold mixture together			
Basic F	1086)	Marshmallows	Squishy, pink, soft, white, round, sweet	the crodet will get squicky			
	785 PES	Corn Flakes	hard, yellwe, bungy and cracky	The croclet well ! hader -			
		Smarties	colifolichocklety, yummoyand in side	choclety			
Draw pictures in a cup or on a spoon Choose 2 to add to the basic recipe	0000	Sultanas	descenigand round	Soft and hard			
Draw pictures in a cup or on a spoon Choose 2 to add to the basic recipe	0000	Rice Bubbles	Rhard, taysty, cranchy and white	melty			
ictures in a	111	Coconut	hard, white 1900d Smeltys mall, rectangol analyamy	Mise Small white			
1. Draw pi	0000	Icing Sugar	Whitesthern, smely and soft	The coclete we get Soft!			
		Water	Seethrow, wighly warry and wet	The coclete ne meltand watery			
		Cheese	Soft dilithes, volly and spred	cheysy and			

I'm going to add coconut and smarties.

because I want my Rocky Road to be fantastide because the because says by with bit had and cain bow!!!

Annotations

Observes and records properties of each ingredient.

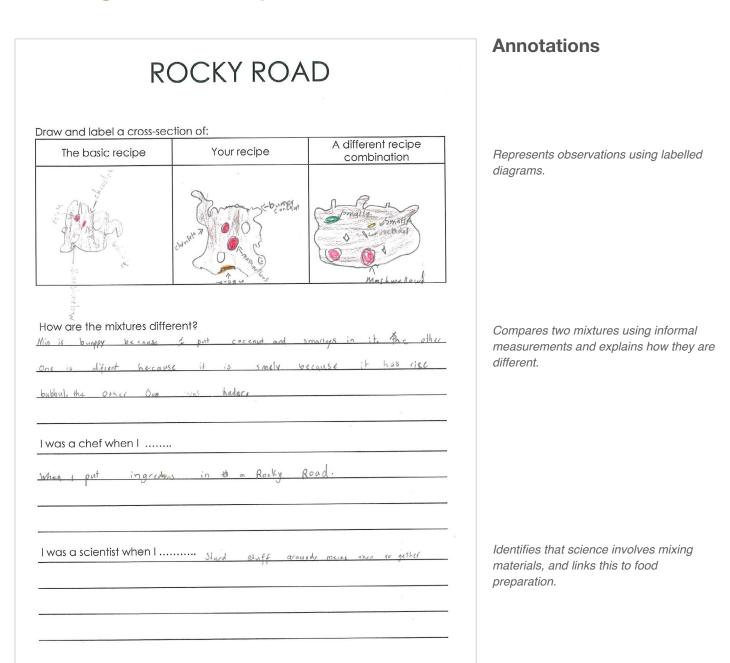
Predicts how different ingredients will affect the properties (texture and taste) of the mixture.

Selects ingredients and predicts how they will affect the properties (texture, hardness and colour) of the mixture.





Investigation: Rocky road



Annotations (Overview)

The student completes a template to record observations and communicate ideas using written text, drawing and diagrams.



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Investigation: Rocky road



Annotations

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Worksheet: Classifying mixtures

Year 2 Science achievement standard

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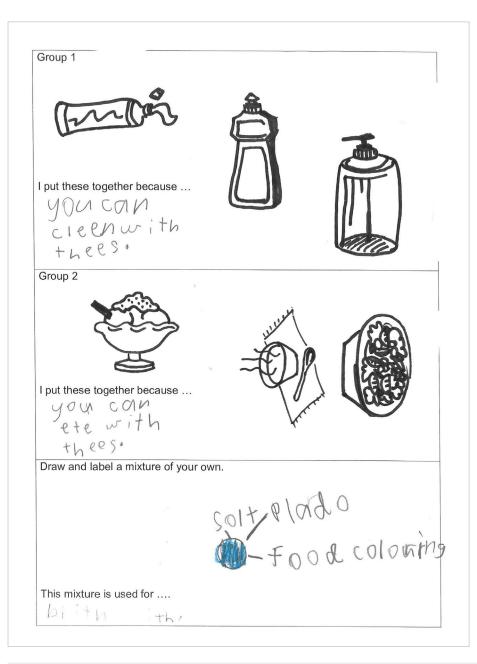
Summary of task

Students were provided with images of a range of mixtures they might find around their home. The class discussed what familiar mixture each image represented. Students were then required to sort the mixtures into two groups and to explain their classification, and to draw and label a familiar mixture and describe its use.



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Worksheet: Classifying mixtures



Annotations

Groups mixtures based on their use in the home.

Identifies a familiar mixture and indicates the materials in it.

Identifies a use for the chosen mixture.

Annotations (Overview)

The student completes a template to communicate ideas using written text and drawing.

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