

WORK SAMPLE PORTFOLIOS

These work sample portfolios have been designed to illustrate satisfactory achievement in the relevant aspects of the achievement standard.

The December 2011 work sample portfolios are a resource to support planning and implementation of the Foundation to Year 10 Australian Curriculum in English, Mathematics, Science and History during 2012. They comprise collections of different students' work annotated to highlight evidence of student learning of different aspects of the achievement standard.

The work samples vary in terms of how much time was available to complete the task or the degree of scaffolding provided by the teacher.

There is no pre-determined number of samples required in a portfolio nor are the work samples sequenced in any particular order. These initial work sample portfolios do not constitute a complete set of work samples - they provide evidence of most (but not necessarily all) aspects of the achievement standard.

As the Australian Curriculum in English, Mathematics, Science and History is implemented by schools in 2012, the work sample portfolios will be reviewed and enhanced by drawing on classroom practice and will reflect a more systematic collection of evidence from teaching and learning programs.

THIS PORTFOLIO - YEAR 2 SCIENCE

This portfolio comprises a number of work samples drawn from a range of assessment tasks, namely:

Sample 1 Report – Using water
Sample 2 Report – Let's grow a plant

Sample 3 Investigation – Floating and sinking
Sample 4 Investigation – What is it made out of?

Sample 5 Recount – Chick diary Sample 6 Poster – The Daintree

In this portfolio the student describes changes to the position of objects as a result of applying a push or a pull (WS3) and changes to living things, particularly growth and changes in behaviour (WS2, WS5). The student considers water as a resource and identifies its uses in daily life (WS1). The student investigates the Daintree rainforest as a resource and identifies its uses for a variety of living things (WS6). The student investigates the use of a variety of materials in the classroom and considers how their properties make them useful for particular purposes (WS4).

The student demonstrates the ability to pose questions about personal experiences (WS2) and predict outcomes of investigations (WS3) and uses informal measurements (for example, 'hard to push', 'biggest') when recording and comparing observations. The student conducts investigations, follows teacher instructions to record and represent observations (WS1, WS2, WS3, WS4, WS5) and communicates ideas to others using text and labelled diagrams (WS1, WS2, WS3, WS4, WS5, WS6).

The following aspects of the achievement standard are not evident in this portfolio:

- describe changes to materials
- · describe examples of where science is used in people's daily lives.



Work sample 1: Report – Using water

Relevant parts of the achievement standard

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

As part of a unit topic on water, students explored how water is used in their daily life and why it is so important to save water.

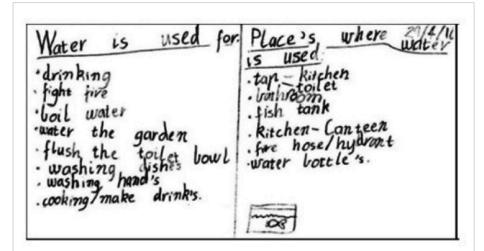
Students were asked to consider how they used water in their daily lives. They were asked to answer the questions:

- what is water used for?
- where it is used?
- why do we need to save water?



Work sample 1:

Report – Using water



Why do we need to save fresh water?

The world is having more people and they are using more water.

It is because if we do not have fresh water we will not survive.

Fresh water has a limited amount and Earth will not get anymore water.

Some countries do not have enough fresh water examples, Africa.

It is because we have more sea water than fresh water.

People are using to much fresh water (more than they need).

Annotations

Identifies a range of everyday uses of water and locates where it is used.

Follows instructions to record information under specified headings.

Explains why water resources need to be conserved and recognises that fresh and salt water are different.

Communicates ideas to others using text.

Acknowledgment

ACARA acknowledges the contribution of trial school teachers and students for providing the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.



Work sample 2:

Report – Let's grow a plant

Relevant parts of the achievement standard

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

Over a four week period, students observed the growth of a plant.

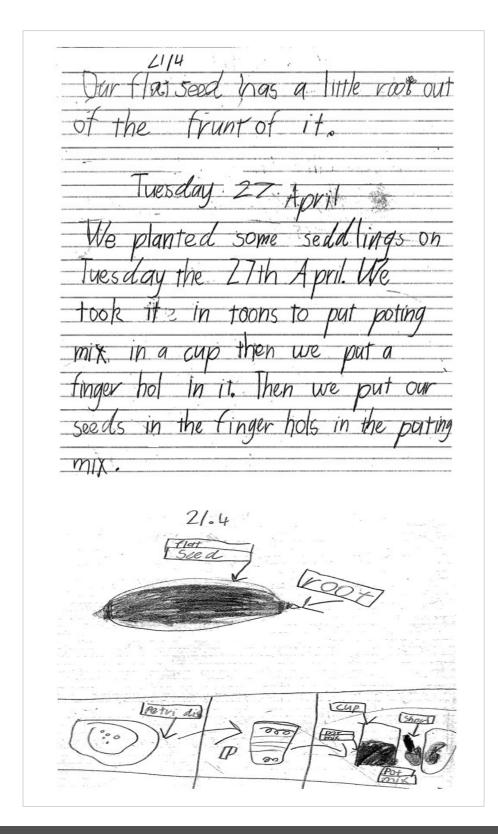
Students were asked to observe and record the growth of a plant. Throughout the process, they were required to:

- describe the seed prior to planting
- describe and draw the procedure for growing a plant
- observe the plant growing and develop questions and answers to:
 - describe the growth process
 - compare the growth of two plants (a broad bean and a snow pea)
 - identify what plants need to grow.



Work sample 2:

Report – Let's grow a plant



Annotations

Describes the process of planting the seed.

Records observations using labelled diagrams.



Work sample 2:

Report – Let's grow a plant

What comes first the root or the
shoot? The voot grose first it gross
first so the plant can get the
water. How do plants grow?
Thay put there roots into the soil
and then the plant can get water
from the grownd. What do plants
need to grow ? Soil, nutrins, water and
drid up fruit. Which plant will be the
biggest? The snow pea was the
biggest. What seed will grow
first? the snow pea growd first.
Where do plants grow best? In a
Sunny spot with sortof wet spot with
soil and nutrins.

Annotations

Constructs questions about the growth of the plants.

Describes observations of how the plant grows and changes over time.

Identifies the needs of the plant for survival.

Uses informal measurements to compare the growth of the broad bean and snow pea plants.

Communicates questions and ideas to others using text.

Acknowledgment

ACARA acknowledges the contribution of trial school teachers and students for providing the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.



Work sample 3: **Investigation – Floating and sinking**

Relevant parts of the achievement standard

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

The class had been exploring forces with a focus on pushes and pulls. The teacher had discussed floating and sinking, encouraging the students to relate their ideas to previous lessons on forces.

Students were asked to work in groups of three or four to conduct an investigation into floating and sinking. Each group was provided with three different sized balls and a tub of water and asked to push the balls under water. The class were instructed to draw labelled diagrams to show what happened and to complete the recording form provided. The observations about the experiment were completed independently by each student.



Work sample 3:

Investigation – Floating and sinking

rest	e na		e air	or light.
The	Irall			nore air
are				d the ones
that	have			ones that sin
		OUR EXPER		
			ınder water	and experience the
ettect of	push and pu	III torces,		
Dra	w a labeled	diagram about	what you fo	und out today.
Dra	w a labeled	diagram about	what you fo	und out today.
Dra	w a labeled	diagram about	what you fo	und out today.
Dra	w a labeled	diagram about	what you fo	und out today.
Dra	Hard	diagram about	what you fo	und out today.
Dra	S-1	diagram about	what you fo	und out today.
	Hard Ato Push	diagram about	what you fo	Easy 1+0
Dra ractely	Hard Ato Push	diagram about	what you fo	und out today.
	Hard Ato Push	diagram about	What you fo	Easy 1+0
Dra	Hard	diagram about	what you fo	und out today.
	Hard Ato Push	diagram about	What you fo	Easy 1+0
	Hard Ato Push	diagram about	What you for	Easy 1+0
	Hard Ato Push	diagram about	What you fo	Easy 1+0

Annotations

Predicts which balls will float and which will sink based on the amount of air in the ball.

Uses informal measurements to describe the ball size and the size of the push force required to immerse the ball.

Represents findings using a labelled diagram.

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Work sample 3:

Investigation – Floating and sinking

	nat you felt as you pushed each ball under the water and by this happened.
1 rlea	water quite a bit and when
it lo	anded it did tloat.
Medium si	let go of it it came out
of t	he wafer and into the air it did float.
Smallest B It wa it did but	11 - 1 1 1 1 1 1 1 1 1

Annotations

Communicates observations using text.

Uses informal measurements to describe the push force required to immerse each ball.

Acknowledgment

ACARA acknowledges the contribution of the Department of Education, Western Australia for providing the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.



Work sample 4: **Investigation – What is it made out of?**

Relevant parts of the achievement standard

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

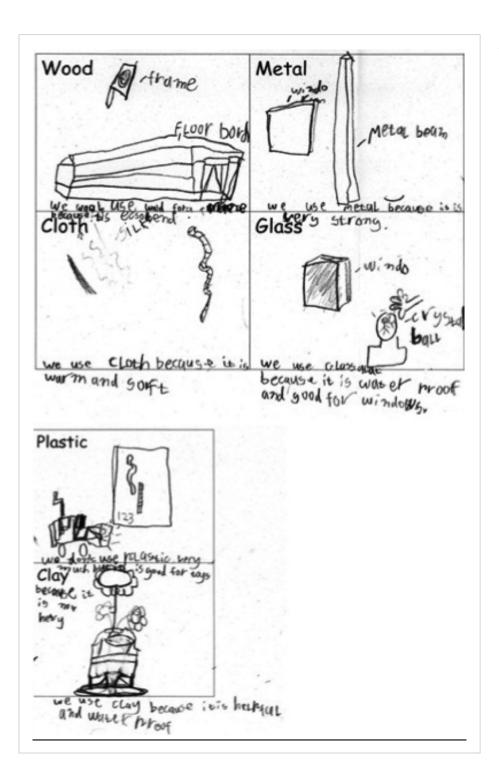
Students had identified some common materials found in objects around the classroom and explored why these materials had been selected for that use.

Students were asked to independently locate objects made out of a specified material, draw the object and describe why they thought that material had been chosen.



Work sample 4:

Investigation – What is it made out of?



Annotations

Observes a variety of objects that are made of a particular material.

Explains why the materials are used for that purpose with reference to properties of the material.

Uses text and labelled diagrams to communicate ideas to others.

Acknowledgment

ACARA acknowledges the contribution of the Curriculum Council, Western Australia for the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.



Work sample 5: **Recount – Chick diary**

Relevant parts of the achievement standard

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

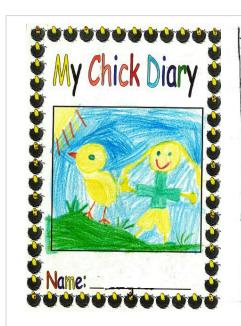
Students observed the growth and development of a number of chicks. They observed the chicks hatch, identified individual chicks and then observed their growth and behaviour. Students with egg allergies did not handle the eggs or chicks.

Students were asked to make diary entries to record their observations of the chicks. They shared their observations as a class group before they engaged with the writing task.



Work sample 5:

Recount - Chick diary



Today, 9th August when we got to school our chicks were inour clossroom. There are 2 chicks in the enclosive and 10 eggs in the incubator. They are yellow and small I would like to name our chick Fluffy.

This morning when I got to school 6 chicks hatched Theights are brown and The boys yellow it toks 8 hours intel the chick can cum out ou the egg. There are two more eggs to hata

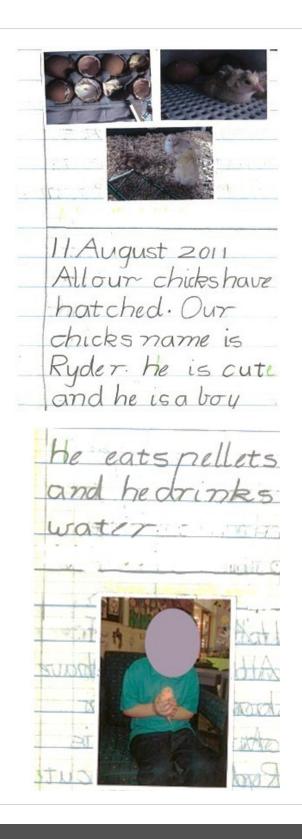
Annotations

Makes and communicates observations of growth and change using text.



Work sample 5:

Recount - Chick diary



Annotations

Makes and communicates observations of growth, change and behaviour using photographs and text.



Work sample 5:

Recount - Chick diary

Today when I got to school The chicks got bigger and excited They were running and they tried to fly. They live in tax enclose In the enclose they have palits and wota.

Two weeks ago our chicks arrived. There were two chicks in the enclosure and ten in the incubator. They grew feathers and wings. When they leave they will go to a new school.

Annotations

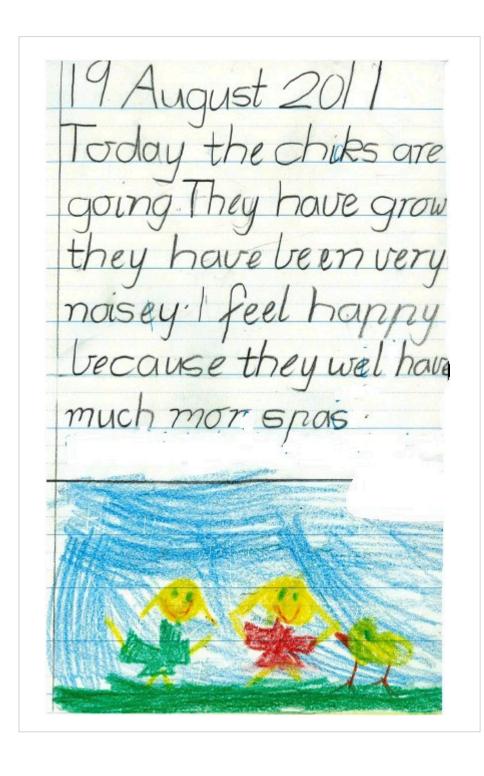
Describes changes to the chicks' size and behaviour.

Identifies the growth of feathers and wings as changes to the chicks.



Work sample 5:

Recount - Chick diary



Annotations

Identifies that living things require more space as they grow.

Communicates ideas using text and drawing.

Acknowledgment

ACARA acknowledges the contribution of the Catholic Education Office of Western Australia for the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.



Work sample 6: Poster – The Daintree

Relevant parts of the achievement standard

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

As a response to a report that a large area of the Daintree rainforest was to be cleared to enable the construction of a large resort, the students brainstormed ideas about the effect of this action on living things.

Students were asked to produce a poster, an aeroplane banner or an interview for a current affairs TV show to publicise their concerns.



Work sample 6:

Poster - The Daintree



Annotations

Identifies the Daintree rainforest as a valuable resource.

Identifies that the rainforest provides a range of resources for a variety of living things.

Annotations (Overview)

The student communicates their ideas through text and illustrations.

Acknowledgment

ACARA acknowledges the contribution of Education and Training Directorate, ACT for providing the tasks and work samples. The annotations are referenced to the Australian Curriculum achievement standards.