

Year 1
Above 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 1 MATHEMATICS

This portfolio provides the following student work samples:

Sample 1 Number: Skip counting
Sample 2 Number: One half

Sample 3 Number: Money mind map

Sample 4 Geometry: 2D

Sample 5 Statistics: Our fruit today

Sample 6 Number: I dropped my counters
Sample 7 Number: What is the number?
Sample 8 Number: Growing patterns

Sample 9 Statistics: Familiar events
Sample 10 Measurement: Time

Sample 11 Geometry: Direction

This portfolio of student work shows an ability to describe the properties of 2D shapes (WS4), represent addition and subtraction (WS6, WS3) and skip count (WS1). The student models and compares representations of a half (WS2). The student uses concrete objects to describe locations (WS11) and position, and to continue a pattern (WS8). The student describes, collects and displays data (WS5 and WS9) and recognises Australian coins and their value (WS3). The student tells the time to the half hour (WS2) and shows how two-digit numbers can be partitioned (WS7).

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Year 1
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Number: Skip counting

Year 1 Mathematics achievement standard

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

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Students count to and from 100 and locate numbers on a number line. They carry out simple additions and subtractions using counting strategies. They partition numbers using place value. They continue simple patterns involving numbers and objects. Students order objects based on lengths and capacities using informal units. They tell time to the half hour. They use the language of direction to move from place to place. Students classify outcomes of simple familiar events. They collect data by asking questions and draw simple data displays.

Summary of task

Students were given a number line. They chose a number to start and then demonstrated how they would skip count to reach another number.





Number: Skip counting

2. 4. 6. 8. 10,12.14,16,18,20,22,24,26,28.30,32,34,36,38,40,42,44,46,48,50

0.10, 20,30,40.50, 3,6,9,12,15,18.21,24, 27,30,33,36,39,42,45,48,50

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Annotations

Skip counts by 2s, 3s, 5s and 10s.



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Number: One half

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Summary of task

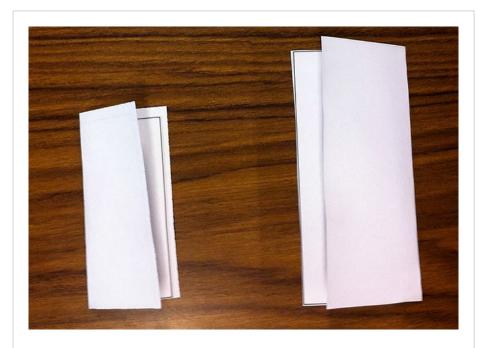
Students were given a number of different items and were asked to show how they would use them to demonstrate one half. They were asked to relate their knowledge of 'half' to half-hour time on an analog clock.





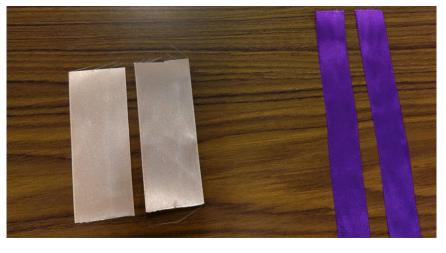
Year 1 Above satisfactory

Number: One half



Annotations

Folds rectangular objects to model half.



Demonstrates understanding of the concept of one half using length to compare parts directly by placing one next to the other and aligning the ends.

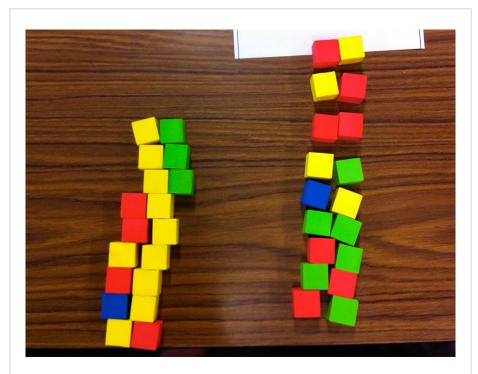
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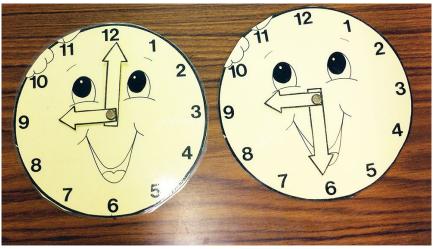
Number: One half



Annotations

Shares a collection of objects into two equal parts or halves.

Arranges each part of the collection into nine rows of two.



Tells time to the hour when asked to show 9 o'clock on an analog clock.

Places the minute hand in the correct position to show half-hour time on an analog clock but incorrectly positions the hour hand.

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Number: Money mind map

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Summary of task

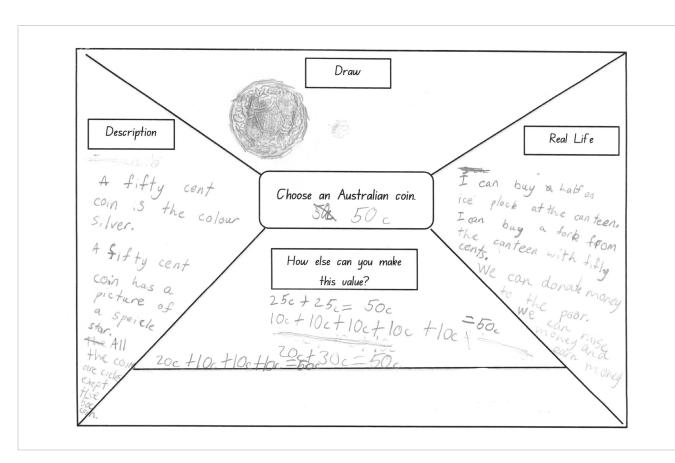
A unit on money and financial mathematics was taught for a period of two weeks in conjunction with number and place value. Students had experienced mind maps and a class shop in other learning areas. Students selected an Australian coin, described it and identified what could be bought with it. For the second part of the task students were given \$1.00 to spend at the class shop and had to calculate as many different combinations of items they could buy as possible.





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Number: Money mind map



Annotations

Describes a number of features of coins that make it possible to identify them.

Traces an accurate representation of an Australian coin.

Recognises the functionality of money.

Recognises that total amounts can be made using different denominations.

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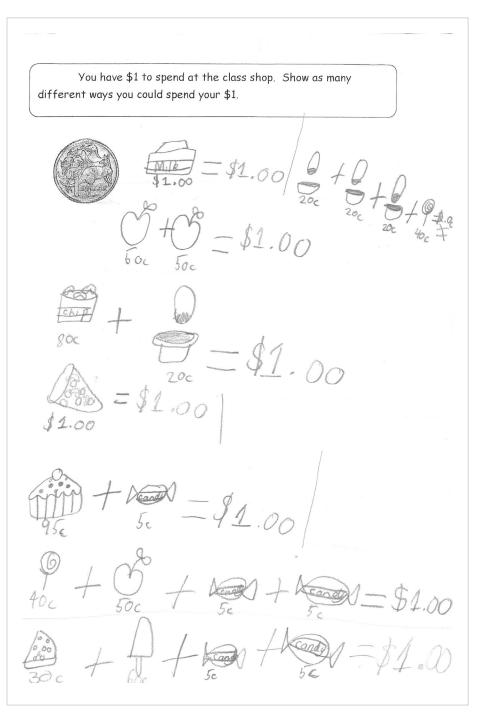


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Year 1 Above satisfactory

Number: Money mind map



Annotations

Use the symbols for plus (+) and equals (=).

Records number sentences using numerals and mathematical symbols.

Calculates eight different combinations of items that can be purchased for one dollar.

Uses a range of mental strategies and recording methods for addition involving one-and two-digit numbers.

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Geometry: 2D

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Summary of task

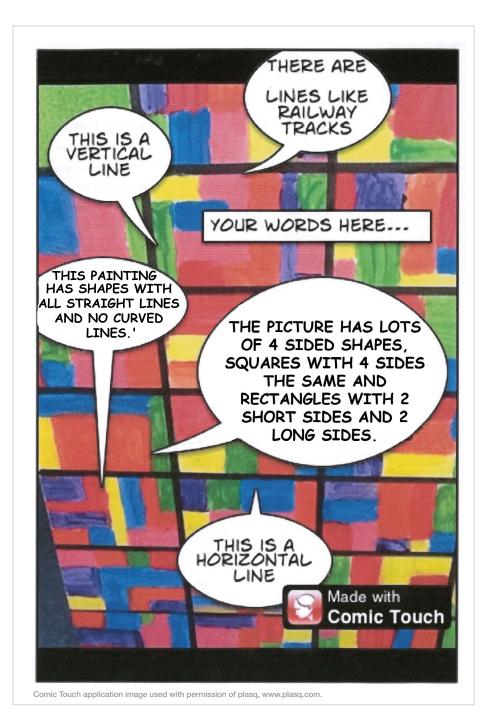
The students had completed a unit of work on two-dimensional shapes and had been taught how to use the photograph application Comic Touch to apply special effects. Students had completed an artwork for their school art show and they were given a photograph of the artwork and asked to use Comic Touch to record as many things about the 2D shapes and lines that they could. Students were given approximately 30 minutes to complete the task.





Year 1 Above satisfactory

Geometry: 2D



Annotations

Identifies parallel lines in pictures.

Demonstrates an understanding of straight and curved lines.

Describes features of two-dimensional shapes identifying features of the difference between rectangles and squares.

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Statistics: Our fruit today

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Summary of task

Students discussed what fruit they had brought to school. They looked at different ways of showing how to describe the fruit and were asked to draw the displays.



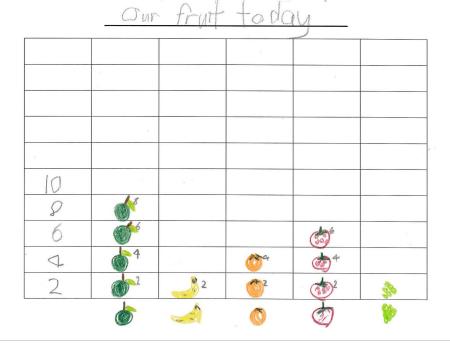
Statistics: Our fruit today

Data and Graphs

1. Investigate which fruits were brought to school today by our class for recess. Show this using tally marks in the table below.

Fruit	Tally Marks	Total
	44 11	P
		L
		4
	44	5
	Managaraya Jerringan	2

2. Show your data on a picture graph. Make sure you include all the information you need.



Annotations

Gathers data.

Tracks data using tally marks.

Records data in a table and correctly totals the tally marks.

Transfers data from a table into a picture graph using many-to-one correspondence where one picture represents two data values.

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Number: I dropped my counters

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Summary of task

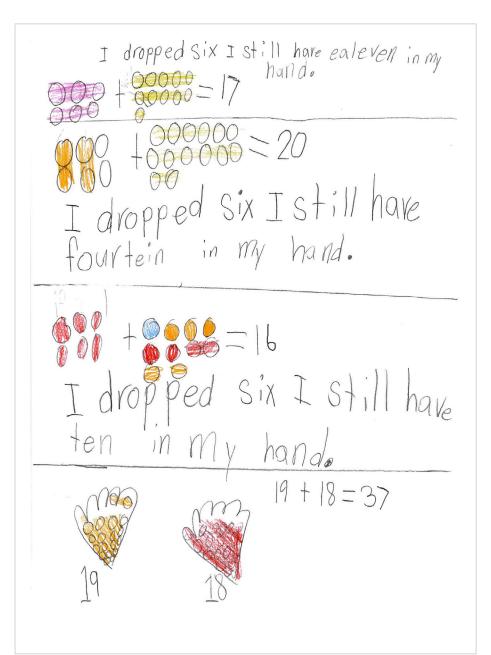
Students were given a bundle of counters to hold in their hand. They were asked to drop some of the counters and then figure out how many were on the floor and how many were still in their hand. They described their results both numerically and with a picture. Some prompts were given to those students who were unable to use any strategies to describe the number of counters they had in mathematical terms.





Year 1 Above satisfactory

Number: I dropped my counters



Annotations

Represents and solves addition and subtraction problems involving two-digit numbers using diagrams.

Recognises that together the number of counters dropped plus the number of counters in their hand gives the starting number of counters.

Writes a number sentence involving two two-digit numbers to match the problem and their diagram.





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Number: What is the number?

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Summary of task

The unit number and place value was taught in semester one and two. Students had experienced open-ended problems. Students had experienced this problem previously and understood the language of 'more', 'two-digit' and 'pattern'.

Students were given the open-ended problem: 'A two-digit number has more tens than ones; what could the number be?' Students had concrete material on the table to access if required. The teacher explained and modelled the task to the students. Students were given 20 minutes to complete the task.





Number: What is the number?

What is the NUMBER???

A two digit number has more tens than ones.

What could the number be? Show how you know your number is correct.

Can you think of other two digit numbers that have more tens than ones? Show how you know your numbers are correct.

Can you find a pattern?

Annotations

Understands partitioning of numbers using place value.

Justifies an answer.

Models numbers with diagrams showing groups of tens.

States the place value of digits in twodigit numbers.

Chooses an appropriate strategy to solve the problem.

Identifies and describes how the pattern is made.

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Number: Growing patterns

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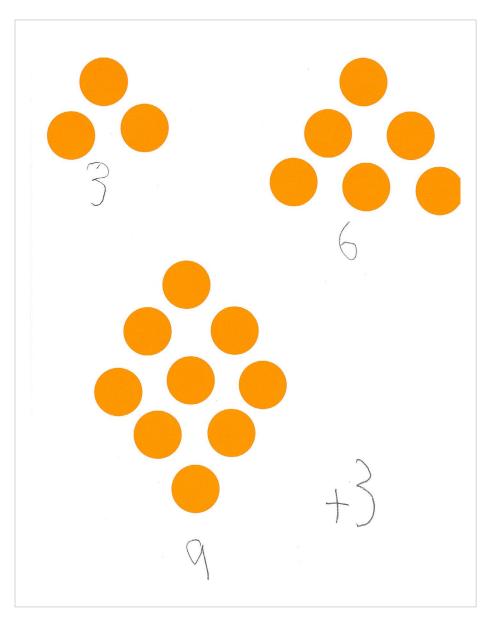
Summary of task

Students were asked to use objects to continue a given pattern of a number sequence.



Year 1 Above satisfactory

Number: Growing patterns



Annotations

Creates an increasing number pattern using objects and skip counting by 3s.

Records the number pattern using numerals.

Arranges objects into a distinct visual pattern.

Uses symbolic notation to represent a number sequence.

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Statistics: Familiar events

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Summary of task

Students had discussed things which are familiar events in their day-to-day lives. They were asked to complete a worksheet linking familiar events to display their information.





Statistics: Familiar events

lam 1. What time do you get up on school days? 8am

2. What time do you get up on weekends?

3. What transport do you use to get to school?

CAR BUS BIKE WALK

4. What time do you have dinner?

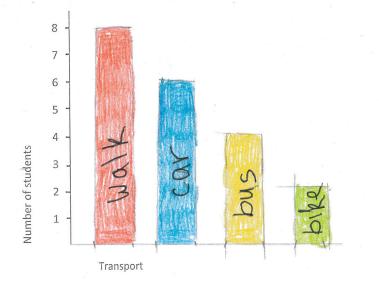
From the class results below, draw bar chart of the results. Describe how you compare with the class.

Transport	Number of students
WALK	8
CAR	6
BUS	5
BIKE	2

5. What time do you go to bed?

On the diagram colour the columns.

WALK-RED CAR - BLUE BUS - YELLOW BIKE - GREEN



Annotations

Differentiates between weekends and weekdays.

Recognises that even when travelling by car there is still some walking to be done to get from the car to the school.

Differentiates the time of events and tells the time to the half hour.

Displays data as a column graph with evenly-spaced columns of equal width which mostly matches the data in the table.

Labels the columns with the correct categories.

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Measurement: Time

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Summary of task

Students had completed tasks on telling the time. The students were individually questioned and used a clock to demonstrate their understanding of reading and writing time to the half-hour.



Year 1 Above satisfactory

Measurement: Time



Annotations

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Geometry: Direction

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Summary of task

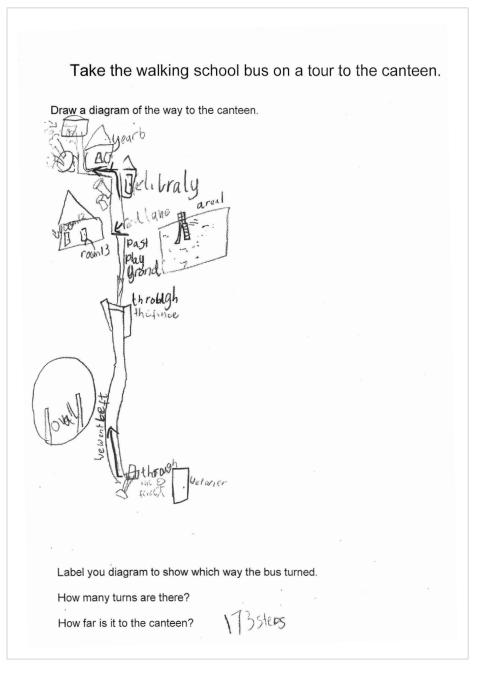
Students had discussed the language of direction. They were asked to draw a map and indicate a pathway from their classroom to the canteen. They described their pathway using the language of direction.





Year 1 Above satisfactory

Geometry: Direction



Annotations

Highlights direction of movement using arrows.

Draws a diagram of a familiar location and labels landmarks.

Uses everyday language of location to describe the route taken.

Uses the term 'left' to describe the direction travelled to a familiar location.

Identifies the distance travelled using an informal unit of measurement.

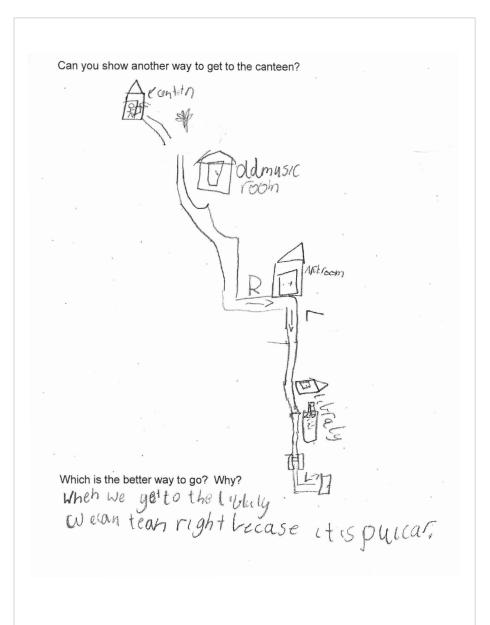
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Year 1 Above satisfactory

Geometry: Direction



Annotations

Draws a diagram, labels landmarks and highlights an alternate path.

Justifies and gives reasons about which is the better route.

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