

MATHS AND AGRICULTURE

STEM CHALLENGE

A PIEFA MEMBERS COLLABORATION



FOR
YEAR1

HORTICULTURE AUSTRALIA
HOORAY FOR HORTICULTURE

**Hort
Innovation**



Primary Industries Education
Foundation Australia



TEACHER OVERVIEW

HOORAY FOR HORTICULTURE MATHS CHALLENGE

Year: One

Outcomes:

Choose simple questions and gather responses and make simple inferences (ACMSP262).

Represent data with objects and drawings where one object or drawing represents one data value. Describe the displays (ACMSP263).

Task:

1. Show the 'introduction for students' on a projector or interactive whiteboard, reading the information as a class.
2. Ask students to raise their hand if they have a piece of fruit or a type of vegetable in their lunchbox today.
3. Use a tally to record the number of students that have each of the different types of fruit or vegetables in their lunchbox.
4. Show students the pictogram on page 1 and discuss the data displayed. As a class, answer the questions below the graph before asking students to record their answers independently on their worksheet.
5. As a class, create a tally of the students' favourite vegetables.
6. Model creating a pictogram of favourite vegetables using the data collected in the table.
7. Allow students to collect their own data about 'Favourite Fruits in Year One' using the table provided on page 2.
8. Allow students to use the 'Favourite Fruit Cut Outs' on page 3 to complete the pictogram template on page 4.
9. Upon completion of their pictogram, allow students to complete the interpreting data questions on page 2.

HOORAY FOR HORTICULTURE MATHS CHALLENGE

Introduction for students:

Horticulture is the farming of fruit, vegetables, nuts, flowers, turf and nursery products. To keep our bodies healthy, we should try to eat two serves of fruit and five serves of vegetables each day.

Think of the different types of fruits and vegetables you like to eat each day. What kinds of fruits or vegetables do you have in your lunchbox?



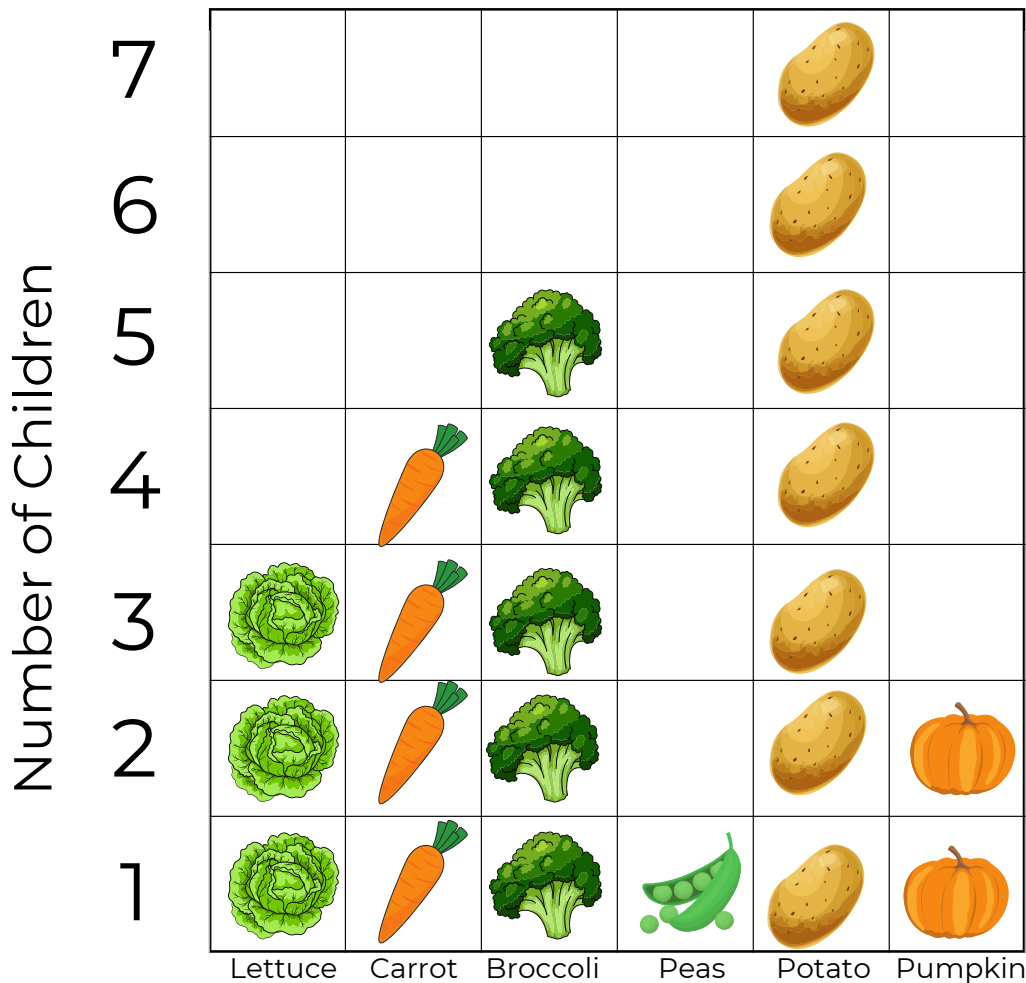
HOORAY FOR HORTICULTURE



Horticulture is the farming of fruit, vegetables, nuts, flowers, turf and nursery products. To keep our bodies healthy, we should try to eat two serves of fruit and five serves of vegetables each day.

The pictogram below shows the favourite vegetables of a Year One class. Look at the graph to answer the questions at the bottom of the page.

Favourite Vegetables in Year One



Favourite Vegetable

Interpret the pictogram to answer the questions below:

- Which vegetable is the most popular in this class?
- Which vegetable is the least popular in this class?
- How many people prefer carrots?
- How many children prefer potatoes?



HOORAY FOR HORTICULTURE



First: Create a tally of the favourite fruit of each student in your class.

Then: Cut out the pictures of the fruit to create your own Favourite Fruit Pictogram.

	Orange	Strawberry	Apple	Pear	Banana	Grapes
Tally						
Total						

When you have completed your pictogram, answer the questions below:

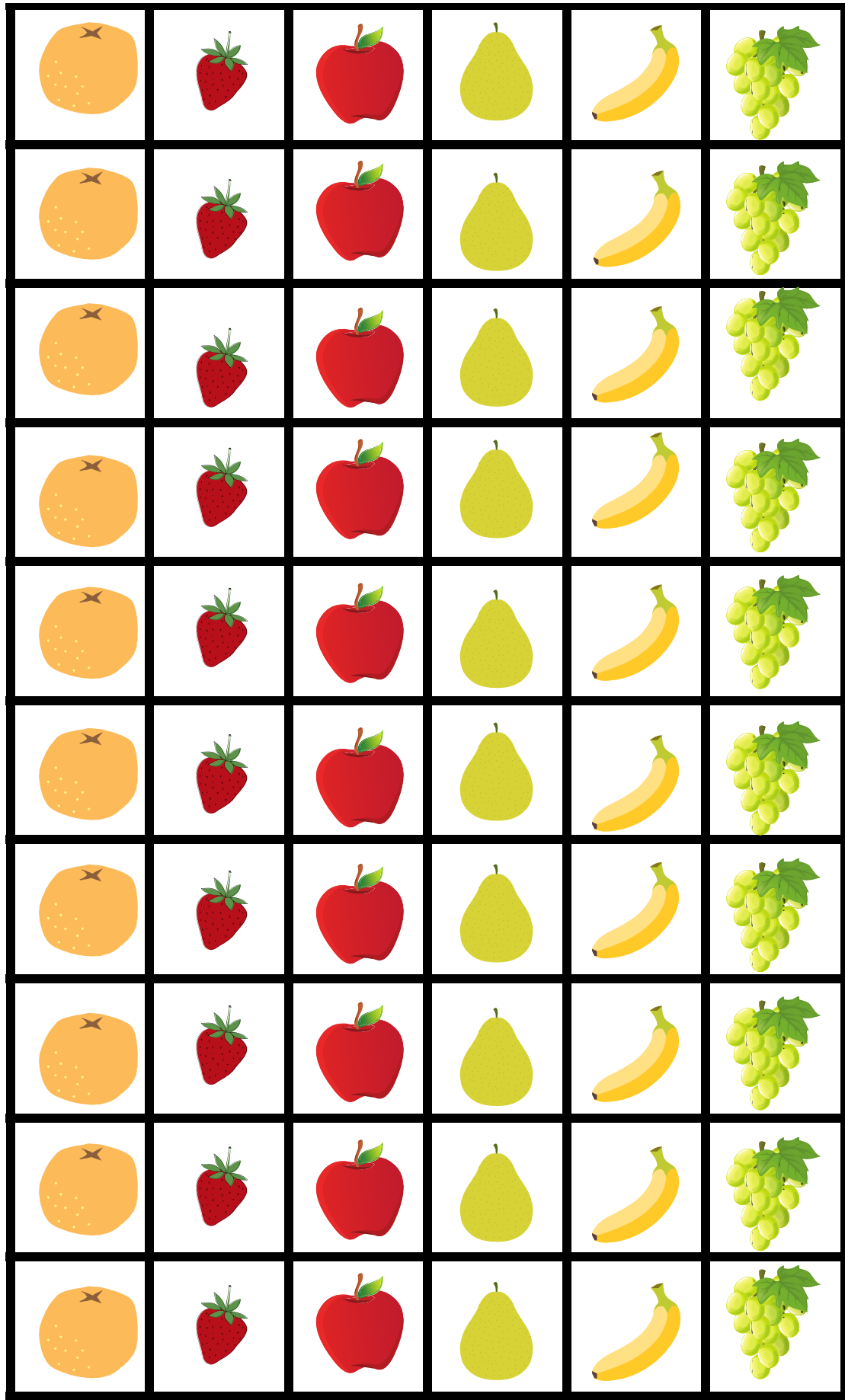
1. Which fruit is the most popular in your class?

2. Which fruit is the least popular in your class?

3. How many people prefer pears?

4. How many people prefer grapes?

Favourite Fruit Cut Outs



Which Fruit is the Most Popular in Your Class?

Number of Children

Orange

Strawberry

Apple

Pear

Banana

Grapes

Favourite Fruit