

Representing and Interpreting Data

Lesson Plan

Learning Objective

To represent data with objects and drawings and describe the data displays.

Success Criteria

- I can represent data using one-to-one correspondence.
- I can draw data in a picture graph.
- I can describe displays by identifying categories with the greatest or least number of objects.

Introduction/Context

This is the first lesson of the new topic.

Starter

Introduction to Data

- Discuss and mind map prior knowledge about data with students.
- Children can 'think, pair, share'. (Children think about what they know, discuss it with a friend, then put their hands up to share what they discussed about data.)
- Explore the data mind map, 'What Is Data?' on the PowerPoint.
- Discuss with students the importance of collecting data and examples of when we might need to collect data, e.g. number of boys and girls in schools, favourite sports.

Activity

Collecting Data

- Explain to students that they are going to collect data about the most popular type of fruit eaten at fruit break in their class.
- Discuss ways to record fruit in the classroom and introduce how to tally.
- As a class, tally the fruit the students eat on the tally table on the PowerPoint.
- Record the tally for apples, bananas, oranges, strawberries, watermelon, grapes, other.
- Discuss with the students why they might need the option of 'other' when collecting data.

Our Favourite Fruit Picture Graph

- Discuss how you can represent your class fruit in a graph. Show that each picture can represent one piece of fruit counted.
- Show the empty Our Favourite Fruit Picture Graph on the PowerPoint. Discuss the axes showing the different types of fruit and the quantity of fruits.
- Have students refer to the tally to see how many pieces of each fruit need to be put into the graph.

Key Words

Represent, interpret, data, popular, tally, picture graph, categories, display, collect

Resources

- Our Favourite Fruit Picture Graph Activity Sheet
- Representing and Interpreting Data PowerPoint

- Copy a piece of fruit from the bottom of the graph into the columns to represent the data collected.
- Discuss what the students notice about the graph.

Now It's Your Turn

- Use the Favourite Fruit Picture Graph Activity Sheet to allow children to practise recording data collected as a class and representing this on a picture graph.
- The students will then answer the questions on the sheet to help interpret the data:
 1. What is the most popular fruit?
 2. What is the least popular fruit?
 3. Are there any fruits that were eaten equally?

Plenary

Let's Share

- Ask students to bring their graphs to the floor.
- Sit in a circle and ask students to share their findings.
- Discuss how a graph can help us interpret data.