

Use data to plan a garden

Subject(s): Mathematics

Grade(s): 1–2

Key Stage: 1

Learning intention(s):

Students answer yes or no questions to gather and use data to help inform planning decisions for their garden beds.

Mapping to curriculum

Scope and Sequence Statement	How it is Addressed in the Activity
<p>Mathematics Process Skills</p> <ul style="list-style-type: none"> • MPS 1 - Describes mathematical situations using everyday/mathematical language, diagrams, symbols • MPS 1 - Explains the process and supports conclusions • MPS 2 - Applies concepts and skills to solve real-life problems • MPS 2 - Interprets the solution; checks reasonableness • MPS 3 - Classifying, comparing, sequencing, generalising <p>Chance and Data Handling</p> <ul style="list-style-type: none"> • Collect and sort data • Display data in table form • Interpret data 	<ul style="list-style-type: none"> • Students create a chart with columns, record yes/no votes, and use numbers to compare crops. • Students tally and count votes, then choose the most popular crops, explaining which were selected and why. • Students use data to decide what to plant in a real garden – applying maths to a practical, real-world situation. • Students assess popularity of crops, which indirectly asks them to make reasonable planting decisions. • Students compare crops by votes, sequence them from most to least popular, and can generalize preferences. • Students collect yes/no votes for each crop and organize them in a chart. • The chart used to record votes is a simple table. • Students count yes/no votes and identify the five most popular crops.

Lesson Instructions

This activity is a useful way to introduce students to statistics, including how to gather data and interpret that data to help inform decision making.

1. Set up a chart with three columns

You will use this chart to plan what to plant for the next season.

Add headings to the columns:

- Crop
- Yes
- No

Crop	Yes	No

2. Brainstorm different crops

In the first column, write down all the crops you could plant, based on your climate and the season.

3. Vote on crops

Ask the class if they want to plant each crop. Students vote by raising their hands for Yes or No. Write the number of Yes and No votes in the second and third columns.

4. Count the votes

See how many Yes and No votes each crop gets. Then calculate which crops have the most Yes votes.

5. Choose the top crops to plant

Pick the five most popular crops based on the votes. Use this information to decide what to plant.