

## Objective

Students will be able to collect data from the school garden and create a bar graph and/or picture graph.

## Prior Knowledge & Preparation

- Students should have been exposed to bar and picture graphs and should be able to answer simple questions about them.
- Make sure the plants are labeled in the garden.

## Activity

1. Assign groups of students to collect data from a specific garden bed.

Using the data collection sheet, groups will go into the garden to create a list of each type of plant and record the number of each with tally marks.

When collecting data, the teacher will decide if students should count the number of plants in each square foot or the number of different types of plants in a bed.

2. Groups will return to the room and create a bar graph with their data on chart paper. The bar graph should include a title, labels, and scale.
3. Each group should come up with two questions that can be answered using their graph.
4. Have all students do a gallery walk and answer the questions each group created.
5. Collect data from student graphs for a whole school bar graph on butcher paper. Create questions to ask students based on the whole school bar graph.

**Grade Level:** 3

**Subject Area:** Math

**Materials:**

School garden  
Chart paper  
Butcher paper

**Resources:**

Data collection sheet

**Standards:**

MD.3 - Represent and interpret scaled picture and bar graphs

**Collaborators:**

Lesley Kane  
Tracy Kean  
Megan Deal

## Extension

Have students create a picture graph using their data from the assigned bed or from another group's bar graph.

## Your Notes & Ideas

# Data Collection Sheet - Gardening Line Plot

Name: \_\_\_\_\_

Type of plant:	Tally: