Name \_\_\_\_\_

## ANALYZE YOUR DATA

After your investigation, it's time to look at the results. Practice by analyzing some of the Green Team's data.

## PART A: Read and Analyze

CRABGRASS GROWTH	TRAY 1 (CONVENTIONAL HERBICIDE)	TRAY 2 (VINEGAR-BASED HERBICIDE)	TRAY 3 (No herbicide)
Week 1	1.2 mm	4.5 mm	5.0 mm
Week 2	1.0 mm	3.8 mm	4.9 mm
Week 3	1.4 mm	4.3 mm	5.0 mm

- Find the central tendency (also known as the mean, median, and mode) of the weekly growth measurements for each tray.
- 2. Which plant grew the most during Week 1? How do you know?
- 3. Do you notice a pattern between the independent variable (type of herbicide) and the dependent variable (growth of weeds)? Describe it.

## PART B: Your Turn—Collect and Analyze Data

**1.** What will you need to observe and measure as you test your hypothesis?



▶ MEDIAN: This is the middle value when the measurements are put in order from smallest to largest.

▶ MODE: This is the value that appears most often in a data set.

**2.** Create a chart like the one below to record your data from each trial.

	TRIAL 1	TRIAL 2	TRIAL 3
Measurement 1			
Measurement 2			

**3.** Using your own experiment, find the measures of central tendency and look for patterns.

**4.** Circle the visual representation that will work best with your data. Now create it!

bar chart	line chart	diagram	infographic	other: