$\qquad$

## 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 <br> GROWTH | TRAY 1 <br> (CONVENTIONAL <br> HERBICIDE) | TRAY 2 <br> (VINEGAR-BASED <br> HERBICIDE) | TRAY 3 <br> (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 |

1. Find the central tendency lalso 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 ltype 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?
2. Create a chart like the one below to record your data from each trial.
MEAN: This is the
average. To calculate,
add all measurements,
then divide by how many
measurements there are.
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.

TRIAL 3

|  | 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: $\qquad$
