

ACTIVITY 3A: Teacher Support Information for “A closer look at the data”

Objectives:

- ✓ Construct graphs from authentic scientific data.
- ✓ Compare and contrast the variables in a scientific experiment.
- ✓ Distinguish between independent and dependent variables.
- ✓ Analyze and interpret graphs.

In this activity students will revisit the transformed article. This time, in addition to learning about the type of, the actual data and graphs from the study will be evaluated by students.

Students will also practice creating graphs using authentic research data. Depending on their level of previous experience, some students may struggle with interpreting graphs. Having students focus on the patterns and trends in a graph is often a good starting point for most students.

Materials:

- ✓ Transformed article
- ✓ Student Activity 3A worksheet

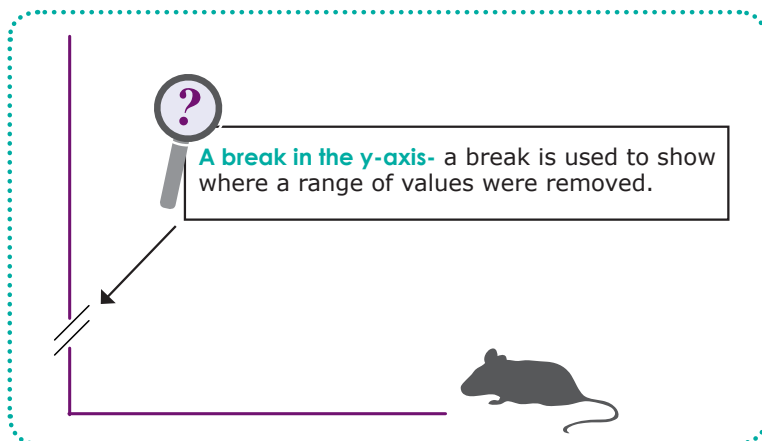
Directions:

Distribute copies of the transformed article to students. The students will copy the data from Table 1 in the article to the blank data table on the student worksheet.

After filling in the data table, students will use the data to complete the bar graph. Students may wish to color code the data on the bar graph.

Students can work independently or in small groups for this activity. They will need copies of the transformed article to complete this activity.

Encourage students to discuss their responses with each other. This is particularly important when discussing conclusions.



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