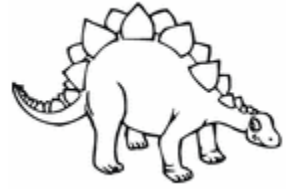




Nature of Science

Name \_\_\_\_\_



## Graphing & Analyzing Data

**Purpose:** To practice graphing data and looking for patterns, trends, or relationships.

**Background Information:** We use graphs in science to show comparisons, patterns, trends, and relationships in data.

**BAR GRAPHS** are used to compare data.

**LINE GRAPHS** show trends, especially over time, in data.

**SCATTER PLOTS** let us see relationships in data.

All graphs have some things in common:

- The dependent variable is plotted on the Y-axis (the vertical axis)
  - Units of measurement must be included
- The independent variable is plotted on the X-axis (the horizontal axis)
  - The specific and general independent variables must be included
- Scales & intervals are appropriate to the data
- Titles describe the data

Graph the data from the Magic® Grow capsule investigation:

What kind of graph will you use? (bar, line, scatter plot?)

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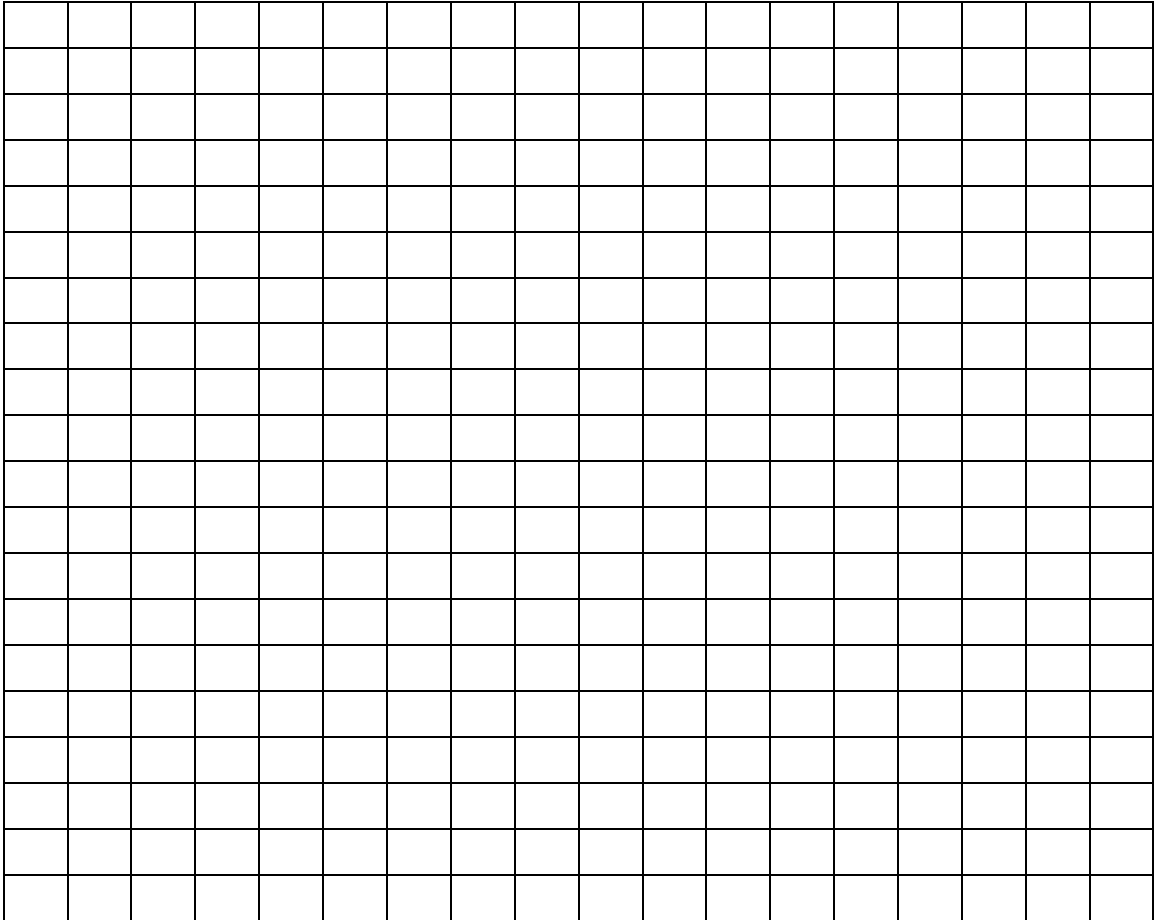
Why is this the best kind of graph to use?

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Title of graph

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*The dependent variable is plotted on the Y-axis*



*The independent variable is plotted on the X-axis*

