

**Introduction to Physical Science** ▪ 1.5 Review and Reinforce

# Graphs in Science

**Understanding Main Ideas**

Answer the following questions in the spaces provided.

1. How are line graphs used to show how two variables are related?

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2. What does a line of best fit emphasize?

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3. What does a slope tell you about changes in  $x$  and  $y$ ?

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4. Why are line graphs powerful tools in science?

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**Building Vocabulary**

Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.

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|----------------------------|--|
| _____ 5. coordinate        | a. the point on the graph where the axes cross                             |
| _____ 6. graph             | b. the graph line that runs up and down                                    |
| _____ 7. origin            | c. a line graph in which the data points do not fall along a straight line |
| _____ 8. slope             | d. a point on a graph that displays a piece of data                        |
| _____ 9. nonlinear graph   | e. a picture of information from a data table                              |
| _____ 10. vertical axis    | f. the steepness of a graph line   |
| _____ 11. line of best fit | g. a pair of numbers used to determine the position of a point on a graph  |
| _____ 12. data point       | h. the graph line that runs left to right                                  |
| _____ 13. horizontal axis  | i. a smooth line that reflects a general pattern on a graph                |