

Enrich

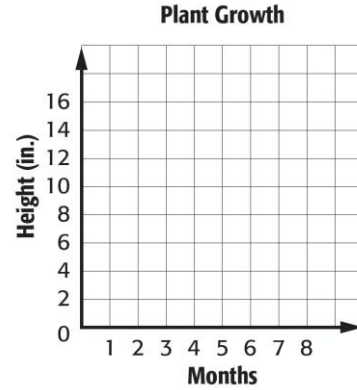
Making Predictions

A scatter plot is a useful tool for making predictions. Information or data can be plotted on a coordinate plane. Then a line that is similar to the shape formed by the points is plotted. This line is known as a *line of best fit*. Using ordered pairs on the line of best fit, the approximate constant rate of change can be found. The constant rate of change can be used to predict future values.

1. You kept track of the growth of a plant over 6 months and recorded the information in the following table.

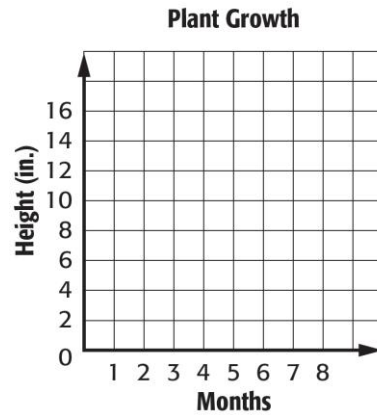
Months	1	2	3	4	5	6
Height (in.)	3	5	8	9	10	13

2. Plot the data you have collected.



3. Draw a line that matches the shape of the points plotted.

4. Find two ordered pairs on the line of best fit.



5. Find the constant rate of change of the line of best fit.

6. If growth continues to follow the same pattern, how tall will the plant be in 12 months?