

Graph 12

~ CLASS SET ~

- 1) Directions: Using the directions included below to complete the graph and the related questions.

A student studied the effect of gibberellin (a plant hormone) on the growth of corn seedlings of the same height and species. A different concentration of gibberellin in a fixed volume of water was applied to 7 groups of 10 plants each maintained under the same environmental conditions for the duration of the experiment. At the end of this period, the height of each plant was measured. The data are shown in the table at the right.

Micrograms of Gibberellin in a Water Solution	Average Height (cm)
0.00	20
0.05	40
0.10	60
0.25	70
0.50	75
1.00	80
2.00	80

Directions (1-4): Using the information in the data table

1. Write an appropriate title for this graph in the space provided.
2. Mark an appropriate scale on each labeled axis.
3. Plot the data on the grid. Surround each point with a small circle and connect the points.
4. Explain the effect on corn seedling height of increasing the application amount of gibberellin from 0.05 to 0.50 microgram.

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