

## Chapter 20 – Activity 5 - Question 1

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## Grow

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For the science fair, Nate and Phoebe decided to see if fertiliser made sunflowers grow any faster.

They planted six identical sunflower seeds into large pots.

They watered two with plain water, two with **FastGro** fertiliser and two with **Love Plants** fertiliser.

They measured the height of the sunflowers, to the nearest cm, every six days for 60 days. They wrote the results in this table.

|                          |    | Height of sunflowers (cm) |       |         |         |             |             |
|--------------------------|----|---------------------------|-------|---------|---------|-------------|-------------|
|                          |    | Water                     | Water | FastGro | FastGro | Love Plants | Love Plants |
| Time in blocks of 6 days | 1  | 7                         | 8     | 5       | 9       | 11          | 12          |
|                          | 2  | 31                        | 33    | 30      | 35      | 39          | 40          |
|                          | 3  | 55                        | 57    | 52      | 61      | 65          | 69          |
|                          | 4  | 79                        | 82    | 74      | 85      | 87          | 91          |
|                          | 5  | 104                       | 106   | 92      | 112     | 117         | 128         |
|                          | 6  | 132                       | 132   | 110     | 140     | 148         | 154         |
|                          | 7  | 158                       | 155   | 131     | 165     | 175         | 186         |
|                          | 8  | 183                       | 180   | 152     | 191     | 204         | 215         |
|                          | 9  | 189                       | 185   | 174     | 201     | 226         | 255         |
|                          | 10 | 200                       | 190   | 174     | 215     | 245         | 272         |

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Nate

I think we should draw a line graph with a line for each plant on the same set of axes as this will show the differences in the growth rates.

Phoebe



I think a bar chart with different coloured bars for each plant might show it best. Or perhaps a different line graph for each plant.

Put the information in the table into a spreadsheet and draw all three of Nate's and Phoebe's suggestions. Who do you agree with, Nate or Phoebe? Say why.