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Science Skills:

Graphing, Applying the Scientific Method, and Scientific Writing Example #2 - Answers

Daphnia are small crustaceans that are often called water fleas. They are an important part of the food chain, as they serve as food for many other organisms found in aquatic ecosystems. They are small, but are visible with the naked eye. They are often placed under a microscope for study. One feature that makes the Daphnia a good organism for lab experiments is the fact that its beating heart is easily visible when observed under a microscope.

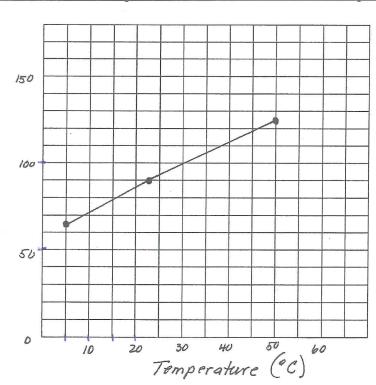
An experiment was conducted to test the effect that different temperatures have upon the heart rate of Daphnia. The scientist placed the Daphnia in the chamber of a depression slide filled with water. The chamber was then sealed. The temperature of the water inside the depression slide chamber was manipulated by placing the slide, one after the other, in small dishes containing: (1) crushed ice, (2) room temperature water, and (3) water that had been warmed. As the Daphnia was being subjected to these three different temperatures, it was being observed under a microscope and the number of heart beats per minute was recorded.

Temperature	5 °C	23 °C	50 °C
Heart Rate (Number	65 beats / min	90 beats / min	125 beats / min
of beats per minute)			

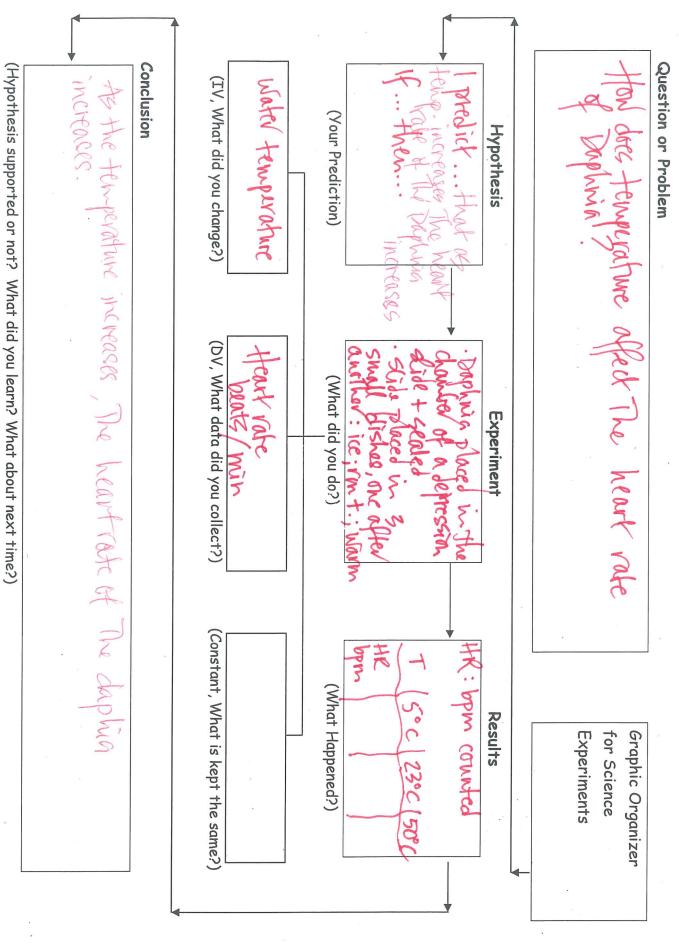
Graph these results on the grid provided below:

Title: The Effect of Temperature on the Heart Rate of Daphnia

Number g Beats per minute



The Scientific Method



The Scientific Method

