Science 8

Gummi Worm Lab

Name:_____
Date:_____
Block:_____

Purpose: To investigate the effects of distilled (pure) water and salt water on Gummi Worms over 48 hours.

Procedure:

1.)Label 2 beakers with your names and either 'Distilled Water' or 'Salt Water'. Fill each beaker about half way with one of the 2 liquids.
2.)After measurements are recorded below, place one worm in each beaker.
3.)Measure the worms after about 48 hours. (Next class).

Observations:

Predictions

*After 48 hours,I predict that the worm in the distilled water will be_____.
(smaller or bigger)

* After 48 hours,I predict that the worm in the salt water will be _____.
(smaller or bigger)

Data Table: /5

Time (Hours)	Colour	Length (mm)	Width (mm)	Height (mm)	Mass (g)	Volume (mm^3)
Salt water 0 hours						
Salt Water 48 hours						
Distilled Water 0 hours						
Distilled Water 48 hours						

Graph: Create a double bar graph of mass and and a double bar graph for volume. /8

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Discussion:

1.) In your own words describe what is meant by "OSMOSIS". /1

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Use these facts to help answer the following;
Distilled water = 100% water, salt water = 20% water, Gummi Worm = 30% water.

1.) Use a diagram to show why the Gummi worm grew sooo large after being in the distilled water. Include the % of water and the direction the water moved. /1

2.) What happened to your worm after it spent time in the salt water? Explain why this occurred. /1

_____

_____

3.) Suggest what might happen to the Gummi Worm if we used tap water instead of distilled water. /1

_____

_____

4.) What is meant by the term DIFFUSION? /1

_____

_____

5.) Provide a real life situation (not the Gummi Worm Lab) where you have experienced diffusion. /1

_____

_____

Conclusion: /1

In this lab I learned _____ and

_____.

(Tell me 2 Scientific facts you learned from doing the lab)

/7