Date: _____ Name: _____

Gummy Bear Osmosis

This activity was created by Sophia.

Osmosis the movement of water through a semi-permeable membrane, from an area of low solute concentration to high solute concentration. Gummy bears are like a solute (they are sugary, with a very low concentration of water inside) and have a semi-permeable membrane, which is why they work so great for this experiment!

MATERIALS

- 3 cups
- Gummy bears
- A spoon of salt
- Vinegar
- Water

1. Prepare your mixtures. Fill one cup with water, one cup with water and salt, and one cup with vinegar. Place each cup on the paper attached below to keep the solutions separate so you know which solution is which.

2. Put one gummy bear in each solution, and leave one on the side for comparison afterwards (this is your control gummy bear).

3. Write down your hypothesis here. What do you think will happen to the gummy bears in each solution?

4. Leave the gummy bears in their solutions over night and check back in the morning.

5. Now you may take the bears out of their solutions and put them side by side to observe. What do you observe? (Hint: compare the bears from the solution to the bear you kept on the side)

WATER **SALT WATER** **VINEGAR** **CONTROL**

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