#### Gummy Bear Osmasis Lab

#### Introduction: What is Osmosis?

Osmosis is the diffusion of water malecules from a liquid with a low solute concentration (where there are many water malecules) to an area with a high solute concentration (where there are fewer water malecules) across a selectively permeable membrane. A selectively permeable membrane allows some molecules to pass through but stops others. These membranes can be found in our trady cells.

# Materials Gummy bears Gups/beakers Water, soit, soop, sugar, vinegar Paper towels Spoons (for measuring) Weighing scales/balance



#### Proposed variety

- Take four gummies of the same color and similar size. Record their weight on the scale.
   Be sure to tore the scale with the paper towel before weighing the gummy bears in grows.
- 2) Take four identical cups and put one gummy bear in each cup. Fill one cup with 100mL of water, one cup with 100mL of water with a tablespoon of salt, the third cup is your choice (100mL of water with a tablespoon of sugar, 100mL of vinegar, or 100mL of water with a tablespoon of soap. Leave the fourth cup empty with just the bear in it, this will act as our control group.
- Label each oup, put your names/group number on the side of the cups with a Sharple and set aside for 24 hours.
- 4) The next day, take the bears out of the cups as corefully as possible and pat the gummy bears dry with a paper towel.
- 5) Weigh all of the bears and record your results in the data table.
- 6) Calculate the percent mass change of the bears in the data table below (hint: To find out the percent mass change, you divide the weight gained by the start weight and multiply by 100.

#### Pre Lab Questions

- I) What do you predict will happen to each one of the gummy bears?
- 2) What is the third liquid you would like to test?
- 3). How could this possibly relate to the human body?

# **Gummi Bear Basketball Answer Key**

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