**Osmosis at Home Experiment**

You will use simple kitchen products to demonstrate and explain osmosis at home!

Purpose: To demonstrate and explain what happens when materials move across a semi-permeable membrane.

**Materials:**

A potato, salt, water (if you have distilled water, that kind is best), a couple of drinking glasses.

**Procedure:**

* Fill two glasses with water
* In one of the glasses add 2-3 tablespoons of salt, and stir it in
* Slice up a potato into French fry-like pieces
* Make your observations on these pieces: pay attention to color, how flexible it is, smell, etc.
* Take a guess about how you think these slices might change by putting them into the different types of water
* Dunk the pieces in the water, and then let them sit overnight in it
* Remove the pieces onto a plate and make your final observations

Results:

Describe and sketch what the potato slices look like BEFORE you placed in them in water in the space below.

Describe and sketch what the potato slices look like AFTER soaking overnight in water in the space below.

Questions:

1. Explain what happened to the potato slices in the salt water.
2. What process occurred? Explain this process in detail.

Further Experiments: Try the following experiments and describe the results below.

1. Repeat this process with another vegetable and/or fruit.
2. Test whether or not temperature effects the results.

Results:

a.

b.