

GUMMY BEAR OSMOSIS

Osmosis is the process by which water moves across a semi-permeable membrane, from an area where there's a high concentration of water molecules to an area where there's a low concentration of water molecules.

SUPPLIES:

•Gummy Bears •Glass or Clear Jar •Ruler •Water •Timer •Paper & Pencil •Spoon •Kitchen Scale

1. Select 1 gummy bear to act as the **"CONTROL"**. Measure it with a ruler and record it's size. Sit it aside on a plate and don't do anything else to it.
 - The **"CONTROL"** in a science experiment is a comparison sample of the materials you're using that you don't experiment on.
2. Place 1 gummy bear in a glass of water.
3. Observe the gummy bear over time and write on your paper what happens to it. You might like to set a timer in intervals of time and write down the appearance of the gummy bears after 10, 30, 60 minutes. Then 2 hours, 4 hours and 24 hours. Set an allotted time for your experiment; our intervals are just an example.
4. Carefully take the gummy bear out of the water with a spoon at each time interval. Measure it with a ruler, recording it's size on your paper, weigh it if you'd like to as well. Carefully place it back in the water.
5. After you have left your gummy bear in the water for the allotted time (in our experiment 24 hours), carefully remove it from the water and set it near the **"CONTROL"** gummy bear.

NOTE:

- What do you notice about it's appearance?
- How has the gummy bear in the water changed?
- Has the **"CONTROL"** gummy bear changed?
- What was the final size difference.
- Was there a weight difference?

