

Vocabulary:

1. Concentration
2. Diffusion
3. Osmosis
4. Membrane
5. Selectively Permeable
6. Selectively Permeable Membrane
7. Transport
8. Active Transport
9. Passive Transport
10. Polymer: A huge molecule made of many repeating units.
11. Matrix: A complex three dimensional a structure similar to a cage with many compartments.

Hypotheses: Circle your choices to create your hypotheses (2 points)

1. If the H₂O concentration in tap water is (**higher** , **lower**) than the H₂O concentration in a Gummi Bear, then Gummi Bears placed in tap water will (**increase**, **decrease**, **remain the same**) size. Circle your answer.
2. If the H₂O concentration in distilled water is (**higher** , **lower**) than the H₂O concentration in a Gummi Bear, then Gummi Bears placed in distilled water will (**increase**, **decrease**, **remain the same**) size. Circle your answer.

Materials: for pairs of students

- 2- 50 or 100 ml. beakers
- Masking tape
- permanent marker
- 2 - plastic forks or small sieves
- Waxed paper or paper plates
- 2 - Gummy Bears (different colors)
- distilled water
- tap water
- saturated salt solution (6 oz per cup)
- 2 - centimeter rulers

Safety Considerations:

There are no safety hazards with materials used in this experiment. The filters may become moldy after storage for several days or more. If that occurs, they should be disposed of in the trash.