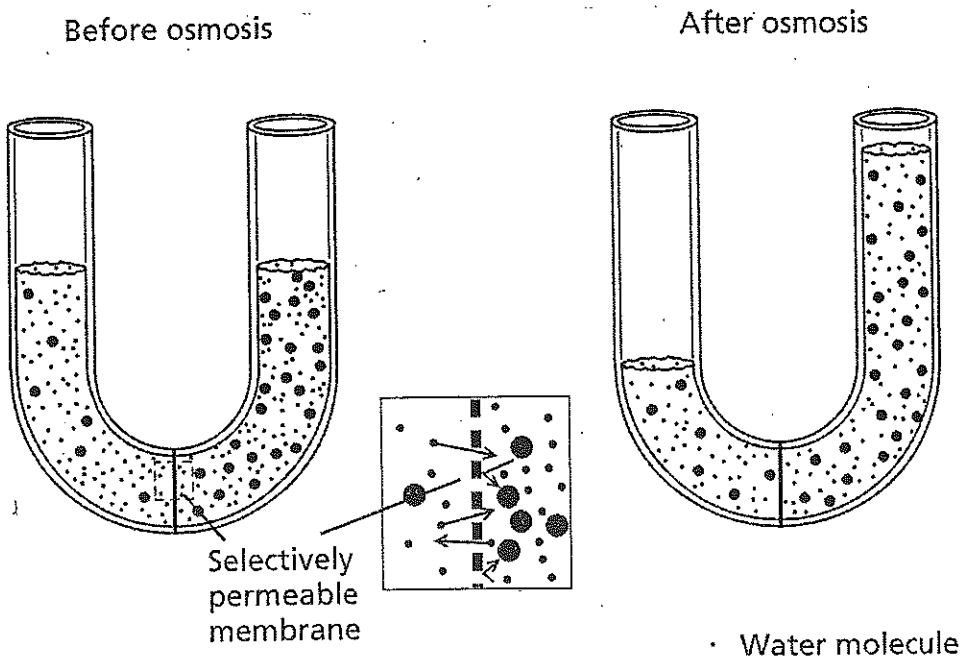
Name Date Class

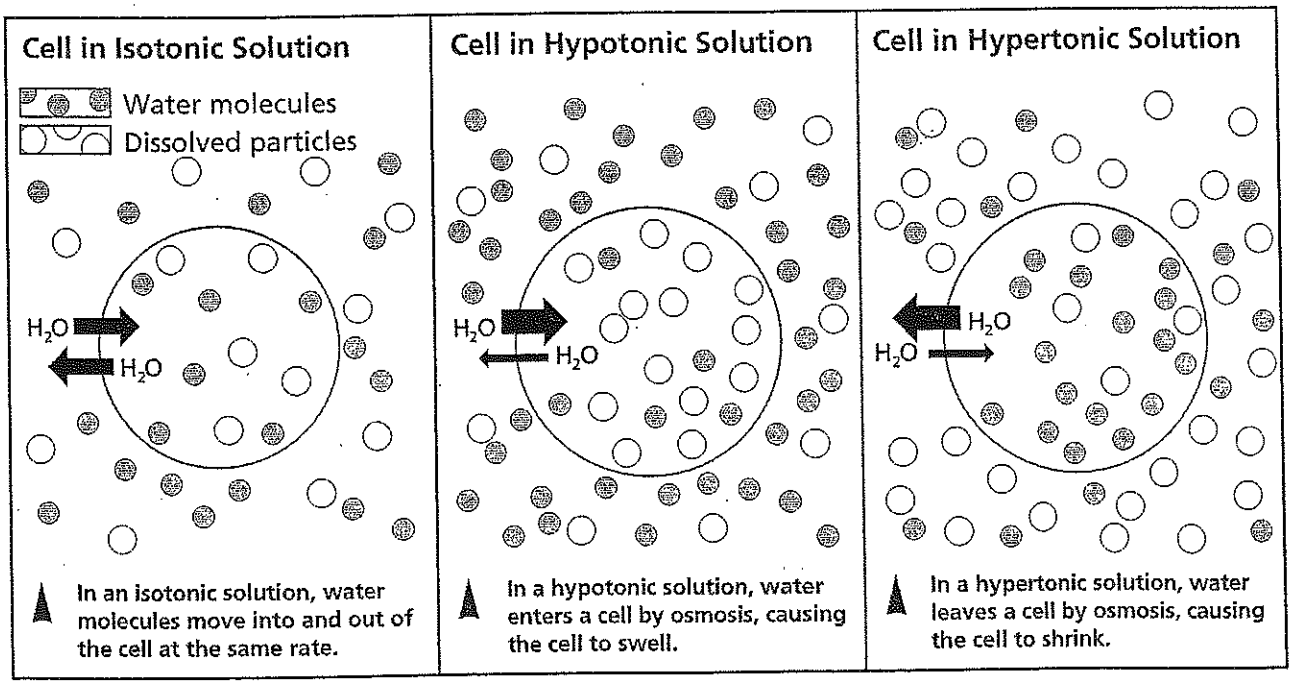
Master 8

Osmosis Worksheet #2

Basic Concepts

Use with Chapter 8, Section 8.1





Name Date Class

Worksheet 8

Osmosis Worksheet #2

Basic Concepts

Use with Chapter 8, Section 8.1

1. Look at the U-shaped tube at the top of the transparency. Why did the number of water molecules on each side of the membrane change, whereas the number of sugar molecules stayed the same?

2. How does the plasma membrane of a cell compare with the membrane in the U-shaped tube?

3. Explain the behavior of water molecules in the isotonic solution.

4. Does osmosis occur if a cell is placed in an isotonic solution?

5. Why does water enter a cell that is placed in a hypotonic solution?

6. What happens to the pressure inside a cell that is placed in a hypertonic solution?

7. What can happen to animal cells when placed in a hypotonic solution? Explain.

8. What causes a plant to wilt?