KEY CONCEPT Materials move across membranes because of concentration differences.
Passive transport does not require energy input from a cell.

- Molecules can move across the cell membrane through passive transport.
- There are two types of passive transport.
  - diffusion
  - osmosis
Diffusion and osmosis are types of passive transport.

- Molecules diffuse down a concentration gradient.
Diffusion and osmosis are types of passive transport.

- Osmosis is the diffusion of water molecules across a semipermeable membrane.
Diffusion and osmosis are types of passive transport.

- There are three types of solutions.
  - isotonic
  - hypertonic
  - hypotonic
Some molecules can only diffuse through transport proteins.

- Some molecules cannot easily diffuse across the cell membrane.
- Facilitated diffusion is diffusion through transport proteins.