Chapter 7:

Membrane Structure and Function

What type of molecule crosses a cell membrane the fastest?

Size	Polarity	Affinity for Water	Ionization
<mark>Small</mark>	Polar	Hydrophilic	lonic
Large	<mark>Nonpolar</mark>	Hydrophobic	<mark>Nonionic</mark>

CO2 fits all of these characteristics, so it is often transported across cell membranes.

What happens to animal and plant cells when they are placed in various solutions?

	Hypotonic	Isotonic	Hypertonic
Animal	Lysed	Normal	Shi kaled
Plant	Turgid	Flacoid C	Plasmolysed

If a human drinks salt water, their cells vill surivel

Tonicity - the ability (2) Solution to make cell gain or lose water

Facilitated diffusion is passive transport (no energy needed) aided by proteins.

- Aquaporins facilitate water diffusion.
- Ion channels open/close in response to stimulus.

Exocytosis - transport vesicles migrate to the membrane, where they fuse with it and release their contents

Endocytosis - the cell takes in macromolecules by forming vesicles from the plasma membrane