

Osmosis Gizmo- Prior Knowledge Questions and Gizmo Warm-Up Questions **Answers**

Prior Knowledge Questions:

1. No, you should not drink the water from the ocean. Ocean water has a high level of salt and the human body is not designed to process this high level of salt. In fact, the high level of salt will cause the body's cell to lose water (dehydrate) via the process of osmosis (what we are exploring in this gizmo).
2. Unless it is a species of plant that evolved and adapted to saltwater conditions, once again the plant would most likely wilt (dehydrate) and potentially die. This again is due to the plants' cells (central vacuole) losing water through the process of osmosis.

Gizmo Warm-Up Questions:

1. The green solvent particles can freely pass through the cell membrane (they are small enough to do so).
2. The purple solute particles cannot pass through the cell membrane (they are too large to do so).
3. Once you "reset" the gizmo and click "play", the cell (represented by the pink box) increases in size.