

Osmosis & Diffusion Worksheet:

1. **Y** or **N**: Is water always able to diffuse through a cell's selective permeable membrane?
2. **Y** or **N**: Are solutes always able to diffuse through a cell's selective permeable membrane?
3. The movement of molecules across a cell membrane against its concentration gradient is called _____.

Below are animal cells placed in beakers of various concentrations

For each beaker:

- A. **Draw** an arrow to show which way the water would move by osmosis.
- D. **Draw and label** what would happen to the cell as a result of diffusion/osmosis (shrink, swell).
- E. **Name** the type of solution (hypertonic, isotonic, hypotonic).
- F. **If** there are any missing percentages, **fill** them in.

For cells 10-18, the particle size of the solute is not able to diffuse through the semi-permeable membrane.

1.	2.	3.
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> % H₂O 10% solute </div> </div> <div style="margin-top: 10px;"> % H₂O 20% solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> % H₂O 40% solute </div> </div> <div style="margin-top: 10px;"> % H₂O 30% solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> 75% H₂O % solute </div> </div> <div style="margin-top: 10px;"> 80% H₂O % solute </div>
4.	5.	6.
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> % H₂O 45% solute </div> </div> <div style="margin-top: 10px;"> % H₂O 60% solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> 60% H₂O 40% solute </div> </div> <div style="margin-top: 10px;"> 60% H₂O % solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> % H₂O 10% solute </div> </div> <div style="margin-top: 10px;"> % H₂O 10% solute </div>
7.	8.	9.
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> %H₂O 15% solute </div> </div> <div style="margin-top: 10px;"> 60% H₂O % solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> %H₂O 35% solute </div> </div> <div style="margin-top: 10px;"> % H₂O 20% solute </div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: left; padding: 2px;"> 90% H₂O % solute </div> </div> <div style="margin-top: 10px;"> 35% H₂O % solute </div>

Diffusion And Osmosis Lab Answer Key

CH Cherryholmes



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