

AP Daily Video 2.7 Video 1 Tonicity and Osmoregulation

1. What is osmosis?
2. Water is a polar molecule, so how do large quantities of water get across the phospholipid bilayer?
3. Explain the difference between a **solute** and a **solvent**.
4. The total solute concentration in a solution is called _____
5. What is tonicity?
6. How are water concentrations and solute concentrations related to each other?
7. Water diffuses from a _____ environment into a _____ environment.
8. Explain how water moves in a dynamic equilibrium.
9. In plant cells, environmental hypertonicity results in _____, which results in water _____ the cell.
10. In plant cells, environmental hypotonicity results in _____, which results in water _____ the cell.
11. Explain why a plant cell does not lyse/explode when in environmental hypotonicity.
12. In animal cells, environmental hypertonicity results in a cell that is _____
13. In animal cells, environmental hypotonicity results in a cell that is _____
14. How does a paramecium avoid lysis in a hypotonic environment?