Diffusion and Osmosis Activity

Name: _____ Class: _____

1. Use the phrases below to fill the Venn diagram comparing osmosis and diffusion.

does not need a partially permeable

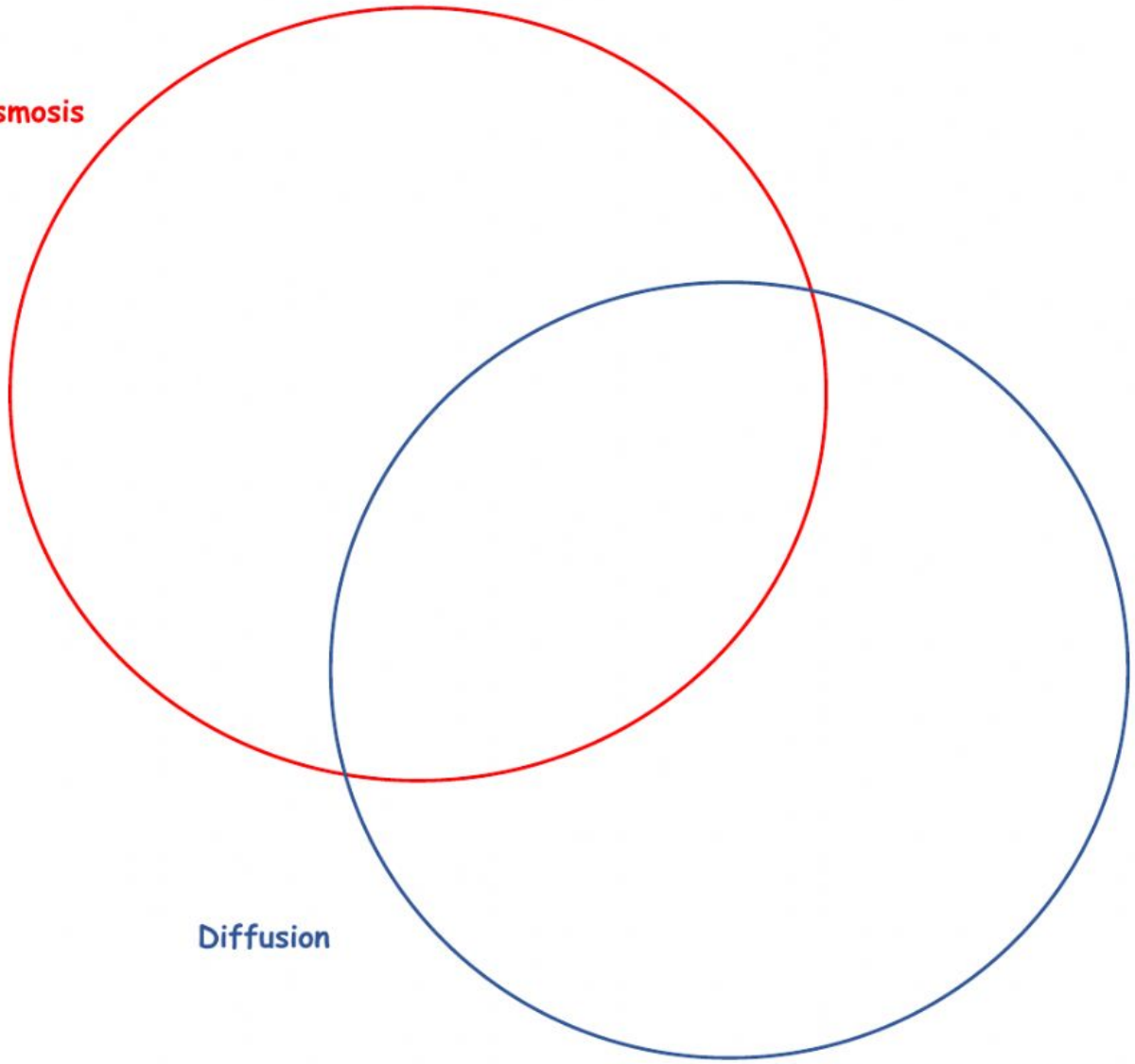
moves through a partially permeable membrane

movement of water molecules only

equalize concentrations of two solutions

movement of any very small particles

movement from high to low concentration



2. Which type/s of transfer do the statements below refer? Write **YES** or **NO** in the boxes.

	Diffusion	Osmosis
A substance moves from an area of high concentration to an area of low concentration		
Can happen in living cells		
A substance moves randomly and evenly spreads out		
The movement does not require energy and is caused by random movement of individual particles		
Only water is involved in this type of movement		
Water moves from a less concentered solution to a more concentrated solution		

3. Write **TRUE** or **FALSE** for each statement

a) Osmosis is the movement of water and sugars. _____

b) Diffusion is the movement of any small particle (solid, liquid or gas) from a high concentration to a low concentration. _____

c) Both diffusion and osmosis requires a lot of energy to occur. _____

d) Osmosis requires a partially permeable membrane. _____

e) A partially permeable membrane allows all size substances to pass through. _____

4. Do the following statements refer to **DIFFUSION** or **OSMOSIS**?

a) Sue's plant looked dead but when she watered it, it sprang right back up. _____

b) The girl passing you on the road put on too much perfume this morning. _____

c) Yum! That smells good. Mommy is cooking rice and peas and chicken. _____

d) You put raisins to soak in wine and they swell up. _____

e) Mark took off his shoes in class again. The teacher is holding her nose. _____