

DIFFUSION WORKSHEET

Complete the statement below with the correct words.
Ensure that you spell the words correctly or they will be registered as incorrect.

A. Diffusion is the movement of particles from an area of _____ concentration to an area of _____ concentration.

B. Read the following statements below. Select YES if the statements are true and NO if the statements are FALSE.

1. Diffusion requires energy
2. Particles move toward areas that are more concentrated.
3. Particles move from very concentrated areas to less concentrated areas until they reach equilibrium.

4. Equilibrium means that the particles are evenly distributed.
5. Substances can move into and out of cells through diffusion.
6. An area of high concentration has few particles and the there is no crowding of particles.

C. *Which of the following statements are examples of diffusion? Select Yes if the statement describes diffusion and NO if the scenario is not an example of diffusion.*

1. You smell the coffee that your father is making in the kitchen.
2. You heat salt and water and after some time, there is only salt in the pan.

3. After opening a can of soda, all the carbon dioxide bubbles escape so the soft drink is flat.

4. After lighting a cigarette, the smoke spreads to all parts of a room.

5. Plants use energy to take up minerals from the soil into the roots.

D. Which of the diagrams below represent diffusion?

