Equilibrium/Diffusion Questions Name_____

1) Explain why the air in any particular room will always be in spatial equilibrium. Why don't you ever walk into a room and find all of the air molecules bunched up on one side?

2) Molecules are constantly in motion, so how do you know when a substance has reached spatial equilibrium?

3) In biology you learned that and water will move from areas of high concentration to low concentration. How does the water know where to go? Explain the process by which the concentrations will reach equilibrium.

4) A dynamic equilibrium is achieved when rates for opposing processes are equal. For example, the population of a country with closed borders would reach an equilibrium when the death rate equals the birth rate. Equilibriums exist everywhere in nature and human society. Describe at least one other dynamic equilibrium.