**Diffusion**

**Diffusion is**

**Concentration is**

Draw ten particles in:

a space with HIGH concentration a space with LOW concentration

Examples of Diffusion:

**Membranes:**

How do cell membranes know what to let in or out of a cell?

Membranes that let only some things through are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Let’s look at some examples.

A cell is sitting in some water that has lots of nutrients in it. The cell has recently used most of its nutrients. Show what changes and movement might happen using diffusion.

A cell has lot of nutrients, and carbon dioxide waste. It is sitting in a liquid that has many large protein particles as well as lots of nutrients. Show what movement will occur using diffusion.

When there is an equal concentration of a substance throughout the system it is said the system is at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

When at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ particles will still pass through the membrane, but will go through both ways at the same rate.