Diffusion and Active Transport Note Taking Sheet

Define Terms

ATP:

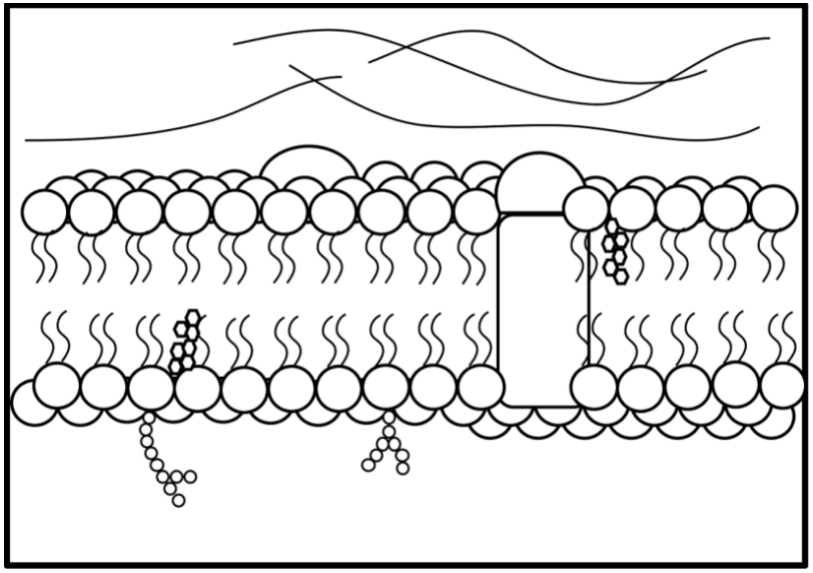
Active Transport:

Concentration Gradient:

Diffusion:

Plants love water. In fact, without water and nutrients the plant would not survive. So how does the plant receive the nutrients it needs to survive?

_____.



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The function of a cell membrane is to regulate what enters and leaves the cell and also provide protection and support. It is composed of a double lipid bilayer called a lipid bilayer and is semipermeable (only certain things go in and out). The membrane is made of phospholipids, which have a head and a tail.

The plant roots have tiny hairs that absorb water through the process of passive diffusion. Explain what this means:

_____

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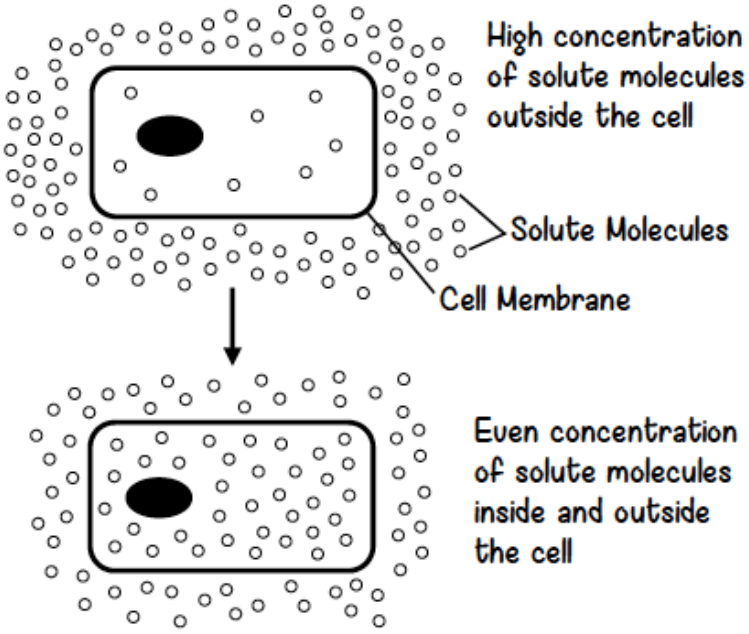

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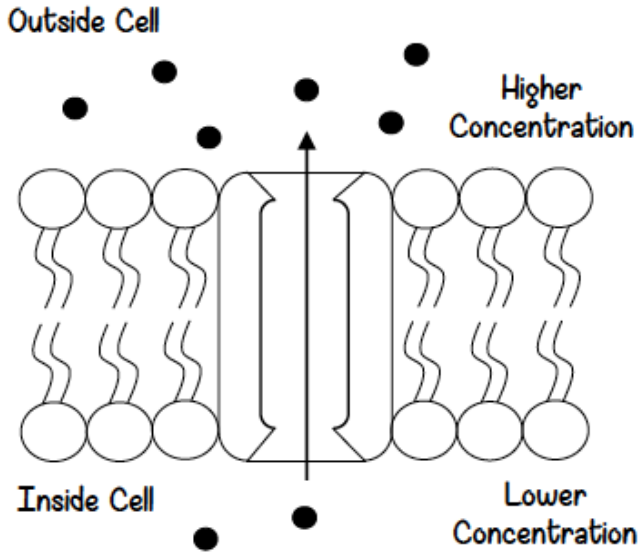

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Cells sometimes move materials in the opposite concentration direction (low to high). This is called active transport and requires energy.

Where do plants get their energy from? _____.

How does the process of active transport support plants?