

Grade 8 Cell Unit – **Cell Processes Worksheet**

Name: _____ Class: _____ Date: _____

From the textbook, look up the following terms and write an explanation. Draw a diagram if that helps.

Cell membrane and selectively permeable membrane (pg. 120):

Diffusion and Osmosis (pg. 121 – 125):

Turgor Pressure (pg. 125 - 126):

Endocytosis/Exocytosis (pg. 132 – 133):

Use the terms above to explain the following situations:

1. Golf courses make use of fertilizers to keep the grass green and healthy. Using your knowledge of osmosis, explain why applying too much fertilizer might not help the golf course stay green.
2. In hospitals, patients sometimes receive fluids by intravenous injection. Doctors choose a salt solution and never plain water to inject into humans. You know blood is composed mainly of red blood cells. Use your knowledge of osmosis to explain why doctors make this choice.
3. You take a summer vacation by the ocean in P.E.I. You decide to bring back some ocean plants for your fish tank back home. After a week or two, you notice that the plants are not doing so well in your freshwater tank. Use your knowledge to propose a reason.
4. Betty came home from school and looked in the fridge for a snack. She loves celery, but it was wilted. She placed the celery in a tall glass filled with water and left it for a while. Why did she do this?
5. Many Schools have a “no scents policy” because many people have sensitivities to the odours of perfumes and colognes. Why is it not OK to spray perfumes and colognes just by your locker away from people with sensitivities?
6. Many towns salt their roads in the winter. Why is this damaging for plants that are along the roadsides and waterways?
7. How does a dehydrator work for drying fruits? Why does this help to preserve fruits and vegetables?