

Assignment: Semi-Permeable Membrane Demo

Mrs. Côté

Name: _____

Biology 11

15 marks

Directions: Complete the following questions on your own piece of paper on an individual basis. This assignment is to be completed and passed in by _____.

1. Explain how each of the items in the demonstration were used to relate to a real cell: plastic baggie, starch solution, iodine solution. (3)
2. Based on your observations explain which substance(s) were permeable to the cell (plastic baggie)? Explain how you know. (2)
3. What type of membrane transportation did the demonstration show? Explain how this was shown and what occurred to cause this to happen (note: indicate the concentration gradient). (3)
4. In the demonstration is the cell (plastic baggie) semi-permeable? Explain. (2)
5. What would happen if the iodine solution were placed in the baggie and the starch solution were placed in the beaker? Be detailed in your description. (2)
6. Make a final apparatus sketch of the beaker and baggie showing the end result of the demonstration. Make sure to indicate the direction of substance movement that occurred during the demonstration at the bottom of the diagram. (3)

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