

Name: _____ Date: _____ Period: _____ BIN: _____

Post Lab Questions: Passive Transport Diffusion Lab

When providing the best possible answer to the following questions please apply all learned scientific techniques and procedures, do not use abbreviations, use proper scientific terminology, show work for all mathematical calculations, use all significant figure and scientific notation rules, apply appropriate writing strategies, and note that at all times spelling counts. Your ability to meet these and all established classroom expectations, including labeling of BINs, providing heading information, and your ability to follow directions may be included in computation of grade.

Post Lab Questions:

1. What type of macromolecule is starch? _____
2. Define diffusion.
3. Define dialysis.
4. Why do you think this material is called dialysis tubing?
5. At the beginning of the experiment was the tubing or the beaker more concentrated in starch?
6. At the beginning of the experiment was the tubing or the beaker more concentrated in iodine?
7. At the beginning of the experiment was the tubing or the beaker hypertonic in regards to the iodine solution?
8. At the beginning of the experiment was the tubing or the beaker hypertonic in regards to the starch solution?
9. Molecules tend to move from areas of _____ concentration to areas of _____ concentration during passive transport.

10. If the tubing was permeable to starch, which way would the starch move, into the tubing or out of the tubing?
11. If the tubing was permeable to iodine, which way would the iodine move, into or out of the tubing?
12. If the tubing was permeable to iodine, what color would you expect the solution in the tubing to turn?
13. If the tubing was permeable to iodine, what color would you expect the solution in the beaker to turn?
14. If the tubing was permeable to starch, what color would you expect the solution in the tubing to turn?
15. If the tubing was permeable to starch, what color would you expect the solution in the beaker to turn?
16. Based on your observations, which substance moved, the iodine or the starch?
17. Which substance(s) was the dialysis tubing permeable to?
18. Which substance(s) was the dialysis tubing not permeable to?
19. How did you determine this?