

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

Cell Membrane “Check Your Outline” Worksheet

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 S.E.E.C. 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.

1. The cell membrane forms a _____
and its function is to _____

2. What are the 3 parts of a phospholipid?

a. _____

b. _____

c. _____

3. Please draw a phospholipid and label the 3 parts.

4. Which part(s) form the head? _____

5. Which part(s) form the tail? _____

6. Which part, the head or tail, is polar? _____

7. Hydrogen bonds form between the _____ of the phospholipid and
_____.

8. The cell membrane arranges itself in layers (called a bilayer). Explain why this happens.

9. A cell membrane is made up of more than just lipids. List the 3 other types of molecules found in a cell membrane and explain the function of each.

a. _____ - _____

b. _____ - _____

c. _____ - _____

10. What does the fluid mosaic model explain? _____

11. What does the word “fluid” imply about the model? _____

12. What does the word “mosaic” imply about the model? _____

13. The cell membrane has the property of selective permeability. What does this mean?

14. Selective permeability enables a cell to maintain _____ in spite of the unpredictable, changing conditions outside the cell.

15. Define Homeostasis. _____

16. List 3 ways in which molecules cross the cell membrane

a. _____

b. _____

c. _____

17. Define receptor. _____

18. Define ligand. _____

19. What happens when a receptor and a ligand bind? _____

20. List the 2 types of receptors found in cells.

a. _____

b. _____