

**AP Biology 015 – Cell Membrane  
Video Review Sheet**  
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1. Why does soap dissolve the membrane easily?
2. What is selective permeability? How does the cell achieve this?
3. What are the major molecules in the cell membrane?
4. Define the characteristic of being amphipathic? Explain how this affects transport across the membrane?
5. What role do proteins play in transport?
6. What kinds of cell have cell membranes?
7. What kinds of cells have cell walls?
8. What are the two roles of cholesterol in the membrane?
9. What are glycoproteins made of?
10. Name an important glycoprotein and its role in the body?
11. What are glycolipids made up of and what is their role in the membrane?
12. Draw (simply) and describe the structure of a phospholipid and indicates its charges on the diagram.
13. Diagram the charge distribution of a membrane:

14. Why can't water pass through the phospholipids?
  
15. What are the characteristics (2) and examples (2) of substances that can move easily through the membrane?
  
16. How do proteins assist in transport? (2)
  
17. What is the role of proteins classified as an Aquaporin?
  
18. What does "active transport" require to function. Name a famous example of a pump.
  
19. Name two functions of the cell wall:
  
  
20. What material makes up the cell wall of:
  - a. Plants:
  
  - b. Bacteria:
  
  - c. Fungi: