

Task 1: Inside the Cell Membrane Video

Use any link below to watch the Inside the Cell Membrane video by the Amoeba Sisters. As you watch, answer the following questions. Full URL: <https://www.youtube.com/watch?v=gBCVVszQQNs&vl=en>
 Tiny URL: <https://tinyurl.com/vyxby4la>

1. What does the term *semi-permeable* mean? It means that some materials can move through the membrane, but other materials cannot move through the membrane.
2. True or False? - All types of cells have a cell membrane. True
3. Which part of a phospholipid is hydrophilic? Polar head
4. What does the term *hydrophilic* mean? Likes water
5. Which part of a phospholipid is hydrophobic? Non-polar tails
6. What does the term *hydrophobic* mean? Does not like water
7. What is the significance of the fluid nature of the fluid mosaic model? It gives the cell membrane flexibility
8. What is the role of cholesterol in a phospholipid bilayer? Cholesterol keeps the phospholipids from becoming too close in cool temperatures and too far away from each other in warm temperatures
9. Where are peripheral proteins found? Outside on the membrane
10. Where are integral proteins found? Within the phospholipid bilayer
11. Which type of protein allows materials in and out of the cell? Integral proteins
12. Why the roles of glycoproteins and glycolipids? Can identify the cell as belonging to a certain organism and cell signaling
13. Label the phospholipid tail, phospholipid head, and the protein in the diagram. Is the protein shown in the diagram a peripheral protein or integral protein? How do you know?
Integral protein because it is found inside the phospholipid bilayer.
14. Why are the heads of the phospholipid bilayer located on the outside of the membrane? They are hydrophilic and polar

**Task 2: Cell Membrane Interactive**

Use any link below to complete the Cell Membrane: Just Passing Through interactive activity on the PBS Learning Media website. Click on the names of the parts of this interactive to learn more about each one. Full URL: <https://pbslm-contrib.s3.amazonaws.com/WG8H/conv19/tdc02-int-membraneweb/index.html>
 Tiny URL: <https://tinyurl.com/y3pgv6td>

15. What is the role of the ion channel? To allow ions to pass through the cell membrane
16. What is the role of the protein pump? To use energy released within the cell to force substances through the cell membrane
17. What is the role of the aquaporin? To allow water to pass through the cell membrane
18. How does oxygen and carbon dioxide move across the cell membrane? Through the phospholipid bilayer
19. How does potassium move across the cell membrane? Through the ion channel
20. How does sodium move across the cell membrane? Through the protein pump

Virtual Investigation Transport Across Cell Membrane

Webquest Answers

BM King



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