

## Task 2: Inside the Cell Membrane Video

Use any link below to watch the Inside the Cell Membrane video by the Asclepius Sisters. As you watch, answer the following questions. Full URL: <https://classroom.youtube.com/watch?v=6zvzICXz4QMsSdQs>  
tiny URL: <https://tinyurl.com/26262626>

- What does the term semi-permeable mean? \_\_\_\_\_ It means that some materials can move through the membrane, but other materials cannot cross the membrane.
- True or False? - All types of cells have a cell membrane. \_\_\_\_\_ True
- Which part of a phospholipid is hydrophilic? \_\_\_\_\_ Polar head
- What does the term hydrophilic mean? \_\_\_\_\_ Likes water
- Which part of a phospholipid is hydrophobic? \_\_\_\_\_ Non-polar tails
- What does the term hydrophobic mean? \_\_\_\_\_ Does not like water
- What is the significance of the fluid mosaic model? \_\_\_\_\_ Shows that cell membranes are fluid.
- What is the role of cholesterol in a phospholipid bilayer? \_\_\_\_\_ Checks and keeps the phospholipids from becoming too close together or too far apart from each other in a saturated state.
- Where are glycoproteins found? \_\_\_\_\_ On the outside of the membrane.
- Where are proteoglycans found? \_\_\_\_\_ Within the phospholipid bilayer.
- What type of proteins allows materials to move out of the cell? \_\_\_\_\_ Proteins that move materials.
- Why are glycoproteins and glycolipids? \_\_\_\_\_ They identify the cell as belonging to a certain organism and cell signaling.
- Label the phospholipid tail, glycoprotein 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.
- Why are the heads of the phospholipid bilayer located on the outside of the membrane? \_\_\_\_\_ They are hydrophilic and water.



## Task 3: Cell Membrane Interactive

Use any link below to complete the Cell Membrane: Best Practice 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://classroom.pbslearningmedia.org/resource/154622/best-practices-best-practices>  
tiny URL: <https://tinyurl.com/26262626>

- What is the role of the ion channel? \_\_\_\_\_ It allows ions to move through the cell membrane.
- What is the role of the protein pump? \_\_\_\_\_ It uses energy released within the cell to move substances through the cell membrane.
- What is the role of the aquaporin? \_\_\_\_\_ It allows water to move through the cell membrane.
- How does oxygen and carbon dioxide move across the cell membrane? \_\_\_\_\_ Through the phospholipid bilayer.
- How does potassium move across the cell membrane? \_\_\_\_\_ Through the ion channel.
- How does sodium move across the cell membrane? \_\_\_\_\_ Through the protein pump.

# Cell Webquest Guide Answer Key

**CO Houle**

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