

Membrane Structure POGIL™ Activities for AP® Biology

What molecules make up a membrane?

Why?

Imagine your bedroom without closets, drawers, shelves, bags or boxes—just a room with a bed. Where would your stuff be? Would you be able to find the things you needed? How efficiently could you get ready for school in the morning? Would all of your school items be together when you sat down to study? The compartments you use in your room—the closet, drawers, etc.—help you organize items by category so that all the items you need to get dressed are in one place. All the items you need for studying are in another place. This **compartmentalization** improves efficiency. Cells also need organization to improve efficiency. The compartmentalization of cells is achieved by dividing up areas in the cell with membranes. A plasma membrane compartmentalizes internal structures while the cell membrane acts as a boundary between the cell and the external environment.

Model 1 – Phospholipids

1. Refer to Model 1. Identify at least two organic functional groups in a phospholipid molecule.

2. Consider the term phospholipid.

a. What portion of the molecule in Model 1 is responsible for the “phospho-” part of the name?

b. What portion of the molecule in Model 1 is responsible for the “-lipid” part of the name?

3. Part of a phospholipid is polar.

a. Circle the portion of the molecule in Model 1 that is polar.

b. Would this portion of the phospholipid mix well with water? Explain your reasoning.

4. Part of a phospholipid is nonpolar.

a. Draw a square around the portion of the molecule in Model 1 that is nonpolar.

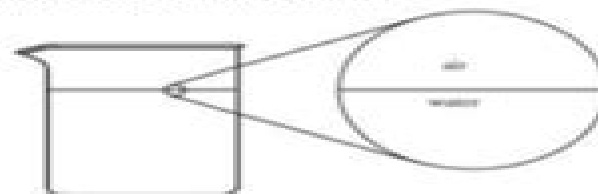
b. Would this portion of the phospholipid mix well with water? Explain your reasoning.

5. Label the regions of the molecule in Model 1 with the phrases “hydrophilic head” and “hydrophobic tail.”

6. Scientists often use a cartoon representation like the one shown below to represent a phospholipid. Which portion of the cartoon represents the hydrophilic head of the phospholipid?



7. When phospholipids are placed on the surface of water they form a thin layer. Consider carefully which portion of the phospholipid will be in the water and which will be in the air in order to obtain the most stable (lowest potential energy—maximum attractions) system. Draw a cartoon-like representation below to show the proper orientation of three phospholipid molecules on the surface of water.



8. When a small amount of oil is added to a beaker of water containing phospholipids, the phospholipids will surround the oil droplets forming **micelles**. Use several cartoon representations of phospholipid molecules to show the arrangement or orientation of phospholipids in a micelle.

Pogil Activities For Ap Biology Membrane Structure Worksheet Answers

F Rizvi



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The Dynamics of Membrane Structure, 1980 *Membrane Structure*, 1973 Hydration and Charge Effects on Model Membrane Structure and Interaction Małgorzata Maria Hermanowska, 2010 *Biological Membranes* Dennis Shirley Parsons, 1975 Essays on the organizations properties and functions of cell membranes Essential AP Biology Princeton Review, 2010-12-28 Portable and easy to use the Princeton Review s Essential AP Biology flashcards bring you important terms and helpful explanations to help turbo charge your AP test prep With information naturally broken into bite sized chunks our flashcards make it easy to study anytime and anywhere Essential AP Biology includes 450 flashcards with need to know terms for key AP Biology subject areas covering topics such as cells cellular energetic photosynthesis molecular genetics cell reproduction heredity diversity of organisms plants animal structure and function and more Use the color coded scale on the sides of the box to help measure your progress by keeping track of how many cards you ve studied so far which terms you ve mastered and which you still need to review Studying for the AP Biology Exam doesn t have to be painful the Princeton Review s Essential AP Biology flashcards will make it a breeze The Plasma Membrane B. D. Gomperts, 1976

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Table of Contents Pogil Activities For Ap Biology Membrane Structure Worksheet Answers

1. Understanding the eBook Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - The Rise of Digital Reading Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Personalized Recommendations
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers User Reviews and Ratings
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers and Bestseller Lists

5. Accessing Pogil Activities For Ap Biology Membrane Structure Worksheet Answers Free and Paid eBooks
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers Public Domain eBooks
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers eBook Subscription Services
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers Budget-Friendly Options
6. Navigating Pogil Activities For Ap Biology Membrane Structure Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers Compatibility with Devices
 - Pogil Activities For Ap Biology Membrane Structure Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Highlighting and Note-Taking Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Interactive Elements Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
8. Staying Engaged with Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
9. Balancing eBooks and Physical Books Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Setting Reading Goals Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Fact-Checking eBook Content of Pogil Activities For Ap Biology Membrane Structure Worksheet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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