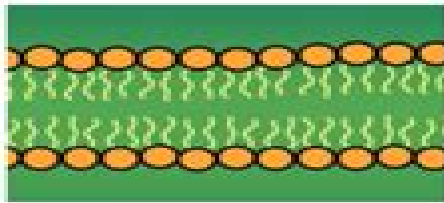


## Amoeba Sisters Video Recap: Cell Transport

The cell membrane is important for maintaining **homeostasis**, because it controls what enters and leaves a cell.



1. Sketch the **phospholipid bilayer** of a cell membrane below and label the **polar heads** and **nonpolar tails**.



← Polar heads

← Nonpolar tails

2. What is simple diffusion?

*"Diffusion that doesn't take any energy to force these molecules in or out so this is known as passive transport. Simple diffusion moves with the flow."*

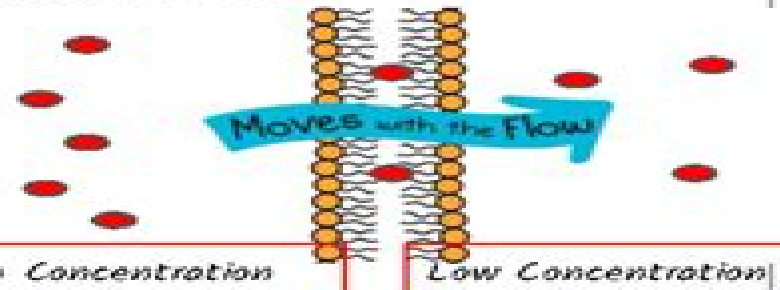
*Meaning, it moves with the concentration gradient."*

3. Circle the statements below that would be TRUE about **simple diffusion**. HINT: There is more than one!

- ☒ A) It is a form of passive transport.
- ☒ B) Molecules travel with the concentration gradient.
- ☐ C) It is how glucose travels across the cell membrane.
- ☐ D) It is how oxygen and carbon dioxide travel across the membrane.
- ☐ E) This transport is typical for large molecules.

### Moving with the Concentration Gradient

4. "Moving with the flow" (i.e. going with the concentration gradient) is the direction of flow in passive transport. Show this in the diagram on right by **drawing in 10 total circles (to represent molecules)**. You must decide a certain amount to place on the left vs. the right side after viewing the arrow indicating the direction of movement. **Label the high concentration side and low concentration side.**



### Endocytosis and Exocytosis

5. Are **endocytosis** and **exocytosis** forms of passive or active transport? *Active Transport*

6. Give a scenario where a cell may need to perform a form of endocytosis. *"Amoebas for example rely on endocytosis. Pseudopods stretch out around what they want to engulf and then it gets pulled into a vacuole."*

7. Give a scenario where a cell may need to perform a form of exocytosis. *"Cell walls are different from cell membranes- all cells have membranes but not all cells have a wall. But if you are going to make a cell wall, you're going to need to get those carbohydrates that are produced in the plant of the cell out of the cell to make the wall."*



# Answer To Transport In Cells

**LL Leslie**



## **Answer To Transport In Cells:**

**College Biology Learning Exercises & Answers** Textbook Equity, 2014-08-22 This textbook is designed as a quick reference for College Biology volumes one through three It contains each Chapter Summary Art Connection Review and Critical Thinking Exercises found in each of the three volumes It also contains the COMPLETE alphabetical listing of the key terms black white version College Biology intended for capable college students is adapted from OpenStax College's open CC BY textbook Biology It is Textbook Equity's derivative to ensure continued free and open access and to provide low cost print formats For manageability and economy Textbook Equity created three volumes from the original that closely match typical semester or quarter biology curriculum No academic content was changed from the original See [textbookequity.org/tbq\\_biology](http://textbookequity.org/tbq_biology) This supplement covers all 47 chapters

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Srivastava,2024-09-26 This book is structured around a series of multiple choice questions covering key concepts in cell biology Each chapter is devoted to a specific aspect of cellular biology providing a focused approach to learning and assessment The questions are meticulously crafted to challenge and engage readers encouraging critical thinking and problem solving skills The topics covered in this book span the breadth of cell biology from the basics of plasma membrane structure to the complexities of cancer biology and molecular signaling pathways Whether you are preparing for graduate or postgraduate level exams or simply seeking to deepen your understanding of cellular biology this book offers a valuable resource for self assessment and review **Biology Workbook For Dummies** Rene Fester Kratz,2012-04-06 From genetics to ecology the easy way to score higher in biology Are you a student baffled by biology You re not alone With the help of Biology Workbook For Dummies you ll quickly and painlessly get a grip on complex biology concepts and unlock the mysteries of this fascinating and ever evolving field of study Whether used as a complement to Biology For Dummies or on its own Biology Workbook For Dummies aids you in grasping the fundamental aspects of Biology In plain English it helps you understand the concepts you ll come across in your biology class such as physiology ecology evolution genetics cell biology

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