

TRANSPORT IN CELLS

How do water molecules move?

Why?

Water accounts for over 70% of the human body. If water levels are not regulated and maintained there can be disastrous consequences. Cells and tissues can swell, blood cells burst and your brain expands so much it pushes on the skull, leading to brain damage and death. So what exactly is the process that allows organisms to regulate and maintain their water content?

MODEL 1: Movement of Water – a type of diffusion.

Schematic Diagram of Transport of Water in a Sugar Solution:



Key:



Sugar molecules (solute)



Water molecules (solvent)



Selectively permeable membrane

For each question use the above diagram:

1. Complete the following table:

	Left side of membrane	Right side of membrane
Number of water molecules	24	14
Number of sugar molecules	6	15
Ratio of water to sugar	4:1	14:15

2.
 - a. What is the **solvent** in the diagram?
Water molecules
 - b. What is the **solute** in the diagram?
Sugar molecules
3. Using the terms from Question 2, define a solution (use complete sentences).

Solution is the product of the solute and the solvents



The Answers To Transport In Cell Pogil

**George A. Truskey, Fan Yuan, David F.
Katz**



The Answers To Transport In Cell Pogil:

Intracellular Transport Katherine Brehme Warren, 2012-12-02 Intracellular Transport Volume 5 brings together a seemingly disparate group of scientists who offer their perspectives on the processes and mechanisms underlying intracellular transport. Organized into 14 chapters, this volume begins with a review of some of the viewpoints about membrane structure and the unit membrane concept, including the so-called pauci-molecular theory of cell membrane structure advanced by Danielli and Davson. The next chapters focus on intracellular potentials, the localization of adenine nucleoside phosphatase activity, pinocytosis in amoeba, the brush border of cells, and the transport of gamma-aminobutyric acid. The reader is also introduced to pattern and rhythm, diffusion and reaction coupling, compartmental analysis, and residence time distributions and parametric pumping. The remaining chapters explore intracellular transport fluxes, theoretical aspects of permeability, transport rotating helices and contractile mechanisms, and the movements of cell membranes. This book is a valuable source of information for cellular biologists concerned with nature's evolved processing plants and engineers involved in the analysis and design of chemical processing plants. **Transport and Accumulation in Biological Systems** Eric James Harris, 1972 [Transport Phenomena in Biological Systems](#) George A. Truskey, Fan Yuan, David F. Katz, 2004 Presenting engineering fundamentals and biological applications in a unified way, this book provides learners with the skills necessary to develop and critically analyze models of biological transport and reaction processes. Midwest **Intracellular transport** Katherine Brehme Warren, 1969

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