

Cell A&P and Division Guided Outline Notes

Cells, diffusion, and osmosis, OH MY!

- Big ideas:
 - What are cells?
The smallest unit that can live on its own and that makes up all living organisms and the tissues of the body
 - What do cells do?
Work together, in groups, to form tissues, which forms organs, which comprise systems, to make an organism.
 - Why is the cell membrane semipermeable?
The cell membrane is semi-permeable because the phospholipid bilayer prevents the diffusion of most molecules across the membrane due to the hydrophobic nature of the tails.
 - How can things cross the cell membrane?
Particles move across membranes by simple diffusion, facilitated diffusion, osmosis and active transport.
 - What determines their direction of movement?
The concentration gradient
- Background
 - What are the different kinds of cells found in the human body?
Stem cells, bone cells, blood cells, muscle cells, sperm cells, female egg cells, fat cells, nerve cells
 - Describe different functions that cells can have within the body.
Provides structure for the body, take in nutrients from food, convert the nutrient into energy, & carry out specialized functions
 - How do cells relate to tissues?



Guided Cell Answer

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Guided Cell Answer:

Fundamental of Nursing - Guide - 2024 Akash Tiwari,2024-01-08 *AP Biology Study Guide* Sundar Nathan,2009-11

Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test *Cardiovascular + Lymphatic System - Guide - 2024* AKASH TIWARI (AT),2024-01-08 *Microbiology - Guide - 2024* Akash Tiwari,2024-01-08 *Pediatric - Guide - 2024* Akash Tiwari,2024-01-08 *Wiley CPAexcel Exam Review 2014 Study Guide* O. Ray Whittington,2013-11-08

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