

# Biology Semester Review

Name \_\_\_\_\_

242-45 **Mind Blows:** transverset, brown paper, iodine, starch, Benedict's, blue/black, orange, purple.

## Indicators for Organic Compounds:

42. Glucose (monosaccharide) \_\_\_\_\_  
43. Starch (polysaccharide) \_\_\_\_\_  
44. Lipids \_\_\_\_\_  
45. Proteins \_\_\_\_\_

Burns \_\_\_\_\_  
Burns \_\_\_\_\_  
Burns \_\_\_\_\_  
Burns \_\_\_\_\_

Fill in the correct macromolecule/organic compound (some used more than once):  
**protein, nucleic acid, carbohydrate, and lipid**



46. Glucose \_\_\_\_\_ 50. Cell membranes \_\_\_\_\_  
47. DNA/RNA \_\_\_\_\_ 51. Polypeptide \_\_\_\_\_  
48. Enzymes \_\_\_\_\_ 52. Hemoglobin \_\_\_\_\_  
49. Short term energy \_\_\_\_\_ 53. Polysaccharide \_\_\_\_\_

254-53 **Mind Blows:** reused, antibiotics, enzymes, protein, dehydrogenase

(54) \_\_\_\_\_ are biological catalysts that speed up chemical reactions. They are made of the macromolecule: (55) \_\_\_\_\_. They bind to (56) \_\_\_\_\_. In a mechanism called "lock & key". This is because the enzyme has a specific SHAPE to fit its substrate. In addition enzymes can be (57) \_\_\_\_\_ over and over unless they are exposed to the wrong temperature or wrong pH, at which point they (58) \_\_\_\_\_.

59. Answer the following using the pH scale.

a. What is the pH of a neutral substance? \_\_\_\_\_  
b. What is the pH of a strongest acid? \_\_\_\_\_ pH of the weakest acid? \_\_\_\_\_  
c. What is the pH of the strongest base? \_\_\_\_\_ pH of the weakest base? \_\_\_\_\_



## Unit 4: Cells

60. Fill in the blanks on the cell theory.

1. All cells come from \_\_\_\_\_ cells.  
2. \_\_\_\_\_ are the basic units of structure and function.  
3. All (circle one) living / non-living things are made of cells.



Nerve Cell

61. Place the terms under the appropriate heading. SOME may go under BOTH

simple, complex, membrane-bound organelles, no membrane-bound organelles, nucleus, ribosomes, cytoplasm, plasma membrane, bacteria, animals, plants, protists, fungi, mitochondria, smaller, larger

## PROKARYOTIC



62. Identify the following organelles:

chloroplast, endoplasmic reticulum, nucleus, nucleolus, plasma membrane, ribosomes

a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_  
d. \_\_\_\_\_  
e. \_\_\_\_\_  
f. \_\_\_\_\_

- = photosynthesis / makes glucose
- = cellular respiration / makes lots of ATP
- = protein synthesis
- = holds genetic information / control center of the cell
- = regulates what goes in and out
- = makes ribosomes

63. **CIRCLE** the organelles found **ONLY** in plants: centrioles, cell wall, chloroplast, 1 large vacuole, small vacuoles

64. **CIRCLE** the organelles found **ONLY** in animals: centrioles, cell wall, chloroplast, 1 large vacuole, small vacuoles

266-73 **Mind Blows:** osmosis, low, high, ATP, facilitated diffusion, homeostasis, selectively, diffusion, osmosis.

The plasma membrane controls (65) \_\_\_\_\_ (balance/equilibrium) of particles in the cell. The plasma membrane is a lipid bilayer. It is (66) \_\_\_\_\_ permeable. This means that only certain substances can pass without the use of energy. Energy is also known as (67) \_\_\_\_\_.

There are THREE types of PASSIVE transport, which does not need ATP. They are (68) \_\_\_\_\_, the movement of small particles from (69) \_\_\_\_\_ to low concentration; (70) \_\_\_\_\_, the movement of water from high to low concentration; and (71) \_\_\_\_\_, the movement of molecules through protein channels from high to (72) \_\_\_\_\_ concentration. (73) \_\_\_\_\_ transport REQUIRES cell energy and protein channels. In fact, in active transport, ATP is used to push molecules against their concentration gradient, or from low to high.

# Nd Semester Review 2014 Biology Everman

**Alexandra Anh-Thu Weber, Eleonora  
Puccinelli, Paris Vasileios  
Stefanoudis, Daniela Zeppilli**

## Nd Semester Review 2014 Biology Everman:

**16th Deep-Sea Biology Symposium** Alexandra Anh-Thu Weber, Eleonora Puccinelli, Paris Vasileios Stefanoudis, Daniela Zeppilli, 2023-11-28 The 16th Deep Sea Biology Symposium was held in Brest France and online from the 12th to the 17th of September 2021 The first DSBS hybrid symposium brought together scientists students managers policymakers and industry specialists who presented advances in deep sea research Themes of the symposium and of this Research Topic include Conservation and stewardship natural anthropogenic impacts conservation governance This includes but it is not limited to deep seabed mining pollutants and debris climate change impacts marine spatial planning stewardship of the deep ocean Biodiversity and ecosystem functioning biodiversity patterns species distribution function from polar to temperate regions mesopelagic to hadal microbes to large pelagic Life history traits and population connectivity reproductive ecology larval development and dispersal and population connectivity Adaptations of deep sea organisms from molecules to organisms how life adapts to extreme conditions including for instance bioluminescence and vision in the deep sea Access to the deep sea technological and methodological advances to access and investigate deep sea life including observatories and cutting edge technologies e g A I and omics Deep sea biomimicry discovery of new technologies inspired by deep sea biological solutions Science communication in the deep including innovative approaches to increase ocean literacy merging arts sciences

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1. Understanding the eBook Nd Semester Review 2014 Biology Everman
  - The Rise of Digital Reading Nd Semester Review 2014 Biology Everman
  - Advantages of eBooks Over Traditional Books
2. Identifying Nd Semester Review 2014 Biology Everman
  - 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 Nd Semester Review 2014 Biology Everman
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nd Semester Review 2014 Biology Everman
  - Personalized Recommendations
  - Nd Semester Review 2014 Biology Everman User Reviews and Ratings
  - Nd Semester Review 2014 Biology Everman and Bestseller Lists
5. Accessing Nd Semester Review 2014 Biology Everman Free and Paid eBooks
  - Nd Semester Review 2014 Biology Everman Public Domain eBooks
  - Nd Semester Review 2014 Biology Everman eBook Subscription Services
  - Nd Semester Review 2014 Biology Everman Budget-Friendly Options
6. Navigating Nd Semester Review 2014 Biology Everman eBook Formats
  - ePUB, PDF, MOBI, and More
  - Nd Semester Review 2014 Biology Everman Compatibility with Devices
  - Nd Semester Review 2014 Biology Everman Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nd Semester Review 2014 Biology Everman
  - Highlighting and Note-Taking Nd Semester Review 2014 Biology Everman
  - Interactive Elements Nd Semester Review 2014 Biology Everman
8. Staying Engaged with Nd Semester Review 2014 Biology Everman

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Nd Semester Review 2014 Biology Everman

9. Balancing eBooks and Physical Books Nd Semester Review 2014 Biology Everman

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Nd Semester Review 2014 Biology Everman

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Nd Semester Review 2014 Biology Everman

- Setting Reading Goals Nd Semester Review 2014 Biology Everman
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Nd Semester Review 2014 Biology Everman

- Fact-Checking eBook Content of Nd Semester Review 2014 Biology Everman
- 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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