



Exam 1 Biology 101 Lecture (Chapter 1, 2, and 3) Mastering in Biology

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where does the word biology come from?	three greek roots "bio", meaning "life", and "logy", meaning "the study of"
What are organisms?	living things
characteristics of organisms	organisms acquire and use materials and energy organisms actively maintain organized complexity organisms sense and respond to stimuli organisms grow organisms reproduce organisms, collectively, evolve
cell	basic unit of life
plasma membrane	separates each cell from its surroundings enclosing a huge variety of structures and chemicals in a fluid environment (plasma membrane is enclosed in a protective cell wall in microorganisms and plants)
unicellular	most abundant organisms on earth exist as single cells
multicellular	qualities of life are more visual here organisms made up of 2 or more cells
Where do organisms obtain the materials that make up their bodies?	from the air water soil and sometimes the bodies of other living things
Does life create or destroy matter?	life does neither. Life neither create or destroys matter, matter is simply recycled
energy	organisms need and use it continuously in order to live
sunlight	all the energy that sustains life comes from sunlight
photosynthesis	the way that some organisms capture solar energy directly. Energy from the sunlight is trapped and stored for plants and many single celled organisms through this process.
homeostasis	the ability of an organism to maintain its internal environment within the limits required to sustain life
how do living things maintain homeostasis	cell membranes constantly pump specific substances in and others out. Life requires very precise internal conditions maintained by continuous expenditure of energy
to obtain energy and nutrients organisms must...	sense and respond to stimuli in their environments
How do animals sense and respond to stimuli in their environments	animals use specialized cells to detect light temperature sound gravity touch chemicals and many other stimuli from their external and internal surroundings
do organisms grow?	yes every organism grows sometime in its life
In what ways do organisms reproduce?	dividing in half, producing seeds, bearing life young and producing eggs
What is the end result of reproduction?	new versions of the parent organisms that inherit the instructions for producing and maintaining their particular for of life
Deoxyribonucleic acid (DNA)	the set of instructions for a living beings cells that is inherited from parents (is in every cell) (provides a detailed instruction manual for life) (kind of like a blue print)
evolution	is the change in DNA that occurs in a population over time is inevitable!
population	a group of the same type of organism inhabiting the same area
scientific theory of evolution	1800s charles Darwin and Alfred Russel Wallace has been supported over time by fossils geological studies radioactive dating of rocks genetics molecular biology biochemistry and breeding experiments

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Table of Contents Answer Key Biology 101 Montgomery College Lab

1. Understanding the eBook Answer Key Biology 101 Montgomery College Lab
 - The Rise of Digital Reading Answer Key Biology 101 Montgomery College Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Biology 101 Montgomery College Lab
 - 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 Answer Key Biology 101 Montgomery College Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Biology 101 Montgomery College Lab

- Personalized Recommendations
 - Answer Key Biology 101 Montgomery College Lab User Reviews and Ratings
 - Answer Key Biology 101 Montgomery College Lab and Bestseller Lists
5. Accessing Answer Key Biology 101 Montgomery College Lab Free and Paid eBooks
- Answer Key Biology 101 Montgomery College Lab Public Domain eBooks
 - Answer Key Biology 101 Montgomery College Lab eBook Subscription Services
 - Answer Key Biology 101 Montgomery College Lab Budget-Friendly Options
6. Navigating Answer Key Biology 101 Montgomery College Lab eBook Formats
- ePub, PDF, MOBI, and More
 - Answer Key Biology 101 Montgomery College Lab Compatibility with Devices
 - Answer Key Biology 101 Montgomery College Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Answer Key Biology 101 Montgomery College Lab
 - Highlighting and Note-Taking Answer Key Biology 101 Montgomery College Lab
 - Interactive Elements Answer Key Biology 101 Montgomery College Lab
8. Staying Engaged with Answer Key Biology 101 Montgomery College Lab
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Biology 101 Montgomery College Lab
9. Balancing eBooks and Physical Books Answer Key Biology 101 Montgomery College Lab
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Biology 101 Montgomery College Lab
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key Biology 101 Montgomery College Lab
- Setting Reading Goals Answer Key Biology 101 Montgomery College Lab
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key Biology 101 Montgomery College Lab

- Fact-Checking eBook Content of Answer Key Biology 101 Montgomery College Lab
- 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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