

# Chapter 1 - Microbiology

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11:35 AM

**Microbiology** = the study of microorganisms (microbes)

- **Microbes** = organisms that cannot be readily seen without a microscope
- **Medical microbiology** = the medical implications of microbes (how they cause diseases)
- **Viral pathogens** -> not a microbe because it is not actually a living thing

Micrometer, micron,  $\mu\text{m}$

- 0.000001 meter = 1 micrometer

How many human cells are in the body

- More than 30 trillion
- Emphasis on *human* cells because that excludes the other microbes and microorganisms

Organizing microbes

- Classification
  - **Carl Linnaeus** is founder of modern taxonomy
    - *Systema Naturae*
      - 1) Animals
      - 2) Plants
      - 3) Minerals
    - **Taxonomy** = the classification, description, identification, and naming of living organisms
- Defining properties
  - **Ernst Haeckel** make the first phylogeny (tree) to include a kingdom for protista and
    - **Protista** = single cell organisms
    - **Monera** = bacteria
  - Before this, we didn't have a way of classifying things to this level (so tiny)
    - Greatest success was that it showed the relatedness of organisms
  - **Phylogeny** = depiction of the evolutionary history of a group of organisms
- A **taxon** is based on increasing specificity of the characteristics of a group of organisms



# Microbiology Chapter 1 Test

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## **Table of Contents Microbiology Chapter 1 Test**

1. Understanding the eBook Microbiology Chapter 1 Test
  - The Rise of Digital Reading Microbiology Chapter 1 Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Chapter 1 Test
  - 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 Microbiology Chapter 1 Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Chapter 1 Test
  - Personalized Recommendations
  - Microbiology Chapter 1 Test User Reviews and Ratings
  - Microbiology Chapter 1 Test and Bestseller Lists
5. Accessing Microbiology Chapter 1 Test Free and Paid eBooks
  - Microbiology Chapter 1 Test Public Domain eBooks
  - Microbiology Chapter 1 Test eBook Subscription Services
  - Microbiology Chapter 1 Test Budget-Friendly Options

6. Navigating Microbiology Chapter 1 Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Microbiology Chapter 1 Test Compatibility with Devices
  - Microbiology Chapter 1 Test Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology Chapter 1 Test
  - Highlighting and Note-Taking Microbiology Chapter 1 Test
  - Interactive Elements Microbiology Chapter 1 Test
8. Staying Engaged with Microbiology Chapter 1 Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microbiology Chapter 1 Test
9. Balancing eBooks and Physical Books Microbiology Chapter 1 Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microbiology Chapter 1 Test
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Chapter 1 Test
  - Setting Reading Goals Microbiology Chapter 1 Test
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Chapter 1 Test
  - Fact-Checking eBook Content of Microbiology Chapter 1 Test
  - 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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