

## Unit 1 Study Guide

### Concept 1.1

1. Describe how genetic information is contained within DNA and is inherited from parent to offspring (See Figs 1.6-1.7) and explain is meant by "gene expression," (See Fig 1.8).

### Concept 1.2

2. Explain the process of natural selection:
  - a. Describe the conditions that are necessary for natural selection to occur and explain why for each condition.
  - b. What causes mutations to occur and how does this relate to the conditions for natural selection?
  - c. Explain the consequences of natural selection (i.e., at what level does natural selection operate and at what level do we see evolutionary change? what is an adaptation?).
  - d. Apply your understanding of natural selection to a specific example to explain how and why this process can lead to different adaptations in different environments.

### Concept 1.3

3. Differentiate between hypotheses and predictions and among different types of experimental variables (independent vs dependent vs controlled).
4. Interpret data presented in graphical form, drawing conclusions about the results as they relate to course themes (e.g., natural selection).

### Concept 2.2

5. Describe the components of an atom (location, mass, and charge of protons, neutrons, and electrons) and how changes in each component affects atomic properties (e.g., what type of atom it is, whether it's an isotope, whether it is an ion, etc.)
6. What are valence electrons and how do they affect an atom's reactivity with other atoms?

### Concept 2.3

7. Compare and contrast ionic vs covalent bonds.
8. Explain the difference between polar and nonpolar covalent bonds and how electronegativity affects covalent bond polarity.
9. When given examples of different bonds, predict bond polarity (nonpolar vs polar; rank bonds in order of polarity) and identify partial charges on a polar molecule.
10. Describe how hydrogen bonds form and contrast this with ionic and covalent bonds and Van der Waals interactions.
11. Explain how molecular shape can impact function.

### Concept 2.5

12. Describe how the polarity of water molecules leads to the formation of hydrogen bonds between molecules of water (see Fig 2.16).

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**J Dewey**



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## **Table of Contents Microsoft Word Unit 1 Study Guide Answers**

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

6. Navigating Microsoft Word Unit 1 Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Microsoft Word Unit 1 Study Guide Answers Compatibility with Devices
  - Microsoft Word Unit 1 Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microsoft Word Unit 1 Study Guide Answers
  - Highlighting and Note-Taking Microsoft Word Unit 1 Study Guide Answers
  - Interactive Elements Microsoft Word Unit 1 Study Guide Answers
8. Staying Engaged with Microsoft Word Unit 1 Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microsoft Word Unit 1 Study Guide Answers
9. Balancing eBooks and Physical Books Microsoft Word Unit 1 Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microsoft Word Unit 1 Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microsoft Word Unit 1 Study Guide Answers
  - Setting Reading Goals Microsoft Word Unit 1 Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microsoft Word Unit 1 Study Guide Answers
  - Fact-Checking eBook Content of Microsoft Word Unit 1 Study Guide Answers
  - Distinguishing Credible Sources
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  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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