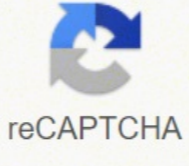




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## 16.2 Ideas That Shaped Darwin's Thinking

### Lesson Objectives

- 1 Identify the conclusions drawn by Hutton and Lyell about Earth's history.
- 2 Describe Lamarck's hypothesis of evolution.
- 3 Describe Malthus's view of population growth.
- 4 Explain the role of inherited variation in artificial selection.

### Lesson Summary

**An Ancient, Changing Earth** In Darwin's day, most Europeans believed that Earth and all its life forms were only a few thousand years old and had not changed very much in that time. Several scientists who lived around the same time as Darwin began to challenge these ideas. These scientists had an important influence on the development of Darwin's theory of evolution.

- ▶ Geologists James Hutton and Charles Lyell argued that Earth is many millions of years old.
- ▶ They also argued that the processes changing Earth today, like volcanism and erosion, are the same ones that changed Earth in the past.

Knowing that Earth could change over time helped Darwin realize that species might change as well. Knowing that Earth was very old convinced Darwin that there had been enough time for life to evolve.

**Lamarck's Evolutionary Hypothesis** Jean-Baptiste Lamarck was one of the first scientists to propose hypotheses about how evolution occurred.

- ▶ To explain evolution, Lamarck hypothesized that all organisms have an inborn drive to become more complex and perfect. According to Lamarck, an organism could gain or lose traits during its lifetime by using or not using certain organs.
- ▶ Lamarck also hypothesized that acquired characteristics could be passed on to an organism's offspring leading to evolution of the species.

Scientists now know that most of Lamarck's ideas about evolution are incorrect. However, he correctly suggested that life is not fixed and was the first to offer a natural and scientific explanation for evolution. Further, he recognized that an organism's traits are linked to its environment.

**Population Growth** Thomas Malthus thought that if the human population continued to grow unchecked, it would run out of living space and food. Darwin realized that this was true of all organisms, not just humans.

**Artificial Selection** Plant and animal breeders in Darwin's time used a process now known as artificial selection to improve their crops and livestock. In **artificial selection**, nature provides the variations, and humans select those they find desirable. Darwin experimented with artificial selection. The results from his experiments indicated natural variation was very important because it provided the raw material for evolution.

### An Ancient, Changing Earth

1. In what two ways did an understanding of geology influence Darwin?

That the earth was really old and how old the rocks were.

For Questions 2–5, write *True* if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

Older 2. Hutton realized that Earth was much younger than previously believed.

slow 3. Lyell thought most geological processes operated extremely quickly.

True 4. The processes that changed Earth in the past are different from the processes that operate in the present.

True 5. Lyell's work explained how large geological features could be built up or torn down over long periods of time.

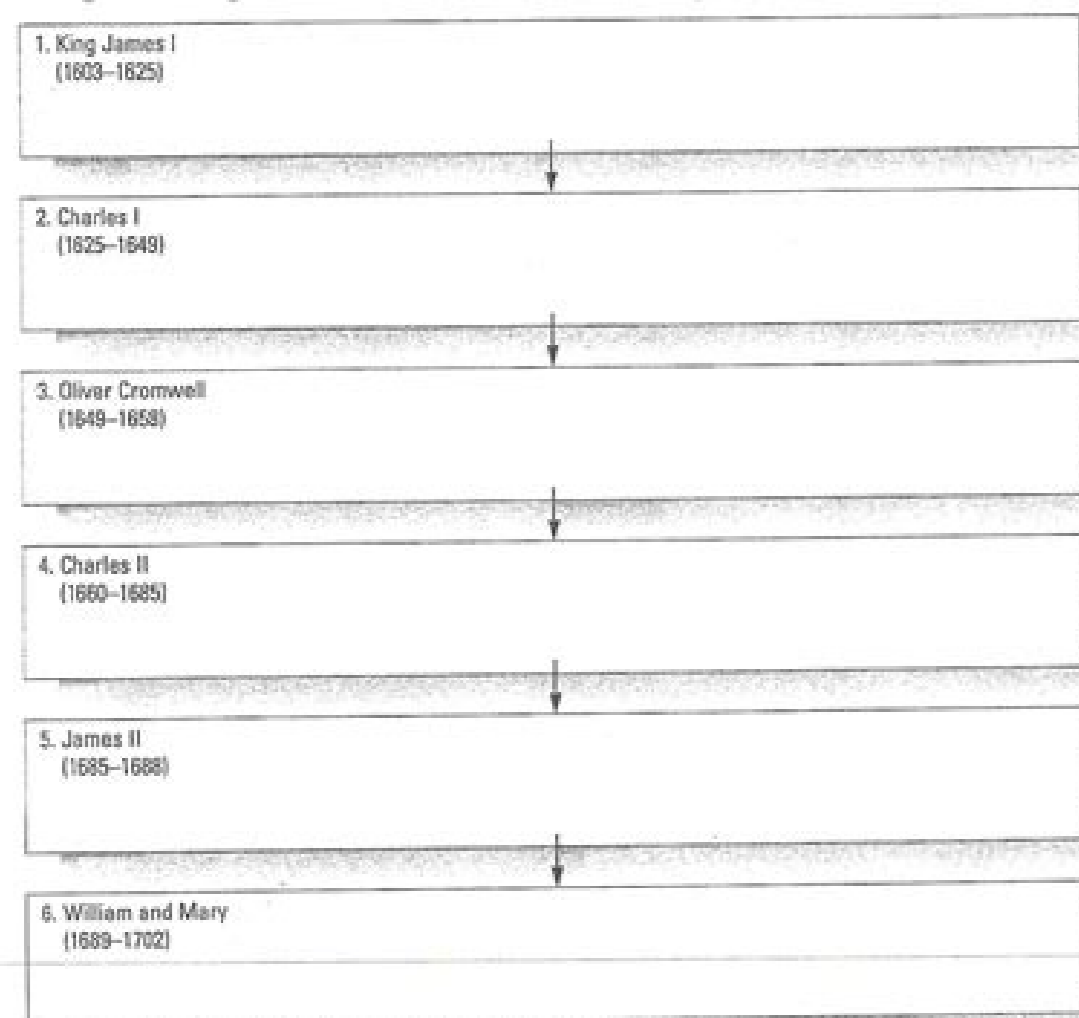
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## GUIDED READING *Parliament Limits the English Monarchy*

Section 5

**A. Identifying Supporting Ideas** As you read this section, take notes to fill in the diagram describing relations between Parliament and each English ruler listed.



**B. Recognizing Facts and Details** On the back of this paper define or identify each term below.

Restoration    habeas corpus    Glorious Revolution    cabinet    constitutional monarch

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

# The Computer Revolution

## Multiple-Choice Quiz

Directions: Select the best possible answer from the given options.

1. What British scientist invented the World Wide Web (WWW) in 1989?
  - a. Daniel Bell
  - b. Nicholas Negroponte
  - c. Stewart Brand
  - d. Tim Berners-Lee
2. The \_\_\_\_\_ was brought on by computers and the Internet.
  - a. Industrial Revolution
  - b. Information Age
  - c. Postmodernism movement
  - d. Space Race
3. Which of the following has not been fully or partially replaced by personal computers (PC)?
  - a. Accounting books
  - b. Food consumption
  - c. Print media
  - d. Typewriters
4. The World Wide Web (WWW) is also known as the \_\_\_\_\_.
  - a. digital magician
  - b. Information Age
  - c. Internet
  - d. personal computer
5. Buying and selling on the Internet is called \_\_\_\_\_.
  - a. consumerism
  - b. E-commerce
  - c. globalization
  - d. the free market
6. The \_\_\_\_\_ began in the 1970s when microprocessor-based computers started to become common in industrialized businesses and households.
  - a. Computer Revolution
  - b. Information Age
  - c. Scientific Revolution
  - d. World Wide Web

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### Section 2-3 Carbon Compounds (pages 44-48)

#### Key Concept

What are the functions of each group of organic compounds?

#### The Chemistry of Carbon (page 44)

1. How many valence electrons does each carbon atom have?  Each carbon atom has 4 valence electrons.
2. What gives carbon the ability to form chains that are almost unlimited in length?  A carbon atom can bond to other carbon atoms.

#### Macromolecules (page 45)

3. Many of the molecules in living cells are so large that they are known as \_\_\_\_\_ macromolecules.
4. What is the process called by which macromolecules are formed?  Polymerization.
5. What monomers join together to form polymers?  Monomers.
6. What are four groups of organic compounds found in living things?
  - a. carbohydrates
  - b. lipids
  - c. proteins
  - d. nucleic acids

#### Carbohydrates (pages 45-46)

7. What atoms make up carbohydrates?  Carbon, hydrogen, and oxygen atoms make up carbohydrates.
8. Circle the letter of each sentence that is true about carbohydrates.
  - Carbohydrates and sugars are examples of carbohydrates.
  - Living things use them as their main source of energy.
  - The monomers in sugar polymers are starch molecules.
  - Plants and some animals use them for storage and energy.
  - Single sugar molecules are also called \_\_\_\_\_ monosaccharides.
  - Circle the letter of each monosaccharide.
    - a. galactose
    - b. glycogen
    - c. fructose

Reading and Study Workbook 39

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Week: \_\_\_\_\_

### Word Geography Test From Your Online Answer Key

The Word Geography test covers chapters 1-20 of the book as well as all of the letters and words shown in the following vocabulary word list.

- Part: Vocabulary
1. Robert Hooke used compound microscopes.
  2. Charles Darwin's theory of evolution, descent with modification, and natural selection is the basis of modern biology.
  3. Differentiate the speed of light and explain how it varies in different media.
  4. Invertebrates: What are some examples of invertebrates? (List three different invertebrates.)
  5. Mitochondria have a ribby, outer membrane and an inner membrane.
  6. Chloroplasts produce glucose in the stroma of chloroplasts and the stacked thylakoid membranes.
  7. Name the parts of a flower and their functions.
  8. Name the four major groups of the animal kingdom: Mammals, Birds, Reptiles, and Amphibians.
  9. Name the four major groups of the plant kingdom: Angiosperms, Gymnosperms, Mosses, and Ferns.
  10. Name the four major groups of the protist kingdom: Protozoans, Fungi, and Algae.
  11. Name the four major groups of the bacterial kingdom: Bacteria, Archaea, and Eukarya.
  12. Name the four major groups of the viral kingdom: Herpesviruses, Adenoviruses, Rotaviruses, and Influenza viruses.
  13. Name the four major groups of the eukaryotic kingdom: Plants, Animals, Fungi, and Protists.
  14. Name the four major groups of the prokaryotic kingdom: Bacteria, Archaea, and Eukarya.
  15. Name the four major groups of the eukaryotic kingdom: Plants, Animals, Fungi, and Protists.
  16. Name the four major groups of the prokaryotic kingdom: Bacteria, Archaea, and Eukarya.
  17. Name the four major groups of the eukaryotic kingdom: Plants, Animals, Fungi, and Protists.
  18. Name the four major groups of the prokaryotic kingdom: Bacteria, Archaea, and Eukarya.
  19. Name the four major groups of the eukaryotic kingdom: Plants, Animals, Fungi, and Protists.
  20. Name the four major groups of the prokaryotic kingdom: Bacteria, Archaea, and Eukarya.

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