Note-taking Cells—The Units of Life Worksheet

Section 1 The World of Cells

- A. ______ help living creatures with activities of life such as movement, growth, and reproduction.
 - 1. The ______ was developed after Robert Hooke invented the microscope in 1665.
 - a. All ______ things are made of one or more cells.
 - **b.** The cell is the ______ of life.
 - **c.** All cells come from cells that already ______.
 - 2. ______ are one-celled organisms; larger organisms are made of many cells, sometimes trillions of cells.
 - **3.** A microscope's ______ is found by multiplying the powers of the eyepiece and the objective lens.
- B. Cells are composed of parts that do ______ jobs.
 - 1. The flexible ______ is the boundary of the cell and helps control what enters and exits the cell; some cells have a **cell wall** that helps support and protect the cell.
 - 2. ______ is a gelatinlike substance containing many chemicals the cell needs.
 - 3. Specialized cell parts called ______ do various jobs within a cell.
 - **4.** The ______ contains hereditary material called chromosomes.
 - 5. ______ are storage organelles for food, water, and wastes.
- C. Inside the _____, cellular respiration uses oxygen to convert food energy into a form the cell can use.
 - 1. _____ products of cellular respiration are carbon dioxide and water.
 - 2. Leaf cells in plants contain chloroplasts that help the cell make its own food

through ______.

Meeting Individual Needs

Date

Note-taking Worksheet (continued)

Section 2 The Different Jobs of Cells

- A. The cells in many-celled organisms are ______ in shape and size for their function.
 - 1. ______ specialized cells include fat cells, bone cells, nerve cells, and muscle cells.
 - a. _____ cells can store so much fat that the nucleus is pressed against the cell membrane.
 - **b.** A hard calcium and phosphorus material surrounds ______ cells.
 - c. _____ cells have many long branches to send and receive messages.
 - d. _____ cells have fibers that can contract and relax.
 - 2. _____ cells in leaves, stems, and roots are specialized to move food and water or to support the plant.
- **B.** Cells are ______ so they can work together to keep the organism alive.
 - 1. Tissues are groups of similar cells that do the same kind of work; two or more tissues that work together form an ______.
 - 2. Groups of organs that work together to perform a job are called ______