Name:	Date:
Block:	Integrated Science 7

Introducing Science-- "What is Science" and the "The Unifying Principles of Science"

DIRECTIONS: Read pages xxix-xxxv in the Science textbook. Then, complete the outline by filling in important details from the text. TAKE SPECIAL NOTE OF THE ITALICIZED VOCABULARY WORDS!

I. What is Science?

1. 2. 3.

II. Unifying Principles of Life Science

Α.	All Living Things Share Common Charac	teristics
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1.	cell
2.	organism
3.	
4.	

- B. All Living Things Share Common Needs
 - 1. 2. 3.
- C. Living things meet their needs through interactions with the environment
 - 1. environment--
 - 2. interaction--
 - 3.
- D. The types and numbers of living things change over time
 - 1. species--
 - 2. biodiversity--
 - 3. adaptations--
 - 4. extinction--
- III. Unifying Principles of Earth Science
 - A. Heat energy inside Earth and radiation from the Sun provide energy for Earth's processes
 - 1. energy--
 - 2. radiation--
 - 3.
 - B. Physical forces, such as gravity, affect the movement of all matter on Earth and throughout the universe
 - 1. matter--
 - 2. force--3.
 - 5.
 - C. Matter and Energy move among Earth's rocks and soil, atmosphere, waters, and living things
 - 1. atmosphere--
 - 2. geosphere--
 - 3. hydrosphere-
 - 4. biosphere--
 - 5.

D. Earth has changed over time and continues to change 1.

IV. Unifying Principles of Physical Science

D.

- A. Matter is made of particles to small to see
 - 1. atoms--
 - 2. elements--

3.

B. Matter changes form and moves from place to place

1.

- C. Energy changes from one form to another, but it cannot be created or destroyed
 - 1. Law of conservation of energy--

2.

- Physical forces affect the movement of all matter on Earth and throughout the universe
 - 1. Force--
 - 2. Gravity--
 - 3. Friction--
 - 4.