

The Study of Life 1.2

Date _____

Last _____, First _____ per _____

1. **What is Life Science?** _____

a. Write 3 examples of branches of life science.

- i. _____
- ii. _____
- iii. _____

2. What other **branches of science** might a plant scientist need to know in order to understand how plants get energy?

- a. _____
- b. _____
- c. _____

3. What does a biologist call a **living thing**? _____

4. **Big Ideas of Life Science**

a. *The following "big ideas" form the basis of all work in life science: Fill in the missing words or phrases.*

- i. Organisms are diverse, yet _____.
- ii. Groups of organisms _____ over time
- iii. The _____ and _____ of an organism is complimentary.
- iv. _____ operate on the same _____ as the rest of the natural world.

5. **Give one Get one (Characteristics of all Living things)**

a. *Think of something all living things have in common and write it down. On the teacher's signal, go find a classmate to share your thought with. Add your classmate's thought to your list.*

i. Things all living things have in common:

1. My idea _____

2. Classmate's name _____

a. idea _____

6. **Similar yet Diverse**

a. Life on earth comes in great varieties, yet all organisms are similar. *Complete the examples.*

- i. All organisms are made of _____.
- ii. All living things require _____.
- iii. All organisms grow and _____.

7. **Change over Time**

a. Life on Earth has changed over time. Fossils of extinct organisms show that they were different than present day organisms, yet they had similar characteristics. To explain how this change has occurred, a theory has been developed. What is the name of this theory?

8. Structure and Function

- a. What is meant by the structure of an organism? _____

- b. What is meant by the function of an organism? _____

- c. What is meant by the phrase: The structure and function of an organism is complimentary?

9. Give one Get one (Complimentary Structure and Function)

- a. *Choose an organism and explain how a part of its structure is adapted for its function. Find a classmate to share your idea with and add your classmate's idea to your list.*
 - i. Organism _____
 - 1. Structure or body part _____
 - a. Function of body part _____

 - ii. Classmate's' organism _____
 - 1. Structure or body part _____
 - a. Function of body part _____

10. Organisms operate on the same physical rules as the rest of the natural world.

- a. Give some examples of chemical process that goes on within an organism.

