

Sample Lesson C

1. Complete the following chart describing the four molecules of life.

| Molecule | Function |
|---------------|--------------------------------|
| Carbohydrates | |
| | Provides structure and enzymes |
| Lipids | |
| | Carries the genetic material |

2. Which of the following is a basic need for plants but not for animals?

A) Air B) Nutrients C) Light D) Shelter

3. Identify the invertebrate that matches each description below:

- A) These animals have segmented parts. They include the crab, the spider and the honeybee.
- B) A group of animals with radial symmetry. These animals have a very simple nervous system and an incomplete digestive system.
- C) Includes clams, slugs and octopus, this group of invertebrates have soft bodies, although some are protected by a shell or carapace.

4. How is does an **ectotherm** differ from an **endotherm**? Explain and give one example of each.

difference → _____

endotherm → _____

ectotherm → _____

5. List the three parts of Cell Theory.

6. Complete the following chart about the three domains of life:

| Domain | Defining feature |
|------------|------------------|
| Archaea | Prokaryotic |
| Eubacteria | |
| | Eukaryotic |

7. Some plants reproduce with the help of seeds, while others do not.

A) List two benefits of seeds for plants which have them. _____

B) How do seedless plants reproduce? _____

8. What is the purpose of the two parts of the cell cycle?

A) interphase → _____

B) mitosis → _____

9. Using the weather map provided in the Help pages, describe what type of weather can be expected in the following locations:

A) San Francisco → _____

B) Chicago → _____

10. Each of the following plant parts plays a role in photosynthesis. Explain each role.

A) roots → _____

B) stoma → _____

C) chloroplast → _____