**Layered Curriculum – Ecosystems**

Your score is your decision. It is based on following directions, and your total points completed.

You must attempt total of **70 points**.

|  |
| --- |
| **LABEL EACH SECTION,** followed by the assignment number you are completing. Complete **ONE SECTION AT A TIME**.  For example:   * **C-Level Assignments:**  1. A food web is… a food chain is… a producer is… 2. The amount of energy changes as it flows through a food web by… 3. Question #1 – A; Question #2 – B; Question #3 – C…  * **B-Level Assignments:** |

**READY? LET’S GO!**

**C Level Assignments**

You must complete *25 points* in this section.

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Possible** | **Earned** |
| 1. Define food web, food chain, producer, consumer, and decomposer. | 5 |  |
| 1. Describe how the amount of energy changes as it flows from the sun, to the producers, to the primary consumers, secondary consumers, and tertiary consumers. | 10 |  |
| 1. Read the section entitled “Levels of Organization” in the Coach book on page 103 and create a visual representation of the levels in an ecosystem. | 10 |  |
| 1. Answer questions 1 – 4 on page 110 of the Coach book. | 5 |  |
| 1. Answer questions 1 – 4 on page 122 of the Coach book. | 5 |  |

**B Level Assignments**

You must complete *30 points* in this section.

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Possible** | **Earned** |
| 1. Create a Venn Diagram to show the similarities and differences between the Nitrogen cycle and the Carbon cycle. | 10 |  |
| 1. Illustrate and label the Nitrogen cycle and the Carbon cycle. | 10 |  |
| 1. Draw an example of a food chain (with at least 4 organisms) and a food web (with at least 8 organisms). | 10 |  |
| 1. Explain why decomposers are important to the Nitrogen cycle. | 10 |  |
| 1. A fire burns and completely destroys a forest. Give an example of a biotic factor and an example of an abiotic factor that would be affected as a result of the fire. Be sure to explain your reasoning. | 10 |  |

**A Level Assignments**

You must complete *10 points* in this section.

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Possible** | **Earned** |
| 1. Create 5 multiple choice test questions. You must explain the answer to each question and explain why every other answer choice is wrong. | 10 |  |
| 1. Complete the “Focus on Inquiry” activity on page 120 and 121 in the Coach book. | 15 |  |

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**B Level Assignments**

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|  |  |  |
| --- | --- | --- |
| **Assignment** | **Possible** | **Earned** |
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| 1. Illustrate and label the Nitrogen cycle and the Carbon cycle. | 10 |  |
| 1. Draw an example of a food chain (with at least 4 organisms) and a food web (with at least 8 organisms). | 10 |  |
| 1. Explain why decomposers are important to the Nitrogen cycle. | 10 |  |
| 1. A fire burns and completely destroys a forest. Give an example of a biotic factor and an example of an abiotic factor that would be affected as a result of the fire. Be sure to explain your reasoning. | 10 |  |

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| **Assignment** | **Possible** | **Earned** |
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