|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tracking Sheet**  **8th Grade Science**  **Unit: Ecology 1**   * **Power standard:** The student will be able to investigate changes in ecosystems and interactions of organisms with their environment.   **1** Just starting **2** Not there yet  **3** Got it! **4** Above and beyond | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LEARNING TARGET**  ***“I CAN…”*** | **GLE** | **Quiz**  Food web | **Correct** | | **Incorrect** | | | **Retake** | | | **Quiz**  Vocab 1 | | | **Correct** | | **Incorrect** | | | **Retake** | | **Quiz**  Vocab 2 | | | **Correct** | **Incorrect** | **Retake** |
| Identify the biotic factors and abiotic factors that make up an ecosystem. | 641Aa  2.4 | 6 |  | |  | | |  | | | 2 | | |  | |  | | |  | |  | | |  | | |
| 5 | | |  | |  | | |  | |
| 10 | | |  | |  | | |  | |
| Diagram and describe the transfer of energy in an aquatic food web and a land food web with reference to producers, consumers, decomposers, scavengers, and predator/prey relationships | 642Aa  2.2 | 1 |  | |  | | |  | | | 1 | | |  | |  | | |  | | 4 | | |  |  |  |
| 5 |  | |  | | |  | | | 4 | | |  | |  | | |  | | 6 | | |  |  |  |
| 7 |  | |  | | |  | | | 9 | | |  | |  | | |  | | 10 | | |  |  |  |
| 11 | | |  | |  | | |  | |
| Classify populations of unicellular and multicellular organisms as producers, consumers, and decomposers by the role they serve in the ecosystem | 642Ab  2.2 | 2 |  | |  | | |  | | | 3 | | |  | |  | | |  | | 1 | | |  |  |  |
| 3 |  | |  | | |  | | | 6 | | |  | |  | | |  | | 3 | | |  |  |  |
| 5 | | |  |  |  |
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| 4 |  | |  | | |  | | | 8 | | |  | |  | | |  | | 11 | | |  |  |  |
| 12 | | |  |  |  |
| 13 | | |  |  |  |
| Identify populations within a community that are in competition with one another for resources | 641Ba  2.3 | 8 |  | |  | | |  | | | 7 | | |  | |  | | |  | | 2 | | |  |  |  |
| Predict the possible effects of changes in the number and types of organisms in an ecosystem on the populations of other organisms within that ecosystem | 641Bc  2.3 | 9 |  | |  | | |  | | |  | | |  | | | | | | |  | | |  | | |
| 10 |  | |  | | |  | | |
| Explain the beneficial or detrimental impact that some organisms may have on other organisms | 841Da  2.3 |  |  | | | | | | | |  | | |  | | | | | | | 8 | | |  |  |  |
| 9 | | |  |  |  |
| Relate examples of adaptations within a species to its ability to survive in a specific environment | 643Ca  or  643Cb  2.1 |  |  | | | | | | | | 12 | | |  | |  | | |  | |  | | |  | | |
| **Tracking Sheet**  **8th Grade Science**  **Unit: Scientific Investigation**   * **Power standard:** The student will be able to design and conduct experiments using reasoning and critical thinking.   **1** Just starting **2** Not there yet  **3** Got it! **4** Above and beyond | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LEARNING TARGET**  ***“I CAN…”*** | **GLE** | **Quiz**  Field of beans | | **Correct** | | **Incorrect** | | | **Retake** | | | **Test**  Ecology 1 | | | | | **Correct** | | | **Incorrect** | | **Retake** | | **Level** | | |
| Design and conduct a valid experiment with multiple trials. | 871Ac  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |  | | |
| Formulate testable questions and hypotheses. | 871Aa  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| Identify and describe the importance of the independent variable, dependent variables, control of constants in a valid experiment. | 871Ab  1.1 | 1 | |  | |  | | |  | | | 15 | | | | |  | | |  | |  | |
| 2 | |  | |  | | |  | | |
| 16 | | | | |  | | |  | |  | |
| 3 | |  | |  | | |  | | | 17 | | | | |  | | |  | |  | |
| 4a | |  | |  | | |  | | |
| 4b | |  | |  | | |  | | |
| 4c | |  | |  | | |  | | |
| Determine and use the appropriate tools and techniques to collect data. | 871Bb  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| Calculate the range and average/mean of a set of data | 871Bg  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| Communicate the procedures and results of investigations and explanations through: data tables and graphs (bar, single line) | 871Da  Table  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| 871Da  Graph  1.1 |  | |  | | | | | | | | 25 | | | | |  | | |  | |  | |
| 26 | | | | |  | | |  | |  | |
| 27 | | | | |  | | |  | |  | |
| 28 | | | | |  | | |  | |  | |
| Use data to support a reasonable explanation (conclusions) for the results of a valid experiment. | 871Ca  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| Evaluate the design of a lab | 871Ad  1.1 | 5 | |  | |  | | |  | | |  | | | | |  | | | | | | |
| Use data to make predictions | 871Cb  1.1 |  | |  | | | | | | | |  | | | | |  | | | | | | |
| **Tracking Sheet**  **8th Grade Science**  **Unit: Ecology 1**   * **Power standard:** The student will be able to investigate changes in ecosystems and interactions of organisms with their environment.   **1** Just starting **2** Not there yet  **3** Got it! **4** Above and beyond | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LEARNING TARGET**  ***“I CAN…”*** | **GLE** | **Quiz**  Vocab 3 | | **Correct** | | | **Incorrect** | | | **Retake** | | | **Test**  Ecology 1 | | **Correct** | | | **Incorrect** | | | **Retake** | | **Level** | | | |
| Identify the biotic factors and abiotic factors that make up an ecosystem. | 641Aa  2.4 |  | |  | | | | | | | | | 1 | |  | | |  | | |  | |  | | | |
| 3 | |  | | |  | | |  | |
| 4 | |  | | |  | | |  | |
| 18 | |  | | |  | | |  | |
| 19 | |  | | |  | | |  | |
| Diagram and describe the transfer of energy in an aquatic food web and a land food web with reference to producers, consumers, decomposers, scavengers, and predator/prey relationships | 642Aa  2.2 | 1 | |  | | |  | | |  | | | 20 | |  | | |  | | |  | |
| 4 | |  | | |  | | |  | | |
| 8 | |  | | |  | | |  | | |
| Classify populations of unicellular and multicellular organisms as producers, consumers, and decomposers by the role they serve in the ecosystem | 642Ab  2.2 | 3 | |  | | |  | | |  | | | 5 | |  | | |  | | |  | |
| 6 | |  | | |  | | |  | |
| 7 | |  | | |  | | |  | | | 9 | |  | | |  | | |  | |
| 10 | |  | | |  | | |  | |
| 9 | |  | | |  | | |  | | | 21 | |  | | |  | | |  | |
| 22 | |  | | |  | | |  | |
| 23 | |  | | |  | | |  | |
| 24 | |  | | |  | | |  | |
| Identify populations within a community that are in competition with one another for resources | 641Ba  2.3 | 2 | |  | | |  | | |  | | | 2 | |  | | |  | | |  | |
| Predict the possible effects of changes in the number and types of organisms in an ecosystem on the populations of other organisms within that ecosystem | 641Bc  2.3 |  | |  | | | | | | | | | 29 | |  | | |  | | |  | |
| 30 | |  | | |  | | |  | |
| 31 | |  | | |  | | |  | |
| Explain the beneficial or detrimental impact that some organisms may have on other organisms | 841Da  2.3 | 5 | |  | | |  | | |  | | | 7 | |  | | |  | | |  | |
| 6 | |  | | |  | | |  | | | 8 | |  | | |  | | |  | |
| 10 | |  | | |  | | |  | | | 11 | |  | | |  | | |  | |
| 11 | |  | | |  | | |  | | | 12 | |  | | |  | | |  | |
| 12 | |  | | |  | | |  | | | 13 | |  | | |  | | |  | |
| 14 | |  | | |  | | |  | |
| Relate examples of adaptations within a species to its ability to survive in a specific environment | 643Ca  or  643Cb  2.1 |  | |  | | | | | | | | | 32 | |  | | |  | | |  | |
| 33 | |  | | |  | | |  | |