**Diversity and Evolution of Living Organisms**

**Benchmarks:**  **SC.7.L.15.2 Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms**. SC.7.L.15.1 Recognize that fossil evidence is consistent with the scientific theory of evolution that living things evolved from earlier species. SC.7.L.15.3 Explore the scientific theory of evolution by relating how the inability of a species to adapt with in a changing environment may contribute to the extinction of that species. SC.912.L.15.13 Describe the conditions required for natural selection, including: over production of offspring, inherited variation, and the struggle to survive, which result in differential reproductive success.

|  |  |
| --- | --- |
| **4** | When given a change in environmental factors, I can **hypothesize** the impacts to a species over time. |
| **3** | *I can* ***explore*** *the scientific theory of evolution by* ***recognizing*** *and* ***explaining*** *ways in which genetic variation and environmental factors contribute to evolution by natural selection.* |
| **2** |  I can **define**:\_\_\_ Theory of Evolution\_\_\_ Evolution\_\_\_ Diversity\_\_\_ Natural Selection | \_\_\_\_ I can **explain** the process of natural selection and how it relates to the theory of evolution.\_\_\_\_ I can **explain** that a species inability to adapt to changing environments may lead to extinction of that species.  |
|  |  I can **define**:\_\_\_ Genetic variation\_\_\_ Adaptation\_\_\_ Extinction\_\_\_ Overproduction\_\_\_ Environmental factors | \_\_\_\_ I can **identify** diversity as genetic variation through adaptation. \_\_\_\_ I can **explain** how environmental factors and variations in a species contribute to and adaptations over time.\_\_\_\_ I can **identify** and **describe** the conditions required for natural selection. (overproduction, inherited variation) |
|  | I can **define:**\_\_\_ fossil record | \_\_\_ I can **cite** evidence in the fossil record that shows that living organisms have evolved over time. |
| **1** | With help, students are able to have partial success with content. |