**Ecology**

**SC.7.L.17.2: Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.**

SC.7.L.17.1: Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.

SC.7.L.17.3: Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

SC.912.L.17.9 Use a food web to identify and distinguish producers, consumers, and decomposers. Explain the pathway of energy transfer through trophic levels and the reduction of available energy at successive trophic levels. SC.912.L.17.6 Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism

**Unit Scales:**

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| **4** | I can **design a model** to represent the relationships present in an ecosystem. |
| **3** | I can **compare and contrast** the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism. |
| **2** | I can **define**:\_\_\_\_ Mutualism\_\_\_\_ Competition \_\_\_\_ Predation\_\_\_\_ Commensalism\_\_\_\_ Parasitism | \_\_\_\_ I can **explain** symbiotic relationships among organisms. |
| I can **define**:\_\_\_\_ Energy transfer\_\_\_\_ Food web\_\_\_\_ Producers\_\_\_\_ Consumers\_\_\_\_ Decomposers | \_\_\_\_ I can **explain** and **illustrate** how energy transfer in a food web.\_\_\_\_ I can **explain** the roles and relationships of producers, consumers, and decomposers. |
| I can **define**:\_\_\_\_ Ecosystems\_\_\_\_ Resources\_\_\_\_ Space\_\_\_\_ Shelter\_\_\_\_ Limiting factors\_\_\_\_ Disease\_\_\_\_ Nesting sites | \_\_\_\_ I can **describe** the impact limiting factors have on a population in an ecosystem. |
| **1** | With help, students are able to have partial success with 2.0 content.  |
| **0** | Even with help, students have no success with content |