**Grade 7 Science Outcomes: Interactions within Ecosystems**

Outcome #1 Goals: Components of an Ecosystem

* I can define the terms **producer, consumer,** and **decomposer** and provide examples of each group which can be found in New Brunswick.
* I can classify individuals from a list of living things as producers, consumers, or decomposers.
* I can define the term **ecosystem** and can explain the roles that both living and non-living things have in an ecosystem.
* I can define the term **habitat** and identify the components needed for living things to survive in their habitat.
* I can define the term **photosynthesis** and explain how producers use photosynthesis to convert energy from the sun into energy that they can use.
* I can explain how to classify living things according to how they create or obtain energy to survive, and why it is helpful to do so.

Outcome #2 Goals: Food Webs

* I can define the terms **niche, population, community,** and **ecosystem,** and use them in daily conversation.
* I can explain the difference between a **food chain** and a **food web.**
* I can create a food web showing where all energy on Earth comes from, and how it travels from organism to organism.
* I can explain the strengths and weakness of food webs and other charts that attempt to show the transfer of energy from one organism to another.
* I can create a food web of an ecosystem by combining the information provided to me by multiple food chains.
* I can explain how all energy is recycled through the interactions between producers (plants), consumers (animals), and decomposers (fungi and microorganisms).
* I can apply my knowledge of how energy is recycled through an ecosystem to my own life.

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