**6th Grade Science Lesson**

**1. Lesson Topic/Title and Pacing**

* **Living Environment**
* **Standard: 4**
* **Key Idea: 6 - Plants and animals depend on each other and their physical environment.**
* **Performance Indicator: 6.1 – Describe the flow of energy and matter through food chains and food webs.**
* **Major Understanding: 6.1c – Matter is transferred from one organism to another and between organisms and their physical environment. Water, nitrogen, carbon dioxide, and oxygen are examples of substances cycled between the living and nonliving environment.**

**2. Performance Objectives**

* **Describe the various matter cycles that occur in an ecosystem.**

**3. Vocabulary**

* **Matter, nitrogen, carbon dioxide, interdependence, ecosystem, matter, recycle, oxygen, physical environment**

**4. Activity**

* **Draw and/or label diagrams of matter cycles ie, water cycle, oxygen/carbon dioxide cycle, nitrogen cycle.**
* **Using notes and/or diagrams of the different matter cycles as a reference, list examples of matter cycling and then label them “living to living”, “living to non-living”.**

**5. Assessment/Student Outcome**

* **How are substances recycled in ecosystems?**
* **Identify the various matter cycles.**
* **Given the labeled diagram, describe how matter is being recycled.**
* **Describe the ways matte is cycled between living and nonliving parts of the environment.**