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| **Grade:** 9th grade | **Course:** Biology |
| **Benchmark(s):**  SC.912.E.7.1 Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon. | |
| **Skills – Students should be able to do** | **Concepts – Student should know** |
| **Verbs** | **Nouns** |
| Identify  Connect  Apply  Summarize  Critique | Carbon  Photosynthesis  Cellular Respiration  Fossil Fuels  Water  Evaporation  Condensation  Precipitation |
| **Critical Area of Focus based on CTS:**  Photosynthesis and Respiration | |
| **Learning Goal:**  SWBAT summarize the components of the water cycle.  SWBAT describe the components of the carbon cycle.  SWBAT identify the phases of water and carbon cycle. | |
| **Essential Question for the lesson:**  How do chemicals and matters move through an ecosystem? | |
| **Supporting questions for the lesson:**  How does the carbon cycle relate to photosynthesis and cellular respiration? | |