**ARC Week at Glance**

**Topic: Thermodynamics Course: Environmental Science Grade: 9th Dates: 19-23 Aug**

1. **SEV 1** **Obtain, evaluate, and communicate information to investigate the flow of energy and cycling of matter within an ecosystem.**
   1. SEV 1.c Analyze and interpret data to construct an argument of the necessity of biogeochemical cycles (hydrologic, nitrogen, phosphorus, oxygen, and carbon) to support a sustainable ecosystem.

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|  | **Learning Target**  **(I am learning about…)** | **Criteria for Success**  **(I can…)** | **Activation/ Instruction** | **Collaboration/ Guided Practice** | **Independent Learning/ Assessment** |
| **Monday** | Biogeochemical Cycles | I can describe Positive and Negative feedback loops and give an example in the environment. | Lecture | Guided Notes | ToTD |
| **Tuesday** | Biogeochemical Cycles | I can explain the different parts of the Water Cycle. | Lecture | Guided Notes | Water Work Sheet |
| **Wednesday** | Biogeochemical Cycles | I can describe the Carbon cycle and the different parts of it. | Lecture | Guided Notes, Carbon Cycle Origami | Carbon Work Sheet |
| **Thursday** | Biogeochemical Cycles | I can explain the importance of the Phosphorus Cycle.  I can describe the impacts on the environment from too much Phosphorus. | Lecture | Guided Notes | Phosphorus Article |
| **Friday** | Biogeochemical Cycles | I can describe the importance of the Nitrogen cycle. | Lecture | Guided Notes, Nitrogen Cycle Origami | Nitrogen Worksheet |