

Science, Grade: 8  
Benchmark #: 4.1.3

Mastery Check \_\_\_\_\_

**State Language:**

The ultimate source of atmospheric and oceanic energy comes from the sun. Energy flow drives global climate and weather. Climate and weather are influenced by geographic features, cloud cover, and earth's rotation.

**Student Friendly Language:**

I will understand that the ultimate source of atmospheric and oceanic energy comes from the sun. I will understand that energy flow drives global climate and weather. I will understand that climate and weather are influenced by geographic features, cloud cover, and earth's rotation.

**Concept (Students will know):**

Energy from the sun drives weather and climate.  
  
Geographic features have some bearing on weather and climate.

**Skills (Students will do):**

understand

**DOK Level:**

**1**

**Big Ideas:**

Weather and climate are affected by the sun and the earth's surface.

**Essential Questions:**

What is the difference between weather and climate?  
  
How does living in the Northern Hemisphere determine our climate?  
  
How do the Rocky Mountains impact weather in Kansas?

**Core Materials**

**Supplemental Materials:**