

Science, Grade: 8  
Benchmark #: 4.3.1

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

**State Language:**

The student understands gravitational attraction of objects in the solar system keeps solar system objects in orbit.

**Student Friendly Language:**

I will understand that gravitational attraction keeps objects in our solar system in orbit.

**Concept (Students will know):**

The law of universal gravitation.  
How gravity has an influence on our solar system.

**Skills (Students will do):**

Understand

**DOK Level:**

**1**

**Big Ideas:**

There is a relationship between mass, distance and gravity.

**Essential Questions:**

How does gravity affect the orbit of our planets?

Using your own weight on Earth, calculate your weight on the sun and planets.  
Using your own mass on Earth, calculate your mass on the sun and planets.

**Core Materials**

**Supplemental Materials:**