Gravity

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is credited with the discovery of gravity as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ force between all objects in the universe.

According to the Universal Law of Gravitation, the size of the force of gravity depends on \_\_\_\_\_\_\_\_ things.

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the objects

Gravity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between objects with greater \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between the objects

Gravity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between objects increases.

Distance between objects is measured from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of each object.

Distances are *not* to scale.

The Earth’s diameter is \_\_\_\_\_\_\_\_\_\_\_\_\_ times greater than the moon’s.

The sun’s diameter is \_\_\_\_\_\_\_\_\_\_\_ times greater than the Earth’s.

The moon is approximately 238,500 miles away from the Earth. Gravity is the force that attracts the moon and Earth to each other.