

Name: \_\_\_\_\_

Block: \_\_\_\_\_

## PHYSICS: GRAVITY AND EFFECTS OF GRAVITY

### Classwork Part 1

**Part 1: Gravity Vocabulary.** Fill in the blank. Neatly print the vocabulary words into the paragraph on the lines.

Attraction

Decreases

Distance

Fall

Gravity

Increases

Mass

Moon

Newton

Orbit

Sun

Tides

law of \_\_\_\_\_. This law states that gravity is a force of \_\_\_\_\_ between every object in the universe. This law also states that the force of attraction between two objects depends on two things: the \_\_\_\_\_ of the objects and the \_\_\_\_\_ between the objects. As the mass of the objects increases the force of gravity \_\_\_\_\_ As the distance between the objects increases the force of gravity \_\_\_\_\_. Gravity can be used to explain many of the things we observe in the universe. For example, gravity explains why objects \_\_\_\_\_ to the ground when you drop them. This is because the Earth's gravity is pulling on the object. Gravity also explains why the oceans have \_\_\_\_\_. They are caused by the gravitational pull of the \_\_\_\_\_ and the \_\_\_\_\_. Gravity combined with the law of inertia can even explain why the planets \_\_\_\_\_ the sun.