

Force of Gravity Worksheet**Part One:** State whether the following statements are True or False:

- i. Mass and weight are not the same thing. \_\_\_\_\_
- ii. Since weight is a force, it is measured in Newtons. \_\_\_\_\_
- iii. A rock on Earth has a smaller mass than it has on the moon. \_\_\_\_\_
- iv. Weight does not change from planet to planet. \_\_\_\_\_

**Part two:** Draw the Fg Magic Triangle and write the formula for each variable.

Force of Gravity (Fg) =
Mass (m) =
Gravitational Acceleration (g) =

**Part Three:** Find the weight (on the Earth's surface) or mass of the following objects.

Note: gravity on Earth = 9.8 N/kg

a) a book of mass 2kg	b) 1.5kg of sand
c) a desk of weight 150N	d) a basketball of weight 0.7N