

Physics 112: Force of Gravity Review

1. An object's mass and weight are both a measurement of the force of gravity
 - a. True
 - b. False
2. There is not a force of gravity from the Earth on board the ISS (international space station)
 - a. True
 - b. False
3. The farther you are from the Earth the weaker the force of gravity.
 - a. True
 - b. False
4. In which quantity is the distance between masses accounted for?
 - a. F_g
 - b. M
 - c. G
5. In the absence of air and at the same location on the surface of the Earth _____
 - a. All objects fall at the same rate
 - b. Heavier objects fall faster than lighter objects
 - c. Pointy objects fall faster than flat objects
6. At the North Pole, what is the weight of an 82kg object?
 - a. 82 N
 - b. 806 N
 - c. 8.34 N
7. What mass, located at the equator would have a weight of 1450N?
 - a. 14182 kg
 - b. 148 kg
 - c. 0.00675 kg