**Force**

Vocab - Force, Weight, Balanced Forces, Unbalanced Forces

**Force:**

Types of Forces:

|  |  |
| --- | --- |
| Name | Description |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Units of Force:**

* Lifting a battery would take about \_\_\_\_\_\_\_\_\_\_\_ of force.
* Lifting the worldwide average person would take about \_\_\_\_\_\_\_\_\_\_\_\_ of force.
* Alligators can bite with a force of up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. That would be like being crushed by a small car.

**Mass vs. Weight**

**Mass:**

**Weight:**

Example: Jeff has 72kg of mass. He’s going to the moon, where the moon’s gravity pulls with only one sixth the strength of Earth.

On Earth: Jeff’s Mass:\_\_\_\_\_\_\_\_\_\_\_\_\_ Jeff’s Weight:\_\_\_\_\_\_\_\_\_\_\_\_

On Moon: Jeff’s Mass:\_\_\_\_\_\_\_\_\_\_\_\_\_ Jeff’s Weight:\_\_\_\_\_\_\_\_\_\_\_\_

Mass is directly proportional to weight. The means as you gain mass, you gain weight. If I were to \_\_\_\_\_\_\_\_\_\_\_ my mass, I would \_\_\_\_\_\_\_\_\_\_\_ my weight.

**Forces and Motion**

 Since a force is a push or pull it may cause movement. However an object will not always move when you put a force on it.

When an object has two equal forces pushing or pulling in opposite directions the forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the object will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

When an object has unequal forces pushing or pulling the forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the object will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 Homework:p.289 #1,2,4,5,6,7