**Weight and Mass**

1. What is a force?
2. What are forces measured in?
3. What is a Newton?
4. What is mass?
5. What is weight?
6. Will mass always be the same, regardless of where you are?
7. Will weight always be the same, regardless of where you are?
8. What is the acceleration due to gravity on Earth?
9. What is friction?

**Weight Practice:**

1. What is our equation for weight?
2. If a person weighs 600N, what is his mass on Earth?
3. If a person has a mass of 88Kg, what is his weight on Earth?
4. A person has a mass of 85kg on Earth. What is its mass on the moon, knowing that the moon has 1/6 the gravity of Earth.
5. A person has a mass of 85kg on Earth. What is its weight on the moon, knowing that the moon has 1/6 the gravity of Earth.

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| **Planet** | **Gravitational Constant** | **Weight** | **Mass** |
| Venus | 8.9m/s2 | 135N |  |
| Earth | 9.8m/s2 |  | 18kg |
| Mars | 3.7m/s2 | 650N |  |
| Jupiter | 22.95m/s2 |  | 12kg |
| Saturn | 10.4m/s2 | 500N |  |
| Neptune | 11.1m/s2 |  | 25kg |