

Chapter 3 Notes – Motion & Force

NAME: _____

DATE: _____

WEEK: _____

PTS. EARNED: _____

Forces in Nature

Force = _____

Force is measured in units called _____ (N)

Newtons = _____ units

Example: It takes about 45 N of force to lift the average cat.

Gravity = _____

The strength of gravity between two objects depends on two things:
_____ of object and _____ between them.

Gravity (acceleration due to...) = _____ m/s^2

Mass = _____

The greater the mass of either object, the stronger the gravity between them.

The closer together the objects are, the stronger the gravitational force; the farther apart, the weaker the force.

Weight = _____

Example: Your body has the same mass on Earth as it does on the moon, but you weigh about six times more on Earth than you would on the moon.

W = _____ x _____

*** Weight is Newtons (N) & Mass is Kilograms (kg) ***

Friction = _____

Types of Friction

1. _____

2. _____

3. _____

4. _____

5. _____

Forces in Motion

Speed = _____

Speed = _____ or d/t

Units:

Velocity = _____

Velocity = _____ or d/t

Units:

Difference between Distance and Displacement?

Acceleration = _____

Acceleration = _____ or $\frac{fv-iv}{t}$

Units: