**Guided Notes: Position, Distance, and Displacement**

traveled

original

fast

speed

position

independent

dependent

not moving

distance, displacement

constant, changing

**Guided Notes: Magnitude and Direction of Force**

magnitude, direction

amount

magnitude

weaker

movement

will not

will

equal, opposite

speed, less

force, force

**Guided Notes: Forces that Change Motion**

push, pull

sum

change

start moving, speed, direction

non-contact

state

mass, velocity

force, momentum

force, force

**Guided Notes: Newton’s First Law**

resistance

balanced/canceled out

Unbalanced

Velocity

sum/total

add

subtract

Newtons

balanced

inertia, unbalanced

inertia, unbalanced

**Guided Notes: Newton’s Second Law**

Acceleration

Force

Mass

sum

Newton

acceleration

force

More

**Guided Notes: Newton’s Third Law**

action force, reaction force

thrust

motion

strength, direction

rest, motion

thrust

reaction

**Guided Notes: Collision Forces**

unbalanced

mass, acceleration

reaction

strength, direction

21000 N, reaction

action, reaction