FORCE AND MOTION

VOCABULARY

force: a push or a pull on an object.

net force: the combination of all forces acting on an object.

balanced forces: equal forces acting on an object in opposite directions. When forces are balanced, an object does not move.

unbalanced forces: forces acting on an object that do not cancel each other out. Unbalanced forces cause an object to move.

Newton: the unit that measures force.

inertia: the ability to resist change.
example: Objects that are STILL want to stay STILL, objects in MOTION want to stay in MOTION.

gravity: a force that pulls everything toward the center of the Earth.

friction: a force that works against motion.

magnetism: the force of repulsion (pushing) or attraction (pulling) between poles of magnets.

motion: movement (the process of changing position).

speed: a measure of how fast something moves through a certain distance over a definite time period. (S = D/T)

momentum: the measure of how hard it is to slow or stop an object.

displacement: happens when one object pushes away or takes the place of another object.

work: the use of force to move an object through a distance.