

Name	
Science	Date
	Force
Force	-The ability to do work or cause physical change
	-A push or a pull
	Force= Mass times acceleration ($F = ma$)
	-can be a contact (touching) force like:
	<ul style="list-style-type: none"> • Frictional Forces • Air Resistance Forces
	-can be a force from a distance like:
	<ul style="list-style-type: none"> • Electrical Force • Magnetic Force • Gravitational Force
	When a force is applied to one object by a second object, the first object will exert an equal and opposite force on the same second object
	➤ Example: a rocket engine's fuel pushes downward and causes the rocket to move upwards
	➤ Example: a ball hits the floor and the floor pushes back
Newtons	Force is measured in Newtons (N)
	<ul style="list-style-type: none"> • 1 Newton is the force required to provide a mass of 1Kg with an acceleration of 1 metre per second squared.
Net Force	The total amount of forces acting on an object