	Vocabulary Word	Definition	Picture
1	Mass	The amount of matter or "stuff" in an object. It does not matter where the object is, the mass only depends on the matter in the object. Measured in Kilograms	
2	Weight	The force of gravity pulling down on an object. It is directly related to the mass and the location of the object. Measured in Newtons or Pounds.	
3	Force	Any push or pull on an object. Force is measured in Newtons.	
4	Net Force	The total force on an object. Add all of the forces together to get the net force.	
5	Friction	A type of force that happens when two objects rub against each other.	
6	Air Resistance	A type of force that happens when an object is falling through the air. Air resistance will always push in the opposite direction of motion.	

	Vocabulary Word	Definition	Picture
7	Free Body	A picture that has all of the forces	
	Diagram	acting on an object.	
	Diagram		
8	Equilibrium	When the net force on an object is	
		zero. An object can either be at rest,	
		or moving at a constant speed.	
٩	Static	An object at rest. The net force will be	
	Static	zero.	
10	Inertia	A resistance to change motion. The	
		more inertia and object has, the	
		harder to move. Inertia depends on	
		how much mass an object has.	
11	Normal Force	The force from a surface. This force	
	Normanioree	always points perpendicular to the	
		surface.	
12	Terminal	When an object is in free fall and	
	Velocity	eventually falls at a constant speed.	
		This happens because the force of	
		gravity cancels out with the force of air	
		resistance.	
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	Vocabulary Word	Definition	Picture
13	Vector	Any quantity that has a magnitude (number) and a direction.	
14	Newton's First	An object at rest will stay and rest and	
	Law	an object in motion will stay in motion, unless an outside force acts on it.	
15	Newton's	The acceleration of an object depends	
	Second Law	by the mass of the object.	
16	Newton's	For every action there is an equal and	
	Third Law	opposite reaction.	
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