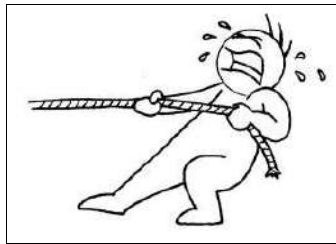


motion



any **change in position**

force



a **push or a pull**  
the greater the force,  
the greater the  
motion  
(measured in Newtons)

acceleration



any **change in the speed or the direction**  
of an object's motion

friction



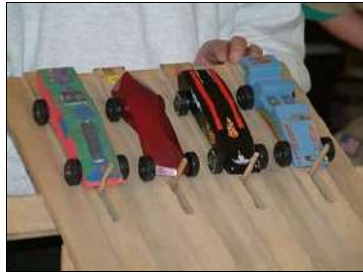
a force that is the  
**resistance (to stop)**  
**to motion**  
(bumpy road, brakes  
on a car)

gravity



a force that pulls all objects towards each other

potential energy



stored energy

kinetic energy



energy of motion

speed



the rate of change  
(how great or small a motion of an object)