## Forces <br> Walk Around




What is the net force on this object?


What is acceleration of this object?


What is the mass of this skydiver?


What is the acceleration of this skydiver? (assume positive is down)


## Phelps pulls back on the water to propel himself forward.

Which Law? (first, second, or third)


Neglecting all opposing forces, Phelps will stay in motion once he is moving due to inertia.

Which Law? (first, second, or third)


When Phelps pushes off the diving stand to start the race, he is applying force and causing acceleration.

Which Law? (first, second, or third)


When the car abruptly stopped, the boat had enough inertia that it kept moving.

Which Law? (first, second, or third)


When the truck slammed on it's brakes, it quickly decelerated.

Which Law? (first, second, or third)


When the truck and trailer were in motion, the tires were pushing on the ground and the ground was pushing back on the tires.

Which Law? (first, second, or third)


What is the unit for FORCE?


What is the unit for MASS?


What is the unit for WEIGHT?

