

Newton's Laws Prelab

Due start of class, week of Sept 23

Name: _____ Section: _____

1.) A horse is urged to pull a wagon. The horse refuses to try, citing Newton's third law as his defense: " 'The pull of the horse on the wagon is equal but opposite to the pull of the wagon on the horse.' If I can never exert a greater force on the wagon than it exerts on me, how can I ever start the wagon moving?" asks the horse. How would you reply?

2.) A skydiver jumps from a plane. Draw a free-body diagram of the skydiver after he has reached terminal velocity and label the forces that act on him. What is the net force on him? Is there anything the skydiver can do to change his terminal velocity once he has leapt from the plane?