Scie	nce Period
Date	
	Mr. Anthony

Newton's 2nd Law Worksheet

acceleration = force ÷ mass

6. How much net force is exerted on a tennis ball with a mass of 0.5 kg if it accelerates at 10 m/s ² ?
100 m/s^2 ? net force =
net force = 5. How much net force is exerted on a tennis ball with a mass of 0.1 kg if it accelerates at
4. How much net force is exerted on a baseball with a mass of 0.2 kg if it accelerates at 500 $^{\rm m/s^2?}$
acceleration =
3. A baseball with a mass of 0.2 kg accelerates with a net force of 500 N. The net force acts for 0.4 s. What is the acceleration? What is the final speed?
acceleration =
2. A ball with a mass of 100 kg accelerates with a net force of 500 N . The net force acts for 0.5 s . What is the acceleration?
acceleration =
1. A car with a mass of 750 kg accelerates with a net force of 1000 N. The net force acts for 1.5 s. What is the acceleration?
Newton's Second Law states: