

Name: _____

Period: _____

IPC Physics Final Review 1

$mv = m \text{ \underline{times} } v$ $F/a = F \text{ \underline{ } } a$ $T_2 + T_1 = T_2 \text{ \underline{ } } T_1$ $mv = m \text{ \underline{ } } v$ $\Delta D/\Delta T = \Delta D \text{ \underline{ } } \Delta T$	MA = _____ F or F_w = _____ d or λ = _____ W or E = _____ R = _____ I = _____ p = _____ V = _____ P = _____ f = _____ T = _____ a = _____	8 kgm/s 8 Ω 8 w 8 8 sec 8 N 8 m 8 A 8 m/s ² 8 V 8 Hz 8 J	A car travels 88 meters in 11 seconds. Find the car's speed. You travel from Maine (100 miles away) to Vermont (300 miles away), in 4 hours. Calculate your speed. A bike goes 12 m/s for 6 seconds. Calculate how far the bike traveled. A plane stops from 300 mph in 15 seconds. Calculate the planes acceleration.					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center;">N</td> <td rowspan="4" style="padding: 5px;"> If the two magnets are repelling each other, label N and S on the second magnet. </td> </tr> <tr> <td style="width: 30px; text-align: center;">S</td> </tr> <tr> <td style="width: 30px; text-align: center;">_____</td> </tr> <tr> <td style="width: 30px; text-align: center;">_____</td> </tr> </table>	N	If the two magnets are repelling each other, label N and S on the second magnet.	S	_____	_____			
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S								

<p style="text-align: center;">Experimental or Control Variables:</p> <p>Variables that you keep the same in an experiment: <i>You are studying how the amount of salt affects the boiling point of water.</i></p> <p>A variable that you are studying in an experiment: The amount of salt would be:</p> <p>You have only one of these: The type of pot used would be:</p> <p>You can have many of these: The thermometer would be:</p>	<p>Name the six steps of the Scientific Method:</p> <p>Name the six Simple Machines:</p>
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If you go to another planet what would change? Weight or mass?

If you were in space what would stay the same? Weight or mass?

<p style="text-align: center;">Position vs. Time</p> 	<p style="text-align: center;">Which of Newton's Three Laws Applies?</p> <p>___ A paddle-wheel boat pushes on the water and the water pushes back to move the boat.</p> <p>___ Fighter pilots feel massive amounts of force when their planes turn quickly.</p> <p>___ A rolling ball hits your leg hard to stop.</p>
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<p>Where was the object at 4 seconds? _____</p> <p>When did the object reach 8 meters? _____</p> <p>Find the slope of the graph (must show work)</p> <p>What does the slope you just found stand for? _____</p> <p>If you drop a full bottle of water and an empty bottle of water, which one hits the ground first and why?</p>	<p>Using $g = 10 \text{ m/s}^2$, find the weight of a 3 kg mass.</p> <p>A 35 kg bike accelerates at 5 m/s^2. With what force was the person pedaling?</p> <p>If 40 N is pushing to the right and friction is 10 N, find the net force and acceleration of a 6 kg object.</p>
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