

$MA = 5$ F or $F_n = 5 \text{ N}$ d or $k = 5 \text{ m}$ W or $E = 5 \text{ J}$ $R = 5 \text{ }\Omega$ $I = 5 \text{ A}$ $p = 5 \text{ kg/m}^3$ $V = 5 \text{ v}$ $P = 5 \text{ w}$ $f = 5 \text{ Hz}$ $T = 5 \text{ sec}$ $a = 5 \text{ m/s}^2$	5 kg/m^3 $5 \text{ }\Omega$ 5 m 5 5 sec 5 N 5 m 5 A 5 m/s^2 5 v 5 Hz 5 J	<p>Show heat transfer:</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 20°C ← </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 55°C ← </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 70°C ← </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 55°C ← </div> </div> <p>Conduction, convection, or radiation?</p> <p>Insulator or Conductor?</p> <p>Metal: C _____ Wood: L _____ Plastic: L _____ Copper: C _____ Paper: L _____ Air: L _____</p>	<p>Find the speed of a bike that travels 120 meters in 20 seconds. $S = D/T = 120 \text{ m} / 20 \text{ sec} = 6 \text{ m/s}$</p> <p>A car starts 10 m away, then drives to 210 meters away in 40 seconds. How fast did they drive? $S = D/T$ <i>but D is really ΔD, change of distance.</i> $\text{So } S = \Delta D / \Delta T = 200 \text{ m} / 40 \text{ sec} = 5 \text{ m/s}$</p> <p>What force results in 5 m/s^2 of acceleration to a 1.5 kg mass? $F = ma = (1.5 \text{ kg}) \times (5 \text{ m/s}^2) = 7.5 \text{ N}$</p> <p>A car speeds to 250 mph in 50 seconds. Calculate acceleration. $a = \Delta D / \Delta T = 250 \text{ mph} / 50 \text{ sec} = 5 \text{ mph/sec}$</p>
Experimental or Control Variables			
<p>You would not change these in the experiment: <i>Control</i></p> <p>You would vary this to figure out how it works: <i>Experimental</i></p> <p>You should have only one of these: <i>Experimental</i></p> <p>All the other variables are: <i>CP</i></p>		<p>You are trying to find out if snow shoes help a car stop or more.</p> <p>The amount of snow: <i>CP</i></p> <p>The car used: <i>CP</i></p> <p>The type of tire: <i>EP</i> <i>look along that variable</i></p>	
<p style="text-align: center;">Position vs. Time</p>			
<p>Where was the object at 2 seconds? 4 meters</p> <p>When did the object reach 4 meters? 1 seconds</p> <p>Find the slope of the graph (must show work): $\text{Slope} = \text{rise/run} = \Delta y / \Delta x$ $\Delta y = 7 - 4 = 3 \text{ m}$ $\text{slope} = \Delta y / \Delta x = 3 \text{ m/s}$ $\Delta x = 2 - 1 = 1 \text{ sec}$</p> <p>What does the slope you just found stand for? speed</p>			
<p>A girl is ice skating and has 25 kgm/s of momentum. After she bumps into a friend, she has 25 kgm/s of momentum. How much did she give her friend? Use Law of Conservation of Momentum. $25 - 25 = 0 \text{ kgm/s}$</p>			

<p>Which has more inertia: a bus, or a baller? Why? <i>The bus has more mass.</i></p> <p>Which has more momentum: a bus or a fast airplane? Why? <i>A bus is not moving ($v = 0$) vs $p = 0$</i></p> <p>A 3 N book rests on a table. Why doesn't it fall? <i>Newton's 3rd law—table pushes back with $=$ and opposite 3N force.</i></p> <p>When an astronaut lands on the moon, does his mass change? <i>No, mass is not dependent on gravity.</i> Does his weight change? Does his inertia change? <i>Yes, weight is dependent on gravity. No, inertia depends on mass.</i></p>	
<p style="text-align: center;">Which of Newton's Three Laws Applies?</p> <p>3. A rocket moves forward because it pushes out gases from the back.</p> <p>1. It is hard to push a car, then hard to stop it.</p> <p>2. A 50 N force gives more acceleration to a 5 kg object than a 10 kg object.</p>	
<p>Using $g = 10 \text{ m/s}^2$, find the weight of a 5 kg mass. $F_w = mg = (5 \text{ kg})(10 \text{ m/s}^2) = 50 \text{ N}$</p> <p>A person walks 5 m/s for 60 seconds. How far did they walk? $S = D/T$ $D = S \times 60 = 300 \text{ m}$ <i>or, $D = 3T$</i></p> <p>A 45 N force pulls to the left and friction is 15 N. Find the net force. $45\text{N} - 15\text{N} = 30 \text{ N to the left}$</p> <p>What acceleration will the above net force give a 3 kg mass? $F = ma$ $a = 30/3 = 10 \text{ m/s}^2$ <i>or, $30\text{N} = 3(a)$</i></p>	

Gravity Answers Cstephenmurray

Timothy Michaels



Gravity Answers Cstephenmurray:

Gravity Answers Cstephenmurray Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gravity Answers Cstephenmurray**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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