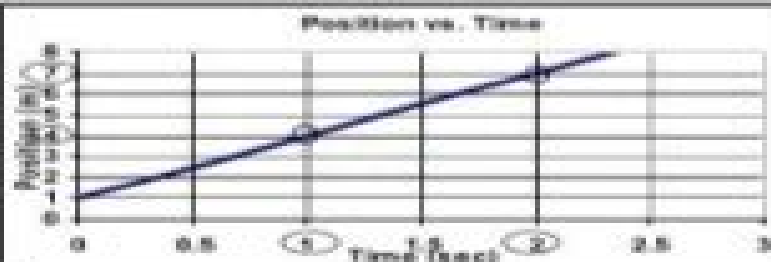


$MA = 5$ F or $F_n = 5 \text{ N}$ d or $k = 5 \text{ m}$ W or $E = 5 \text{ J}$ $R = 5 \text{ }\Omega$ $I = 5 \text{ A}$ $p = 5 \text{ kg/m}^3$ $V = 5 \text{ v}$ $P = 5 \text{ w}$ $f = 5 \text{ Hz}$ $T = 5 \text{ sec}$ $a = 5 \text{ m/s}^2$	5 kg/m^3 $5 \text{ }\Omega$ 5 m 5 5 sec 5 N 5 m 5 A 5 m/s^2 5 v 5 Hz 5 J	Show heat transfer: 20°C $\leftarrow$ 55°C $\rightarrow$ 70°C $\rightarrow$ 55°C $\leftarrow$ Conduction, convection, or radiation? Insulator or Conductor? Metal: C _____ Wood: I _____ Plastic: I _____ Copper: C _____ Paper: I _____ Air: I _____	Find the speed of a bike that travels 120 meters in 20 seconds. $S = D/T = 120 \text{ m} / 20 \text{ sec} = 6 \text{ m/s}$ 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> <i>So</i> $S = \Delta D / \Delta T = 200 \text{ m} / 40 \text{ sec} = 5 \text{ m/s}$ What force results in 5 m/s^2 of acceleration to a 1.5 kg mass? $F = ma = (1.5 \text{ kg}) \times (5 \text{ m/s}^2) = 7.5 \text{ N}$ A car speeds to 250 mph in 50 seconds. Calculate acceleration. $a = \Delta D / \Delta T = 250 \text{ mph} / 50 \text{ sec} = 5 \text{ mph/sec}$
Experimental or Control Variables			
You would not change these in the experiment: <i>Control</i> You would vary this to figure out how it works: <i>Experimental</i> You should have only one of these: <i>Experimental</i> All the other variables are: <i>CP</i>		You are trying to find out if snow shoes help a car stop or more. The amount of snow: <i>CP</i> The car used: <i>CP</i> The type of tire: <i>EP</i> <i>look along that variable</i>	
Position vs. Time 			
Where was the object at 2 seconds? 4 meters When did the object reach 4 meters? 2 seconds Find the slope of the graph (must show work): $\text{Slope} = \text{rise/run} = \Delta y / \Delta x$ $\Delta y = 7 - 4 = 3 \text{ m}$ $\text{slope} = \Delta y / \Delta x = 3 \text{ m/s}$ $\Delta x = 2 - 1 = 1 \text{ sec}$ What does the slope you just found stand for? <i>speed</i>			
A girl is ice skating and has 35 kgm/s of momentum. After she bumps into a friend, she has 25 kgm/s of momentum. How much did she give her friend? <i>Use Law of Conservation of Momentum.</i> $35 - 25 = 10 \text{ kgm/s}$			

Which has more inertia: a bus, or a baller? Why? <i>The bus has more mass.</i> Which has more momentum: a bus or a fast airplane? Why? <i>A bus is not moving ($v = 0$) vs $p = 0$</i> A 3 N book rests on a table. Why doesn't it fall? <i>Newton's 3rd law—table pushes back with $=$ and opposite ΔN force.</i> 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>
Which of Newton's Three Laws Applies?
3. _____ A rocket moves forward because it pushes out gases from the back. 1. _____ It is hard to push a car, then hard to stop it. 2. _____ A 50 N force gives more acceleration to a 5 kg object than a 10 kg object.
Using $g = 10 \text{ m/s}^2$, find the weight of a 5 kg mass. $F_w = mg = (5 \text{ kg})(10 \text{ m/s}^2) = 50 \text{ N}$ 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> A 45 N force pulls to the left and friction is 15 N. Find the net force. $45\text{N} - 15\text{N} = 30 \text{ N to the left}$ 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>

The Atom Cstephenmurray Answers

Francis Preston Venable



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The Structure of the Atom Stephen Miall, 1922 **The Atom Uncovered** Mark Andrew Newstead, Stephen Charles Newstead, 2010 In this book we show how electromagnetic waves can form the sub atomic particles i e the proton neutron and electron as well as how these can fit together to form the nuclei of atoms and of all their isotopes From this we are able to combine the weak and strong force into the electromagnetic force **The Question of the Atom** Mary J. Nye, 1983-01-01 *The Structure of the Atom* Stephen Miall, 1922 *Atom* Jack Challoner, 2018-09-06 Until now popular science has relegated the atom to a supporting role in defining the different chemical elements of the periodic table This bold new title places its subject center stage shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify The book covers a huge range of topics including the development of scientific thinking about the atom the basic structure of the atom how the interactions between atoms account for the familiar properties of everyday materials the power and mystery of the atomic nucleus and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality Sparkling text banishes an outdated world of dull chemistry as it brightly introduces the reader to what everything is made of and how it all works on the most fundamental level *Taming the Atom* Hans Christian Von Baeyer, 1995-10-01 Fascinating accessible study covers the components of the atom quantum mechanics the atomic landscape atoms in isolation quantum reality and more Lucid and entertaining The New York Times Book Review *The Atom* George Paget Thomson, 1962 **Questions and Answers on the Atom for Progress and Peace** , 1954 *Atom (Icon Science)* Piers Bizony, 2017-05-04 Riddled with jealousy rivalry missed opportunities and moments of genius the history of the atom s discovery is as bizarre as capricious and as weird as the atom itself John Dalton gave us the first picture of the atom in the early 1800s Almost 100 years later the young misfit New Zealander Ernest Rutherford showed the atom consisted mostly of space and in doing so overturned centuries of classical science It was a brilliant Dane Neils Bohr who made the next great leap into the incredible world of quantum theory Yet he and a handful of other revolutionary young scientists weren t prepared for the shocks Nature had up her sleeve This insightful compelling book New Scientist reveals the mind bending discoveries that were destined to upset everything we thought we knew about reality and unleash a dangerous new force upon the world Even today as we peer deeper and deeper into the atom it throws back as many questions at us as answers **The Mysteries of the Atom** Harold Albert Wilson, 1934 *The Study of the Atom* Francis Preston Venable, 1904 **Introducing the Atom** Roslyn D. Leeds, 1967 An introduction to nuclear physics through a definition of the atom and an analysis of its functions and behavior Includes a biographical listing of major scientists who have contributed to the field of nuclear physics as well as a glossary of terms **Questions and Answers on the Atom for Progress and Peace** , 1954 **The Britannica Guide to the Atom** Britannica Educational Publishing, 2010-10-01 Common to all matter and its smallest and most fundamental unit the atom determines the properties

of a substance and how it responds to other materials and stimuli Dividing the atom further reveals several smaller particles whose activity forms the heart of nuclear physics Readers will discover the structure of the atom as well as the ways in which its electrons protons and neutrons facilitate both radioactivity and nuclear reactions both of which have been crucial to technological advancements since the 20th century **The HISTORY of the ATOM the PERIODIC TABLE and RADIOACTIVITY** Alex Kimmons,2021-05-15

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