



Topic	Kinder §112.2	1st §112.3	2nd §112.4	3rd §112.5	4th §112.6	5th §112.7	6th §112.26	7th §112.27	8th §112.28	Biology §112.42	IPC §112.44	Chemistry §112.43	Physics §112.45	Earth Systems §112.49	Environmental Science §112.50	Aquatic Science §112.47	Astronomy §112.48
-------	---------------	------------	------------	------------	------------	------------	-------------	-------------	-------------	-----------------	-------------	-------------------	-----------------	-----------------------	-------------------------------	-------------------------	-------------------

													Phy.5.F calculate the effect of forces on objects, including tension, friction, normal, gravity, centripetal, and applied forces, using free body diagrams and the relationship between force and acceleration as represented by Newton's second law of motion;				
													Phy.6.B identify and describe examples of electric and magnetic forces and fields in everyday life such as generators, motors, and transformers;				
													Phy.6.A use scientific notation and predict how the magnitude of the electric force between two objects depends on their charges and the distance between their centers using Coulomb's law;				

	1.7A explain how pushes and pulls can start, stop, or change the speed or direction of an object's motion;						6.7.B calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced;		8.7.A calculate and analyze how the acceleration of an object is dependent upon the net force acting on the object and the mass of the object using Newton's Second Law of Motion;				Phy.5.E explain and apply the concepts of equilibrium and inertia as represented by Newton's first law of motion using relevant real world examples such as rockets, satellites, and automobile exa _0 1 Tf ()TJ				
--	--	--	--	--	--	--	---	--	--	--	--	--	---	--	--	--	--

AP Physics 2

												<p>Phy.8.F investigate the emission spectra produced by various atoms and explain the relationship to the electromagnetic spectrum;</p> <p>Phy.9.A describe the photoelectric effect and emission spectra produced by various atoms and how both are explained by the photon model for light;</p>				
<p>Sound</p>		<p>2.8.A demonstrate and explain that sound is made by vibrating matter and that vibrations can be caused by a</p>	<p>Phy.9.A by</p>													

Quantum Physics													Phy.9.D give examples of applications of quantum phenomena, including the Heisenberg uncertainty principle, quantum computing, and cybersecurity.				
Conservation of Charge													Phy.6.C investigate and describe conservation of charge during the processes of induction, conduction, and polarization using different materials such as electrosopes, balloons, rods, fur, silk, and Van de Graaf generators;				
Key	SE containing blue text aligns with more than one topic. The black text is relevant to the topic in that row.																
Copyright © Texas Education Agency, 2022. All rights reserved.																	