Physics for Everyday Living Timeline

Content Area:

Science

Course(s): Time Period:

36 Weeks

Length: Status:

180 Days Awaiting Review

ysics for Everyday Livin Unit	Topic	Days
	-	•
1. Introducing Physics	Making measurements	15
	Creating models	
	Creaming models	
	Physical quantities	
	Units	
	Creating testing experiments	
	from observations	
	Hom observations	
	Hypothesis and prediction	
2. Kinematics	Reference frames	30
	Quantities of motion (position,	
	displacement, distance and path	
	length)	
	Rate of change and ratios	
	Velocity	
	Acceleration	
	Graphing motion	
	Motion Diagrams	
	Vectors	2.5
3. Newtonian Mechanics	Systems	35
	Forces	
	Force Diagrams Newton's First Law	
	Sum of Forces	
	Newton's Second Law	
	Gravitational Force Law	
	Newton's Third Law	
	Friction	
	Testing Experiments	
4. Torque	Torque	15
•	Forces in Two Dimensions	
	Equilibrium	
	Center of Mass	
	Rigid Bodies	
5. Impulse and Momentum	Conservation of Mass	25
	Conservation of Momentum	
	Impulse	
	Collisions	
	Systems	

	Momentum Bar Charts	
6. Work and Energy	Gravitational Potential Energy	30
	Kinetic Energy	
	Elastic Potential	
	Chemical and Thermal Energy	
	Internal Energy	
	Work	
	Energy Bar Charts	
	Conservation of Energy	
	Charged Objects	
	Electricity	
	Conductors and Insulators	
	Electric Forces	
	Coulomb's Law	
7. Electricity and Magnetism	Electric Potential Energy	35
	Circuits	
	Voltage	
	Current	
	Resistance	
	Ohm's Law	

Optional Course of Study/Topical Outline with Timeline

Unit	Topic	Days