

2010-11 Physics

Month/Year	Science Content Topic	PASS Skills	Activities/ Labs/ Assessments	College Readiness Standard/ Score Range
August 2010	1st 9 weeks Intro to Physics as a science Scientific Method Science Safety SI Units, conversions, sig figs Intro to Motion: Speed, Velocity Line Graph/ Slope: x vs. t , v vs t Kenematic Problems	C1.1	Putnam City Science Safety Test CHP Grand Prix (Jan) (Emma) Match the Graph (w/ goMotion) (Emma) Constant Change in Velocity (Jan)	24-27+ 28-32 24-27+

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September 2010	Acceleration/ Free Fall	C1.1, C1.2	Reaction Time (book)	24-27+
	Vector/ Vector addition		Object Free Fall (w. drag)	20-23
	Relative Motion		Boat on a river http://qbx6.ltu.edu/s_schneider/physlets/main/boatriver1.shtml	20-23

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October 2010	Projectile Motion	C 1.1, C1.2	Bull's Eye (book)	20-23
			Horizontally projected object	28-32
	Newton's 1st and 2nd Laws		Motion of an Arrow (Jan)	24-27
			*Trebuchet (Science Olympiad Trajectory)	28-32

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November 2010	Newtons Laws	C1.1	Spring Scale Lab (Emma)	24-27
			Elastic Pendulum/ inertia (Emma)	20-23
			Inertia vs Friction (Emma)	20-23
			Forces in an Elevator (Jan)	28-32
			Hovercraft (Jan)	20-23

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December 2010	Momentum	C1.1, C1.2	Tailgated by a dart (Jan) Momentum Bashing (Lab book) Momentum, Energy, and Collisions (Jan) Demonstration of Foucault Pendulum (Emma)	16-19 (needs modification) 16-19 24-27 24-27

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January 2011	PE/ KE Chapter 16 - $E=mc^2$ Heat temperature	2.1, 2.2, 2.3	Energy Loss on a Curved Ramp (Jan) Momentum, Energy, and Collisions Shake'n Things (book) (Emma) Mixing ice and salt (Emma)	20-23 24-27 24-27 20-23

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February 2011	Circular Motion centripetal force/ acceleration Rotational Motion	C2.1,	roller coaster centripetal force Swing Ride Demonstrator (Jan) Penny on a Turntable (Jan)	24-27 28-32 24-27 24-27

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March	<p>Universal Gravitation</p> <p>Coulomb's Law</p> <p>Electromagnetic induction</p>	<p>C1.1, C1.2, C2.1, C2.2</p> <p>C1.3</p> <p>C1.4, C3.2</p>	<p>Ocean Tides</p> <p>we'll make something up</p>	<p>20-23</p>

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April	Waves	C3.1	Earthquakes Interference speed of sound microwave oven	

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May	Geometric Optics (lenses and mirrors)			