Puhsd Physics 1-2 Scope and Sequence 2014-15

Quarter 1	Quarter 2	Quarter 3	Quarter 4
Unit 1: Mechanics	Unit 2: Mechanics	Unit 3: Circular	Unit 4: Waves and
		Motion	Electricity
Energy	Forces (cont.)		
1,2,3s & Storage	Newton's 1 st Law	Projectile Motion	Waves
Conservation	Newton's 2nd Law	Vector Components	Energy Transmission
Bar & Pie Charts	Newton's 3 rd Law	Applying Newton's Laws	Mechanical Waves
	Vectors		Sound
Motion	Force Diagrams	Torque	Superposition
Velocity	Statics	Lever Arm & Force	
Acceleration	Dynamics	Axis of Rotation	Electricity
Graphing	Atwood Machine	Static Equilibrium	Electrostatics
Motion Maps	Free fall		Closed Loop Model
·		Angular Momentum	Charge Flow and Sources of
Forces	Energy	Moment of Intertia	Charge Model
Newton's 1 st Law	Kinetic, Potential, Elastic	Rotation	Resistance Model
Vectors	Conservation	Angular Velocity	Compressible Fluid Model
Force Diagrams	Bar & Pie Charts	Angular Acceleration	Ohm's Law
Statics		Conservation	Kirchoff's Rules
Dynamics	Momentum		Title of the states
Atwood Machine	Inelastic Collisions	Circular Motion	
	Elastic Collisions	Centripetal Force &	
Momentum	Conservation	Acceleration	
Conservation	Impulse	Universal Gravity	
		Kepler's Laws (I and II)	
		, ,	Vocabulary & Literacy
Vocabulary & Literacy	Vocabulary & Literacy	Vocabulary & Literacy	Strategies
Strategies	Strategies	Strategies	Narrative, Graphical, and
 Narrative, Graphical, and Mathematical Models 	Narrative, Graphical, and Mathematical Models	Narrative, Graphical, and Mathematical Models	Mathematical Models • Utilization of Sensors to Collect
Utilization of Sensors to Collect	Utilization of Sensors to Collect	Utilization of Sensors to Collect	Experimental Data
Experimental Data	Experimental Data	Experimental Data	Computer Simulations
Computer Simulations	Computer Simulations	Computer Simulations	_
		• Castles 'n Coasters Field Trip (or	
		Magic Mountain, etc.)	