

Seventh Grade
PA Academic Standards at the Lancaster Science Factory Exhibits
Physics

Organizing category (B) under standard category Physical Sciences: Chemistry and Physics (3.2.)

[X] = this exhibit essentially fulfills the standard statement however the exhibit may require additional explanation from the teacher.

Topic	Exhibit	The Strands			
		1. Force & Motion of Particles and Rigid Bodies	2. Energy Storage and Transformations: Conservation Laws	4. Electrical and Magnetic Energy	5. Nature of Waves (Sound and Light Energy)
Acoustics	Physics of Sound: Bongophone		[X]		[X]
	Physics of Sound: Drumbone		[X]		[X]
	Whisper Dishes				X
	Whisper Tubes				X
Energy and Magnetism	Crank Power		X	X	
	Electrical Circuit		X	X	
	Electrical Conductors & Insulators		[X]	[X]	
	Light It Up		X		
Fluid Dynamics	Airplay	[X]			
	Flight Deck	[X]			
	Tennis Ball Launcher	[X]			
	Minimal Surfaces				[X]
	Parachute Launcher	[X]			
Light and Vision	Benham Disk				[X]
	Color Filters				X
	Light Room: Color Change-Up				X
	Light Room: Colored Shadows				X
	Light Room: Lenses, Mirrors and Filters				X
Mechanics and Motion	Gear Power	[X]			
	Gravity Racer	[X]	X		
	Gravity Well	X			
	Kinetic Energy Machine		X		
	Pendulum Booth: Compare Amplitude/Mass/Length	[X]			
	Pendulum Booth: Magnetic Pendulum	[X]			
	Pendulum Booth: Pegboard Pendulum	X			
	Pendulum Booth: Pendulum Snake	[X]			
	Pendulum Booth: Sand Pendulums	[X]			
	Race Track Table: Galileo Track	X	X		
	Race Track Table: High Road ~ Hilly Road	[X]	X		
	Race Track Table: High Road ~ Low Road	[X]	X		
	Race Track Table: Identical Tracks	[X]	X		
	Roller Coaster	X	X		
Super Bounce	[X]	X			
Puzzles and Brain Teasers	K'NEX Mini-Racers	[X]	[X]		
Structural Engineering	Earthquake		[X]		