

Third Grade
PA Academic Standards at the Lancaster Science Factory Exhibits
 Technology and Engineering Education (Standard category (3.4.)) PART 2

Topic	Exhibit	D. Abilities for a Technological World			E. The Designed World			
		Strand 1. Applying the Design Process	Strand 2. Using and Maintaining Technological Systems	Strand 3. Assessing Impact of Products and Systems	Strand 1. Medical Technologies	Strand 3. Energy and Power Technologies	Strand 4. Information and Communication Technologies	Strand 7. Construction Technologies
Acoustics	Physics of Sound: Bongophone					X implied		
	Physics of Sound: Drumbone					X implied		
	Whisper Dishes					X implied	X implied	
	Whisper Tubes					X implied	X implied	
Energy and Magnetism	Crank Power		X	X		X implied		
	Electrical Circuit		X			X		
	Electrical Conductors & Insulators		X			X		
	Light It Up	X		X		X implied		
	Magnetic Field Visualization: At the Poles		X					
	Magnetic Field Visualization: Liquid Spikes		X					
	Magnetic Field Visualization: Seeing Magnetic Fields		X					
	Magnetic Sculpture		X					
Rockin' Radiation				X	X			
Fluid Dynamics	Airplay		X					
	Dam the Creek		X					
	Tennis Ball Launcher		X			X		
	Parachute Launcher	X						
	Water Table: Hero's Fountain		X					
	Water Table: Water Tornado		X					
Light and Vision	Kaleidoscope			X				
	Light Room: Colored Shadows			X				
	Light Room: Lenses, Mirrors and Filters		X	X	X implied			
	Light Room: Einstein's Face Illusion			X				
	Scope on a Rope			X	X implied			
Mechanics and Motion	Can You Lift 100 Pounds?		X	X		X		
	Gear Power		X part 2	X		X implied		
	Gravity Racer		X	X		X		
	Gravity Well		X					
	Kinetic Energy Machine		X			X		
	Leverage Learning	X	X		X	X implied		
	Newton's Cradle		X	X		X		
	Pendulum Booth: Compare Amplitude/Mass/Length			X				
	Pendulum Booth: Magnetic Pendulum		X					
	Pendulum Booth: Pegboard Pendulum			X				
	Pendulum Booth: Pendulum Snake		X					
	Race Track Table: Galileo Track		X	X		X		
	Race Track Table: High Road ~ Hilly Road		X	X		X		
	Race Track Table: High Road ~ Low Road		X	X		X		
	Race Track Table: Identical Tracks		X	X		X		
Roller Coaster		X	X		X			
Super Bounce		X	X		X			
Puzzles and Brain Teasers	Cyclograph		X					
	K'NEX Building Zone			X				
	K'NEX Mini-Racers	X	X	X		X implied		
Structural Engineering	Earthquake			X				
	Truss Bridge	X		X				X