Connections to Pennsylvania State Math Standards: 4th Grade

Exhibit Module Academic Content Standards Benchmarks 4th Grade	Airplane	Airplane Shooter	Amazing Airways	Archimedes Screw	Bernoulli Fountain	Blue Screen	Brain Quiz	Catenary Arch	Crackle Screen	Echo Tube	Erosion Table	Gear Wall	Hurricane Chamber	Kapla Blocks	Laser Guitar	Lego Table	Magnet Wall	Peakaboo Window	PVC Pipe Organ	Rhythm machine	Stream Table	Video Browser	Water Table/Tide Pool
Number, Number Sense and Operations Standard																							
Develop and explain strategies for performing computations mentally.							X																
Measurement Standard																							
Relate the number of units to the size of the units used to measure an object.								X						X		X							
Demonstrate and describe perimeter as surrounding and area as covering a two-dimensional shape, and volume as filling a three-dimensional object.														X		X					X		X
Identify and select appropriate units to measure:														x		X					X		
Geometry and Spatial Sense Standard																							
Describe, classify, compare and model two- and three-dimensional objects using their attributes.	X	X												X		X							
Identify, describe and use reflections (flips), rotations (turns), and translations (slides) in solving geometric problems; e.g., use transformations to determine if 2 shapes are congruent.								X						X		X							

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Use geometric models to solve problems in other areas of mathematics, such as number (multiplication/division) and measurement (area, perimeter, border).														X		X							
Patterns, Functions and Algebra Standard																							
Describe how a change in one variable affects the value of a related variable; e.g., as one increases the other increases or as one increases the other decreases																				X	X		
Data Analysis and Probability Standard																							
Conduct simple probability experiments and draw conclusions from the results;		X	X		X			X					X			X	X	X				