

Connections to Ohio State Science Standards: Pre-K

Exhibit Module	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	
Academic Content Standards Benchmarks Pre-K																								
Earth and Space Sciences																								
Begin to use terms such as night and day, sun and moon to describe personal observations.																								
Explore and compare changes in the environment over time (e.g. soil erosion, fossils, outdoor temperature).											X											X		
Explore how their actions may cause changes in the environment that are sometimes reversible (e.g. hand in flowing water changes the current) and sometimes irreversible (e.g. rock dropped that breaks).				X	X						X										X		X	
Demonstrate understanding of fast and slow relative to time, motion and phenomena (e.g. ice melting, soil eroding, water running quickly down a steep hill compared to running slowly down a gentle hill).				X	X						X										X		X	
Observe and use language or drawings to describe changes in the weather (e.g. sunny to cloudy day).						X																		
Physical Sciences																								
Explore and identify parts and wholes of familiar objects (e.g., books, toys, furniture).	X																							
Sort familiar objects by one or more property (e.g., size, shape, function).																								

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Demonstrate understanding of motion-related words (e.g., up, down, fast, slow, rolling, jumping, backward, forward).	Explore ways of moving objects in different ways (e.g., pushing, pulling, kicking, rolling, throwing, dropping).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Explore musical instruments and objects and manipulate one's own voice to recognize the changes in the quality of sound (e.g., talk about loud, soft, high, low, fast, slow).	Explore familiar sources of the range of colors and the quality of light in the environment (e.g., prism, rainbow, sun, shadow).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Science and Technology	Identify the intended purpose of familiar tools (e.g., scissors, hammer, paintbrush, cookie cutter). Explore new uses for familiar materials through play, art or drama (e.g., paper towel rolls as kazoo's, pan for a hat).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Exhibit Module							
<p>Academic Content Standards Benchmarks Pre-K</p> <p>Use familiar objects to accomplish a purpose, complete a task or solve a problem (e.g., using scissors to create paper tickets for a puppet show, creating a ramp for a toy truck).</p> <p>Demonstrate the safe use of tools, such as scissors, hammers, writing utensils, with adult guidance.</p>							
	X	X		X	X	X	Airplane
<p>Scientific Inquiry</p> <p>Ask questions about objects, organisms and events in their environment during shared stories, conversations and play (e.g., ask about how worms eat).</p> <p>Show interest in investigating unfamiliar objects, organisms and phenomena during shared stories, conversations and play (e.g., Where does hail come from?).</p> <p>Predict what will happen next based on previous experiences (e.g., when a glass falls off the table and hits the tile floor, it probably will break).</p>							
				X	X	X	Airplane Shooter
				X	X	X	Airplane
				X	X	X	Amazing Airways
				X	X	X	Archimedes Screw
				X	X	X	Bernoulli Fountain
				X	X	X	Blue Screen
				X	X	X	Brain Quiz
	X	X		X	X	X	Catenary Arch
				X	X	X	Crackle Screen
				X	X	X	Echo Tube
	X			X	X	X	Erosion Table
				X	X	X	Gear Wall
				X	X	X	Hurricane Chamber
	X	X		X	X	X	Kapla Blocks
				X	X	X	Laser Guitar
	X	X		X	X	X	Lego Table
	X			X	X	X	Magnet Wall
				X	X	X	Peakboo Window
				X	X	X	PVC Pipe Organ
				X	X	X	Rhythm machine
				X	X	X	Stream Table
				X	X	X	Video Browser
				X	X	X	Water Table/Tide Pool

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Investigate natural laws acting upon objects, events and organisms (e.g., repeatedly dropping objects to observe the laws of gravity, observing the life cycle of insects).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Use one or more of the senses to observe and learn about objects, organisms and phenomena for a purpose (e.g., to record, classify, compare, talk about).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Explore objects, organisms and events using simple equipment (e.g., magnets and magnifiers, standard and non-standard measuring tools).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Begin to make comparisons between objects or organisms based on their characteristics (e.g., animals with four legs, smooth and rough rocks).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Record or represent and communicate observations and findings through a variety of methods (e.g., pictures, words, graphs, dramatizations) with assistance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Scientific Ways of Knowing																							

