

## Connections to Ohio State Science Standards: 9-10

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	Steam Table	Video Browser	Water Table/Tide Pool
<b>Academic Content Standards Benchmarks 9-10</b>																							
<b>Earth and Space Sciences</b>																							
Explain that many processes occur in patterns within the Earth's systems.						X							X										
Explain the processes that move and shape Earth's surface.						X					X		X								X		X
<b>Life Sciences</b>																							
Explain the flow of energy and the cycling of matter through biological and ecological systems.											X		X								X		X
Describe how human activities can impact the status of natural systems.											X		X								X		X
Describe the identifiable physical properties of substances. Explain how changes in these properties can occur without changing the chemical nature of the substance.											X										X		X
Explain the movement of objects by applying Newton's three laws of motion.											X										X		X
Demonstrate that energy can be considered to be whether kinetic or potential.											X										X		X

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Explain how energy may change form or be redistributed but the total quantity of energy is conserved.		X	X	X				X		X	X	X	X	X					X	X	X		X
Demonstrate that waves (e.g., sound, seismic, water and light) have energy and waves can transfer energy when they interact with matter.			X	X	X					X	X				X				X	X	X		X
<b>Science and Technology</b>																							
Explain the ways in which the processes of technological design respond to the needs of society.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Explain that science and technology are interdependent; each drives the other.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Scientific Inquiry</b>																							
Participate in and apply the processes of scientific investigation to create models and to design, conduct, evaluate and communicate the results of these investigations.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Scientific Ways of Knowing</b>																							
Explain that scientific knowledge must be based on evidence, be predictive, logical, subject to modification and limited to the natural world.	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	Airplane	
	Airplane Shooter	Airplane
<b>Academic Content Standards Benchmarks 9-10</b>  Explain how scientific inquiry is guided by knowledge, observations, ideas and questions.  Recognize that scientific literacy is part of being a knowledgeable citizen.	X	X
	X	X
Airplane Shooter	X	X
Amazing Airways	X	X
Archimedes Screw	X	X
Bernoulli Fountain	X	X
Blue Screen	X	X
Brain Quiz	X	X
Catenary Arch	X	X
Crackle Screen	X	X
Echo Tube	X	X
Erosion Table	X	X
Gear Wall	X	X
Hurricane Chamber	X	X
Kapla Blocks	X	X
Laser Guitar	X	X
Lego Table	X	X
Magnet Wall	X	X
Peakaboo Window	X	X
PVC Pipe Organ	X	X
Rhythm machine	X	X
Steam Table	X	X
Video Browser	X	X
Water Table/Tide Pool	X	X