

<b>Adventures in Aeronautics</b>			
<b>2009 Science</b>			
<b>Core Curriculum Content Standards</b>			
<b>New Jersey Science</b>			
<b>Grades 3-4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.A.c	Objects and substances have properties, such as weight and volume, that can be measured using appropriate tools. Unknown substances can sometimes be identified by their properties.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.A.3	Determine the weight and volume of common objects using appropriate tools.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.a	Motion can be described as a change in position over a period of time.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.1	Demonstrate through modeling that motion is a change in position over a period of time.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.b	There is always a force involved when something starts moving or changes its speed or direction of motion. A greater force can make an object move faster and farther.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.2	Identify the force that starts something moving or changes its speed or direction of motion.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.d	Earth pulls down on all objects with a force called gravity. Weight is a measure of how strongly an object is pulled down toward the ground by gravity. With a few exceptions, objects fall to the ground no matter where they are on Earth.
Adventures in Aeronautics	NJ	SCI.3-4.5.2.4.E.4	Investigate, construct, and generalize rules for the effect that force of gravity has on balls of different sizes and weights.
<b>Adventures in Aeronautics</b>			
<b>2009 Science</b>			
<b>Core Curriculum Content Standards</b>			
<b>New Jersey Science</b>			
<b>Grades 5-6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Adventures in Aeronautics	NJ	SCI.5-6.5.2.6.E.2	Describe the force between two magnets as the distance between them is changed.
Adventures in Aeronautics	NJ	SCI.5-6.5.2.6.E.c	Friction is a force that acts to slow or stop the motion of objects.
Adventures in Aeronautics	NJ	SCI.5-6.5.2.6.E.d	Sinking and floating can be predicted using forces that depend on the relative densities of objects and materials.
Adventures in Aeronautics	NJ	SCI.5-6.5.4.6.A.3	Predict what would happen to an orbiting object if gravity were increased, decreased, or taken away.

Adventures in Aeronautics	NJ	SCI.5-6.5.4.6.B.b	Earth's current structure has been influenced by both sporadic and gradual events. Changes caused by earthquakes and volcanic eruptions can be observed on a human time scale, but many geological processes, such as mountain building and the shifting of continents, are observed on a geologic time scale.
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