

Pushing the Envelope			
2005 Science			
Academic Standards			
Nevada Science			
Grades 3-5			
Activity/Lesson	State	Standards	
Types of Engines (pgs. 11-23)	NV	SCI.3-5.P.5.B.1	Students know that, when an unbalanced force is applied to an object, the object either speeds up, slows down, or goes in a different direction.
Types of Engines (pgs. 11-23)	NV	SCI.3-5.P.5.B.2	Students know how the strength of a force and mass of an object influence the amount of change in an object's motion.
Chemistry (pgs. 25-41)	NV	SCI.3-5.P.5.A.1	Students know matter exists in different states (i.e., solid, liquid, gas) which have distinct physical properties.
Chemistry (pgs. 25-41)	NV	SCI.3-5.P.5.A.3	Students know materials can be classified by their observable physical and chemical properties (e.g., magnetism, conductivity, density, and solubility).
Physics and Math (pgs. 43-63)	NV	SCI.3-5.P.5.A.3	Students know materials can be classified by their observable physical and chemical properties (e.g., magnetism, conductivity, density, and solubility).
Physics and Math (pgs. 43-63)	NV	SCI.3-5.P.5.B.1	Students know that, when an unbalanced force is applied to an object, the object either speeds up, slows down, or goes in a different direction.
Physics and Math (pgs. 43-63)	NV	SCI.3-5.P.5.B.2	Students know how the strength of a force and mass of an object influence the amount of change in an object's motion.
Rocket Activity (pgs. 69-75)	NV	SCI.3-5.P.5.B.1	Students know that, when an unbalanced force is applied to an object, the object either speeds up, slows down, or goes in a different direction.
Rocket Activity (pgs. 69-75)	NV	SCI.3-5.P.5.B.2	Students know how the strength of a force and mass of an object influence the amount of change in an object's motion.
Pushing the Envelope			
2005 Science			
Academic Standards			
Nevada Science			
Grades 6-8			
Activity/Lesson	State	Standards	
Types of Engines (pgs. 11-23)	NV	SCI.6-8.P.8.B.3	Students know every object exerts gravitational force on every other object, and the magnitude of this force depends on the mass of the objects and their distance from one another.
Chemistry (pgs. 25-41)	NV	SCI.6-8.P.8.A.1	Students know particles are arranged differently in solids, liquids, and gases of the same substance.
Chemistry (pgs. 25-41)	NV	SCI.6-8.P.8.A.4	Students know atoms often combine to form molecules, and that compounds form when two or more different kinds of atoms chemically bond.

Physics and Math (pgs. 43-63)	NV	SCI.6-8.P.8.B.1	Students know the effects of balanced and unbalanced forces on an object's motion.
Physics and Math (pgs. 43-63)	NV	SCI.6-8.P.8.B.3	Students know every object exerts gravitational force on every other object, and the magnitude of this force depends on the mass of the objects and their distance from one another.
Rocket Activity (pgs. 69-75)	NV	SCI.6-8.P.8.B.1	Students know the effects of balanced and unbalanced forces on an object's motion.
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2005 Science			
Academic Standards			
Nevada Science			
Grades 9-12			
Activity/Lesson	State	Standards	
Types of Engines (pgs. 11-23)	NV	SCI.9-12.P.12.B.4	Students know the strength of the gravitational force between two objects increases with mass and decreases rapidly with distance.
Chemistry (pgs. 25-41)	NV	SCI.9-12.P.12.A.1	Students know different molecular arrangements and motions account for the different physical properties of solids, liquids, and gases.
Chemistry (pgs. 25-41)	NV	SCI.9-12.P.12.A.6	Students know chemical reactions either release or absorb energy.
Chemistry (pgs. 25-41)	NV	SCI.9-12.P.12.A.7	Students know that, in chemical reactions, elements combine in predictable ratios, and the numbers of atoms of each element do not change.
Physics and Math (pgs. 43-63)	NV	SCI.9-12.P.12.B.1	Students know laws of motion can be used to determine the effects of forces on the motion of objects.
Physics and Math (pgs. 43-63)	NV	SCI.9-12.P.12.B.4	Students know the strength of the gravitational force between two objects increases with mass and decreases rapidly with distance.
Rocket Activity (pgs. 69-75)	NV	SCI.9-12.P.12.A.5	Students know chemical reactions can take place at different rates, depending on a variety of factors (i.e. temperature, concentration, surface area, and agitation).
Rocket Activity (pgs. 69-75)	NV	SCI.9-12.P.12.B.1	Students know laws of motion can be used to determine the effects of forces on the motion of objects.