Smart Skies			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AZ	SCI.5.1.3.PO 2	Analyze whether the data is consistent with the proposed explanation that motivated the investigation.
Fly by Math	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
Fly by Math	AZ	SCI.5.5.2.PO 4	Demonstrate effects of variables on an object's motion (e.g., incline angle, friction, applied forces).
Line Up with Math	AZ	SCI.5.5.2.PO 2	Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation).
Line Up with Math	AZ	SCI.5.5.2.PO 4	Demonstrate effects of variables on an object's motion (e.g., incline angle, friction, applied forces).
Smart Skies			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AZ	SCI.6.1.3.PO 3	Evaluate the observations and data reported by others.
Fly by Math	AZ	SCI.6.1.3.PO 5	Analyze the results from previous and/or similar investigations to verify the results of the current investigation.
Fly by Math	AZ	SCI.6.1.4.PO 2	Display data collected from a controlled investigation.
Smart Skies			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AZ	SCI.7.1.3.PO 3	Analyze results of data collection in order to accept or reject the hypothesis.
Fly by Math	AZ	SCI.7.1.3.PO 4	Determine validity and reliability of results of an investigation.
Fly by Math	AZ	SCI.7.1.3.PO 5	Formulate a conclusion based on data analysis.
Fly by Math	AZ	SCI.7.1.4.PO 2	Display data collected from a controlled investigation.
Smart Skies			
2004 Science			

Grade Level Articulations			
Arizona Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AZ	SCI.8.1.3.PO 3.a	Interpret data that show a variety of possible relationships between two variables, including (positive relationship)
Fly by Math	AZ	SCI.8.1.3.PO 4	Formulate a future investigation based on the data collected.
Fly by Math	AZ	SCI.8.5.2.PO 3	Describe how the acceleration of a body is dependent on its mass and the net applied force (Newton's 2nd Law of Motion).
Fly by Math	AZ	SCI.8.5.2.PO 5.a	Create a graph devised from measurements of moving objects and their interactions, including (position-time graphs)
Line Up with Math	AZ	SCI.8.5.2.PO 5.a	Create a graph devised from measurements of moving objects and their interactions, including (position-time graphs)
Smart Skies			
2004 Science			
Grade Level Articulations			
Arizona Science			
Grades 9-12			
Activity/Lesson	**State**	**Standards**	
Fly by Math	AZ	SCI.9-12.1.2.PO 3.c	Design an appropriate protocol (written plan of action) for testing a hypothesis (Determine an appropriate method for recording data (e.g., notes, sketches, photographs, videos, journals (logs), charts, computers/calculators))
Fly by Math	AZ	SCI.9-12.1.3.PO 1.a	Interpret data that show a variety of possible relationships between variables, including (positive relationship)
Fly by Math	AZ	SCI.9-12.5.2.PO 1	Determine the rate of change of a quantity (e.g., rate of erosion, rate of reaction, rate of growth, velocity).
Fly by Math	AZ	SCI.9-12.5.2.PO 2.a	Analyze the relationships among position, velocity, acceleration, and time (graphically)
Fly by Math	AZ	SCI.9-12.5.2.PO 5	Use Newton's 3rd Law to explain forces as interactions between bodies (e.g., a table pushing up on a vase that is pushing down on it; an athlete pushing on a basketball as the ball pushes back on her).
Line Up with Math	AZ	SCI.9-12.5.2.PO 1	Determine the rate of change of a quantity (e.g., rate of erosion, rate of reaction, rate of growth, velocity).