

Smart Skies			
2003 Science			
Content Standards			
New Mexico Science			
Grade 5			
Activity/Lesson	State	Standards	
Fly by Math	NM	SCI.5.1.1.I.2	Use appropriate technologies (e.g., calculators, computers, balances, spring scales, microscopes) to perform scientific tests and to collect and display data.
Fly by Math	NM	SCI.5.1.1.III.2	Use mathematical skills to analyze data.
Fly by Math	NM	SCI.5.1.1.III.3	Make predictions based on analyses of data, observations, and explanations.
Fly by Math	NM	SCI.5.1.1.III.3	Identify forces in nature (e.g., gravity, magnetism, electricity, friction).
Fly by Math	NM	SCI.5.1.1.III.4	Understand that when a force (e.g., gravity, friction) acts on an object, the object speeds up, slows down, or goes in a different direction.
Line Up with Math	NM	SCI.5.1.1.III.4	Understand that when a force (e.g., gravity, friction) acts on an object, the object speeds up, slows down, or goes in a different direction.
Smart Skies			
2003 Science			
Content Standards			
New Mexico Science			
Grade 6			
Activity/Lesson	State	Standards	
Fly by Math	NM	SCI.6.1.1.II.2	Understand that scientific investigations use common processes that include the collection of relevant data and observations, accurate measurements, the identification and control of variables, and logical reasoning to formulate hypotheses and explanations.
Fly by Math	NM	SCI.6.1.1.III.1	Know that every object exerts gravitational force on every other object dependent on the masses and distance of separation (e.g., motions of celestial objects, tides).
Smart Skies			
2003 Science			
Content Standards			
New Mexico Science			
Grade 7			
Activity/Lesson	State	Standards	
Fly by Math	NM	SCI.7.1.1.I.1	Use a variety of print and web resources to collect information, inform investigations, and answer a scientific question or hypothesis.
Fly by Math	NM	SCI.7.1.1.III.2	Use mathematical expressions to represent data and observations collected in scientific investigations.
Smart Skies			

2003 Science			
Content Standards			
New Mexico Science			
Grade 8			
Activity/Lesson	State	Standards	
Fly by Math	NM	SCI.8.I.I.1.2	Use a variety of technologies to gather, analyze and interpret scientific data.
Fly by Math	NM	SCI.8.I.I.1.3	Know how to recognize and explain anomalous data.
Fly by Math	NM	SCI.8.II.I.II.W.6. b	relationship of pitch and loudness of sound to rate and distance (amplitude) of vibration
Fly by Math	NM	SCI.8.II.I.III.F.2	Know that a force has both magnitude and direction.
Fly by Math	NM	SCI.8.II.I.III.F.3	Analyze the separate forces acting on an object at rest or in motion (e.g., gravity, elastic forces, friction), including how multiple forces reinforce or cancel one another to result in a net force that acts on an object.
Fly by Math	NM	SCI.8.II.I.III.M.7	Know that an object's motion is always described relative to some other object or point (i.e., frame of reference).
Fly by Math	NM	SCI.8.II.I.III.M.8. a	Objects in motion will continue in motion and objects at rest will remain at rest unless acted upon by an unbalanced force (inertia).
Fly by Math	NM	SCI.8.II.I.III.M.8. b	If a greater force is applied to an object a proportionally greater acceleration will occur.
Fly by Math	NM	SCI.8.II.I.III.M.8. c	If an object has more mass the effect of an applied force is proportionally less.
Line Up with Math	NM	SCI.8.II.I.III.F.2	Know that a force has both magnitude and direction.
Line Up with Math	NM	SCI.8.II.I.III.M.7	Know that an object's motion is always described relative to some other object or point (i.e., frame of reference).
Smart Skies			
2003 Science			
Content Standards			
New Mexico Science			
Grades 9-12			
Activity/Lesson	State	Standards	
Fly by Math	NM	SCI.9-12.I.I.1.2.c	Identify methods to collect, analyze, and interpret data
Fly by Math	NM	SCI.9-12.I.I.1.3	Use appropriate technologies to collect, analyze, and communicate scientific data (e.g., computers, calculators, balances, microscopes).
Fly by Math	NM	SCI.9-12.I.I.III.1	Create multiple displays of data to analyze and explain the relationships in scientific investigations.
Fly by Math	NM	SCI.9-12.II.I.III.F.2	Know that every object exerts gravitational force on every other object, and how this force depends on the masses of the objects and the distance between them.

Fly by Math	NM	SCI.9-12.II.I.III.F.4	Understand the relationship between force and pressure, and how the pressure of a volume of gas depends on the temperature and the amount of gas.
Fly by Math	NM	SCI.9-12.II.I.III.F.6	Represent the magnitude and direction of forces by vector diagrams.
Fly by Math	NM	SCI.9-12.II.I.III.F.7	Know that when one object exerts a force on a second object, the second object exerts a force of equal magnitude and in the opposite direction on the first object (i.e., Newton's Third Law).
Line Up with Math	NM	SCI.9-12.II.I.III.F.6	Represent the magnitude and direction of forces by vector diagrams.
Line Up with Math	NM	SCI.9-12.II.I.III.F.7	Know that when one object exerts a force on a second object, the second object exerts a force of equal magnitude and in the opposite direction on the first object (i.e., Newton's Third Law).