

Smart Skies			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 5			
Activity/Lesson	State	Standards	
Fly by Math	VA	SCI.5.5.1.g	data are collected, recorded, analyzed, and communicated using proper graphical representations and metric measurements;
Fly by Math	VA	SCI.5.5.1.h	predictions are made using patterns from data collected, and simple graphical data are generated;
Smart Skies			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 6			
Activity/Lesson	State	Standards	
Fly by Math	VA	SCI.6.6.1.g	data are collected, recorded, analyzed, and reported using metric measurements and tools;
Fly by Math	VA	SCI.6.6.1.h	data are analyzed and communicated through graphical representation;
Line Up with Math	VA	SCI.6.6.1.c	scale models are used to estimate distance, volume, and quantity;
Smart Skies			
2010 Science			
Standards of Learning			
Virginia Science			
Grades 7-8 (Physical Science)			
Activity/Lesson	State	Standards	
Fly by Math	VA	SCI.7-8.PS.1.b	Measure length, mass, volume, density, temperature, weight, and force accurately
Fly by Math	VA	SCI.7-8.PS.1.d	Triple beam and electronic balances, thermometers, metric rulers, graduated cylinders, probeware, and spring scales are used to gather data;
Fly by Math	VA	SCI.7-8.PS.1.g	Data tables showing the independent and dependent variables, derived quantities, and the number of trials are constructed and interpreted;
Fly by Math	VA	SCI.7-8.PS.1.h	Data tables for descriptive statistics showing specific measures of central tendency, the range of the data set, and the number of repeated trials are constructed and interpreted;
Fly by Math	VA	SCI.7-8.PS.1.j	Valid conclusions are made after analyzing data;
Fly by Math	VA	SCI.7-8.PS.8.a	Investigate and understand the characteristics of sound waves through wavelength, frequency, speed, amplitude, crest, and trough;

Fly by Math	VA	SCI.7-8.PS.9.a	Investigate and understand the characteristics of transverse waves through wavelength, frequency, speed, amplitude, crest, and trough;
Fly by Math	VA	SCI.7-8.PS.10.a	Investigate and understand the scientific principles of work, force, motion, speed, velocity, and acceleration;
Fly by Math	VA	SCI.7-8.PS.10.b	Identify Newton's laws of motion;
Fly by Math	VA	SCI.7-8.PS.10.c	Investigate and understand forms of energy and how energy is transferred and transformed through work, force, mechanical advantage, efficiency, and power; and
Fly by Math	VA	SCI.7-8.PS.10.d	Technological applications of work, force, and motion.
Line Up with Math	VA	SCI.7-8.PS.8.a	Investigate and understand the characteristics of transverse waves through wavelength, frequency, speed, amplitude, crest, and trough;
Line Up with Math	VA	SCI.7-8.PS.9.a	Investigate and understand the characteristics of transverse waves through wavelength, frequency, speed, amplitude, crest, and trough;
Line Up with Math	VA	SCI.7-8.PS.10.a	Investigate and understand the scientific principles of work, force, motion, speed, velocity, and acceleration;
Line Up with Math	VA	SCI.7-8.PS.10.b	Identify Newton's laws of motion
Line Up with Math	VA	SCI.7-8.PS.10.d	Technological applications of work, force, and motion.