

Smart Skies			
2006 Science			
Grade Level Expectations			
Delaware Science			
Grade 5			
Activity/Lesson	State	Standards	
Fly by Math	DE	SCI.5.1.1.3	Accurately collect data using observations, simple tools and equipment. Display and organize data in tables, charts, diagrams, and bar graphs or plots over time. Compare and question results with and from others.
Fly by Math	DE	SCI.5.1.1.4	Construct a reasonable explanation by analyzing evidence from the data. Revise the explanation after comparing results with other sources or after further investigation.
Fly by Math	DE	SCI.5.1.1.19	Use rulers, meter sticks, tapes, and watches to measure the distance objects travel in a given period of time and how much time it takes for an object to travel a certain distance. Organize the measurements in tables, and construct graphs based on the measurements. Reach qualitative conclusions about the speeds of the objects (faster versus slower).
Line Up with Math	DE	SCI.5.1.1.19	Use rulers, meter sticks, tapes, and watches to measure the distance objects travel in a given period of time and how much time it takes for an object to travel a certain distance. Organize the measurements in tables, and construct graphs based on the measurements. Reach qualitative conclusions about the speeds of the objects (faster versus slower).
Line Up with Math	DE	SCI.5.3.2.1	Use rulers, meter sticks, tapes, and watches to measure the distance objects travel in a given period of time, and how much time it takes for an object to travel a certain distance. Organize the measurements in tables, and construct graphs based on the measurements. Reach qualitative conclusions about the speeds of the objects (faster versus slower).
Smart Skies			
2006 Science			
Grade Level Expectations			
Delaware Science			
Grade 6			
Activity/Lesson	State	Standards	
Fly by Math	DE	SCI.6.1.1.9	Conduct investigations on a moving object and make measurements of time and distance traveled and determine the average speed of moving objects.

Fly by Math	DE	SCI.6.1.1.10	Graph and interpret time versus distance graphs for constant speed. Use the graphs to describe how the position of an object changes in a time interval.
Fly by Math	DE	SCI.6.1.1.11	Describe how the speed of an object depends on the distance traveled and the travel time. Explain how the motion of an object can be described by its position, speed, and direction of motion.
Line Up with Math	DE	SCI.6.1.1.9	Conduct investigations on a moving object and make measurements of time and distance traveled and determine the average speed of moving objects.
Line Up with Math	DE	SCI.6.1.1.10	Graph and interpret time versus distance graphs for constant speed. Use the graphs to describe how the position of an object changes in a time interval.
Line Up with Math	DE	SCI.6.1.1.11	Describe how the speed of an object depends on the distance traveled and the travel time. Explain how the motion of an object can be described by its position, speed, and direction of motion.
Smart Skies			
2006 Science			
Grade Level Expectations			
Delaware Science			
Grade 7			
Activity/Lesson	State	Standards	
Fly by Math	DE	SCI.7.1.1.3	Accurately collect data through the selection and use of tools and techniques appropriate to the investigation. Construct tables, diagrams and graphs, showing relationships between two variables, to display and facilitate analysis of data. Compare and question results with and from other students.
Fly by Math	DE	SCI.7.1.1.4	Form explanations based on accurate and logical analysis of evidence. Revise the explanation using alternative descriptions, predictions, models and knowledge from other sources as well as results of further investigation.
Smart Skies			
2006 Science			
Grade Level Expectations			
Delaware Science			
Grade 8			
Activity/Lesson	State	Standards	

Fly by Math	DE	SCI.8.1.1.3	Accurately collect data through the selection and use of tools and techniques appropriate to the investigation. Construct tables, diagrams and graphs, showing relationships between two variables, to display and facilitate analysis of data. Compare and question results with and from other students.
Line Up with Math	DE	SCI.8.3.1.1	Explain that kinetic energy is the energy an object has because of its motion and identify that kinetic energy depends upon the object's speed and mass.
Smart Skies			
2006 Science			
Grade Level Expectations			
Delaware Science			
Grade 9			
Activity/Lesson	State	Standards	
Fly by Math	DE	SCI.9.1.1.3	Collect accurate and precise data through the selection and use of tools and technologies appropriate to the investigations. Display and organize data through the use of tables, diagrams, graphs, and other organizers that allow analysis and comparison with known information and allow for replication of results.
Fly by Math	DE	SCI.9.1.1.37	Describe the role that forces play when energy is transferred between interacting objects and explain how the amount of energy transferred can be calculated from measurable quantities.