

Courage to Soar			
2006 Science			
Learning Standards			
District of Columbia Science			
Grade 3			
Activity/Lesson	State	Standards	
Kite Flight	DC	SCI.3.1.10	Ask, "How do you know?" in appropriate situations, and attempt reasonable answers when others ask the same question.
Soaring Higher	DC	SCI.3.2.3	Construct something to perform a task, by using commonly available materials, such as paper, cardboard, wood, plastic, or metal, or by using existing objects.
Aviation Pioneers	DC	SCI.3.2.2	Identify and demonstrate how an invention can be used in different ways, such as a radio or a cell phone that can be used to receive both information and entertainment.
Aviation Pioneers	DC	SCI.3.2.3	Construct something to perform a task, by using commonly available materials, such as paper, cardboard, wood, plastic, or metal, or by using existing objects.
Flying a Styrofoam Plane	DC	SCI.3.1.1	Recognize and explain that when a scientific investigation is repeated, carefully and under the same conditions, a similar (but not necessarily identical) result is expected.
Looking for Answers:A research project	DC	SCI.3.1.2	Participate in different types of guided scientific investigations (related to content in this grade), such as observing objects and events and collecting specimens for analysis, including longer-term investigations that take place over several days, weeks, or months.
Looking for Answers:A research project	DC	SCI.3.1.9	Make sketches and write descriptions to aid in explaining procedures or ideas.
The Four Forces of Flight	DC	SCI.3.1.1	Recognize and explain that when a scientific investigation is repeated, carefully and under the same conditions, a similar (but not necessarily identical) result is expected.
Courage to Soar			
2006 Science			
Learning Standards			
District of Columbia Science			
Grade 4			
Activity/Lesson	State	Standards	

Kite Flight	DC	SCI.4.1.2	Explain that clear communication is an essential part of the process of scientific inquiry because it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.
Kite Flight	DC	SCI.4.1.5	Support statements with ideas and data found in print and electronic media, identify and evaluate the sources used, and expect others to do the same.
Soaring Higher	DC	SCI.4.1.2	Explain that clear communication is an essential part of the process of scientific inquiry because it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.
Aviation Pioneers	DC	SCI.4.1.2	Explain that clear communication is an essential part of the process of scientific inquiry because it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.
Aviation Pioneers	DC	SCI.4.2.2	Discuss and give examples of how technologies, such as computers and medical X-rays, have improved the lives of people.
Having the Right Stuff	DC	SCI.4.1.2	Explain that clear communication is an essential part of the process of scientific inquiry because it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.
Looking for Answers:A research project	DC	SCI.4.1.3	Use numerical data to describe and compare objects and events.
Looking for Answers:A research project	DC	SCI.4.1.4	Write descriptions of investigations by using observations as support for explanations.
Looking for Answers:A research project	DC	SCI.4.1.5	Support statements with ideas and data found in print and electronic media, identify and evaluate the sources used, and expect others to do the same.

The Matter of Air	DC	SCI.4.1.1	Recognize and describe how results of similar scientific investigations may turn out differently due to inconsistencies in methods, materials, or observations, or the limitations of the tools used.
The Matter of Air	DC	SCI.4.1.3	Use numerical data to describe and compare objects and events.
The Four Forces of Flight	DC	SCI.4.1.3	Use numerical data to describe and compare objects and events.
The Four Forces of Flight	DC	SCI.4.5.4	Observe and explain that when one object rubs against another (such as one's hands rubbing together) the kinetic energy (energy of motion) is transformed into heat energy.
The Four Forces of Flight	DC	SCI.4.6.8	In spite of some similarities, explain how the electrostatic force and the magnetic force are not the same thing.
Courage to Soar			
2006 Science			
Learning Standards			
District of Columbia Science			
Grade 5			
Activity/Lesson	State	Standards	
Kite Flight	DC	SCI.5.1.2	Explain that predictions can be based on what is known about the past, assuming that conditions are similar.
Kite Flight	DC	SCI.5.1.3	Realize and explain why predictions may be more accurate if they are based on large collections of similar events for statistical accuracy.
Soaring Higher	DC	SCI.5.3.3	Give examples of materials not present in nature that have become available because of science and technology, such as cloth, metal alloys, plastic, ceramics, and concrete.
Soaring Higher	DC	SCI.5.9.1	Explain that objects can move with a very wide range of speeds, with some moving very slowly and some moving too quickly for people to see them.
Aviation Pioneers	DC	SCI.5.3.2	Give examples of advances in technology that have positively and/or negatively affected society.
Aviation Pioneers	DC	SCI.5.3.3	Give examples of materials not present in nature that have become available because of science and technology, such as cloth, metal alloys, plastic, ceramics, and concrete.

Having the Right Stuff	DC	SCI.5.3.1	Give examples of technology, such as telescopes, microscopes, and cameras, that enable scientists and others to observe things that are too small or too far away to be seen without them and to study the motion of objects that are moving very rapidly or are hardly moving.
Flying a Styrofoam Plane	DC	SCI.5.5.7	Explain how global patterns, such as the jet stream and ocean currents, influence local weather and climate in ways that can be measured in terms of temperature, pressure, wind direction and speed, and amounts of precipitation.
Looking for Answers:A research project	DC	SCI.5.1.3	Realize and explain why predictions may be more accurate if they are based on large collections of similar events for statistical accuracy.
The Matter of Air	DC	SCI.5.2.4	Read and follow step-by-step instructions when learning new investigations.
The Matter of Air	DC	SCI.5.2.6	Explain the distortion inherent in using only a portion of the data collected to describe the whole. Understand that it is sometimes acceptable to discard data.
The Four Forces of Flight	DC	SCI.5.1.2	Explain that predictions can be based on what is known about the past, assuming that conditions are similar.
The Four Forces of Flight	DC	SCI.5.2.4	Read and follow step-by-step instructions when learning new investigations.
The Four Forces of Flight	DC	SCI.5.9.6	Demonstrate and explain that things on or near Earth are pulled toward Earth's center by the gravitational force that Earth exerts on them.
Controlling the Plane	DC	SCI.5.1.2	Explain that predictions can be based on what is known about the past, assuming that conditions are similar.
Controlling the Plane	DC	SCI.5.1.3	Realize and explain why predictions may be more accurate if they are based on large collections of similar events for statistical accuracy.