

Courage to Soar			
2006 21st Century Science			
Standards and Objectives			
West Virginia 21st Century Science			
Grade 3			
Activity/Lesson	State	Standards	
Kite Flight	WV	SCI.3.SC.O.3.1.01	Recognize that scientific explanations may lead to new discoveries (e.g., new knowledge leads to new questions).
Kite Flight	WV	SCI.3.SC.O.3.1.04	Demonstrate curiosity, initiative and creativity by planning and conducting simple investigations.
Kite Flight	WV	SCI.3.SC.O.3.1.10	Interpret data presented in a table, graph, map or diagram and use it to answer questions and make predictions and inferences based on patterns of evidence.
Aviation Pioneers	WV	SCI.3.SC.O.3.3.06	Cite examples of the uses of science and technology in common daily events and in the community.
Flying a Styrofoam Plane	WV	SCI.3.SC.O.3.1.09	Apply mathematical skills and use metric units in measurements.
Looking for Answers:A research project	WV	SCI.3.SC.O.3.1.06	Support statements with facts found through research from various sources, including technology.
Looking for Answers:A research project	WV	SCI.3.SC.O.3.1.10	Interpret data presented in a table, graph, map or diagram and use it to answer questions and make predictions and inferences based on patterns of evidence.
The Matter of Air	WV	SCI.3.SC.O.3.1.10	Interpret data presented in a table, graph, map or diagram and use it to answer questions and make predictions and inferences based on patterns of evidence.
Controlling the Plane	WV	SCI.3.SC.O.3.1.10	Interpret data presented in a table, graph, map or diagram and use it to answer questions and make predictions and inferences based on patterns of evidence.
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Grade 4			
Activity/Lesson	State	Standards	
Kite Flight	WV	SCI.4.SC.O.4.1.01	Explain how new discoveries lead to changes in scientific knowledge.
Kite Flight	WV	SCI.4.SC.O.4.1.04	Demonstrate curiosity, initiative and creativity by developing questions that lead to investigations; designing simple experiments; and trusting observations of discoveries when trying new tasks and skills.

Kite Flight	WV	SCI.4.SC.O.4.1.12	Draw and support conclusions, make predictions and inferences based on patterns of evidence (e.g., weather maps, variation of plants, or frequency and pitch of sound).
Aviation Pioneers	WV	SCI.4.SC.O.4.1.09	Construct a hypothesis when provided a problem.
Aviation Pioneers	WV	SCI.4.SC.O.4.3.10	Describe the positive and negative consequences of the application of technology on personal health and the environment.
Flying a Styrofoam Plane	WV	SCI.4.SC.O.4.1.09	Construct a hypothesis when provided a problem.
Looking for Answers:A research project	WV	SCI.4.SC.O.4.1.11	Interpret data presented in a table, graph, or diagram and use it to answer questions and make decisions.
The Matter of Air	WV	SCI.4.SC.O.4.1.09	Construct a hypothesis when provided a problem.
The Matter of Air	WV	SCI.4.SC.O.4.2.22	Predict and investigate the motion of an object if the applied force is changed.
Controlling the Plane	WV	SCI.4.SC.O.4.1.12	Draw and support conclusions, make predictions and inferences based on patterns of evidence (e.g., weather maps, variation of plants, or frequency and pitch of sound).

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Standards and Objectives

West Virginia 21st Century Science			
Grade 5			
Activity/Lesson	State	Standards	
Kite Flight	WV	SCI.5.SC.O.5.1.05	Cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.
Kite Flight	WV	SCI.5.SC.O.5.1.10	Utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
Aviation Pioneers	WV	SCI.5.SC.O.5.1.10	Utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
Aviation Pioneers	WV	SCI.5.SC.O.5.3.05	Research everyday applications and interactions of science and technology.

Aviation Pioneers	WV	SCI.5.SC.O.5.3.07	Explore the connections between science, technology, society and career opportunities.
Having the Right Stuff	WV	SCI.5.SC.O.5.1.04	Compare and contrast the historical significance of scientific discoveries.
The Matter of Air	WV	SCI.5.SC.O.5.1.07	Apply skepticism, careful methods, logical reasoning and creativity in investigating the observable universe.
The Matter of Air	WV	SCI.5.SC.O.5.1.10	Utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
The Four Forces of Flight	WV	SCI.5.SC.O.5.1.10	Utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables).
The Four Forces of Flight	WV	SCI.5.SC.O.5.2.16	Describe how the variables of gravity and friction affect the motion of objects.