

Courage to Soar			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grade 3			
Activity/Lesson	State	Standards	
Kite Flight	AR	SCI.3.NS.1.3.2	Develop questions that guide scientific inquiry
Kite Flight	AR	SCI.3.NS.1.3.8	Use simple equipment, age appropriate tools, technology, and mathematics in scientific investigations (e.g., balances, hand lenses, microscopes, rulers, thermometers, calculators, computers)
Aviation Pioneers	AR	SCI.3.NS.1.3.3.a	Conduct scientific investigations individually and in teams (lab activities)
Having the Right Stuff	AR	SCI.3.NS.1.3.1.c	Communicate observations orally, in writing, and in graphic organizers (Venn diagrams)
Flying a Styrofoam Plane	AR	SCI.3.NS.1.3.3.a	Conduct scientific investigations individually and in teams (lab activities)
Looking for Answers:A research project	AR	SCI.3.NS.1.3.6	Collect and analyze measurable empirical evidence as a team and/or as individuals
The Matter of Air	AR	SCI.3.NS.1.3.3.a	Conduct scientific investigations individually and in teams (lab activities)
The Matter of Air	AR	SCI.3.NS.1.3.7	Make and explain predictions based on prior knowledge
The Four Forces of Flight	AR	SCI.3.NS.1.3.3.a	Conduct scientific investigations individually and in teams (lab activities)
Controlling the Plane	AR	SCI.3.NS.1.3.1.d	Communicate observations orally, in writing, and in graphic organizers (bar graphs)
Controlling the Plane	AR	SCI.3.NS.1.3.7	Make and explain predictions based on prior knowledge
Courage to Soar			
2005 Science			
Curriculum Framework			
Arkansas Science			
Grade 4			
Activity/Lesson	State	Standards	
Kite Flight	AR	SCI.4.NS.1.4.2	Refine questions that guide scientific inquiry
Kite Flight	AR	SCI.4.NS.1.4.1.3	Use simple equipment, age appropriate tools, technology, and mathematics in scientific investigations (e.g., balances, hand lenses, microscopes, rulers, thermometers, calculators, computers)
Soaring Higher	AR	SCI.4.NS.1.4.1.f	Communicate observations orally, in writing, and in graphic organizers (line graphs)

Aviation Pioneers	AR	SCI.4.NS.1.4.3 .a	Conduct scientific investigations individually and in teams (lab activities)
Aviation Pioneers	AR	SCI.4.NS.1.4.9	Identify variables that affect investigations
Having the Right Stuff	AR	SCI.4.NS.1.4.1 .c	Communicate observations orally, in writing, and in graphic organizers (Venn diagrams)
Flying a Styrofoam Plane	AR	SCI.4.NS.1.4.3 .a	Conduct scientific investigations individually and in teams (lab activities)
Flying a Styrofoam Plane	AR	SCI.4.NS.1.4.8	Develop a hypothesis based on prior knowledge and observations
Looking for Answers:A research project	AR	SCI.4.NS.1.4.7	Collect and interpret measurable empirical evidence in teams and as individuals
The Matter of Air	AR	SCI.4.NS.1.4.3 .a	Conduct scientific investigations individually and in teams (lab activities)
The Matter of Air	AR	SCI.4.NS.1.4.8	Develop a hypothesis based on prior knowledge and observations
The Four Forces of Flight	AR	SCI.4.NS.1.4.3 .a	Conduct scientific investigations individually and in teams (lab activities)
The Four Forces of Flight	AR	SCI.4.PS.6.4.1	Investigate the relationship between force and direction
Controlling the Plane	AR	SCI.4.NS.1.4.1 .d	Communicate observations orally, in writing, and in graphic organizers (bar graphs)
Courage to Soar			
2005 Science			
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Grade 5			
Activity/Lesson	State	Standards	
Kite Flight	AR	SCI.5.PS.5.5.1 0	Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter
Kite Flight	AR	SCI.5.PS.6.5.7	Investigate careers, scientists, and historical breakthroughs related to simple machines and potential and kinetic energy
Soaring Higher	AR	SCI.5.NS.1.5.4 .d	Interpret scientific data using (line graphs)
Soaring Higher	AR	SCI.5.PS.5.5.1 0	Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter
Soaring Higher	AR	SCI.5.PS.6.5.7	Investigate careers, scientists, and historical breakthroughs related to simple machines and potential and kinetic energy
Aviation Pioneers	AR	SCI.5.NS.1.5.9	Define and give examples of hypotheses

Aviation Pioneers	AR	SCI.5.PS.5.5.1 0	Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter
Aviation Pioneers	AR	SCI.5.PS.6.5.7	Investigate careers, scientists, and historical breakthroughs related to simple machines and potential and kinetic energy
Aviation Pioneers	AR	SCI.5.ESS.10. 5.6	Investigate careers, scientists, and historical breakthroughs related to planets
Having the Right Stuff	AR	SCI.5.NS.1.5.4 .f	Interpret scientific data using (Venn diagrams)
Having the Right Stuff	AR	SCI.5.PS.5.5.1 0	Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter
Having the Right Stuff	AR	SCI.5.PS.6.5.7	Investigate careers, scientists, and historical breakthroughs related to simple machines and potential and kinetic energy
Flying a Styrofoam Plane	AR	SCI.5.NS.1.5.2 .a	Identify and define components of experimental design used to produce empirical evidence (hypothesis)
Flying a Styrofoam Plane	AR	SCI.5.NS.1.5.2 .b	Identify and define components of experimental design used to produce empirical evidence (replication)
Looking for Answers:A research project	AR	SCI.5.NS.1.5.6	Develop and implement strategies for long-term, accurate data collection
The Matter of Air	AR	SCI.5.NS.1.5.2 .a	Identify and define components of experimental design used to produce empirical evidence (hypothesis)
The Matter of Air	AR	SCI.5.PS.5.5.8	Model the motion and position of molecules in solids, liquids, and gases in terms of kinetic energy
The Matter of Air	AR	SCI.5.PS.5.5.1 0	Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter
The Four Forces of Flight	AR	SCI.5.NS.1.5.2 .b	Identify and define components of experimental design used to produce empirical evidence (replication)
Controlling the Plane	AR	SCI.5.NS.1.5.4 .b	Interpret scientific data using (bar graphs)