

Exploring Aeronautics			
2007 Science			
Curriculum Standards			
Kansas Science			
Grades 5-7			
Activity/Lesson	State	Standards	
Fundamentals of Aeronautics (145-176)	KS	SCI.5-7.2.3.1	identifies the forces that act on an object (e.g., gravity and friction)
Tools of Aeronautics(257-326)	KS	SCI.5-7.5.1.1	identifies appropriate problems for technological design, designs a solution or product, implements the proposed design, evaluates the product, and communicates the process of technological design.
The Tools of Aeronautics	KS	SCI.5-7.5.1.1	identifies appropriate problems for technological design, designs a solution or product, implements the proposed design, evaluates the product, and communicates the process of technological design.
Science of Flight	KS	SCI.5-7.1.1.1	identifies questions that can be answered through scientific investigations.
Science of Flight	KS	SCI.5-7.1.1.2	designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data.
Science of Flight	KS	SCI.5-7.1.2.1	develops questions and adapts (frames) the inquiry process to guide the appropriate type of investigation.
Science of Flight	KS	SCI.5-7.1.3.1	after completing an investigation, generates alternative methods of investigation and/or further questions for inquiry.
Science of Flight	KS	SCI.5-7.1.3.2	evaluates the work of others to determine evidence which scientifically supports or contradicts the results, identifying faulty reasoning or conclusions that go beyond evidence and/or are not supported by data.
Scientific Method(124-144)	KS	SCI.5-7.1.1.1	identifies questions that can be answered through scientific investigations.
Scientific Method(124-144)	KS	SCI.5-7.1.1.2	designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data.
Scientific Method(124-144)	KS	SCI.5-7.1.2.1	develops questions and adapts (frames) the inquiry process to guide the appropriate type of investigation.
Scientific Method(124-144)	KS	SCI.5-7.1.3.1	after completing an investigation, generates alternative methods of investigation and/or further questions for inquiry.
Scientific Method(124-144)	KS	SCI.5-7.1.3.2	evaluates the work of others to determine evidence which scientifically supports or contradicts the results, identifying faulty reasoning or conclusions that go beyond evidence and/or are not supported by data.

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Grades 8-12			
Activity/Lesson	State	Standards	
The Tools of Aeronautics	KS	SCI.8-12.1.1.4	actively engages in conducting an inquiry, formulating and revising his or her scientific explanations and models (physical, conceptual, or mathematical) using logic and evidence, and recognizing that potential alternative explanations and models should be considered.
Science of Flight	KS	SCI.8-12.1.1.1	actively engages in asking and evaluating research questions.
Science of Flight	KS	SCI.8-12.1.1.2	actively engages in investigations, including developing questions, gathering and analyzing data, and designing and conducting research
Science of Flight	KS	SCI.8-12.7.1.4	recognizes that society helps create the ways of thinking (mindsets) required for scientific advances, both toward training scientists and educating a populace to utilize benefits of science (e.g., standards of hygiene, attitudes toward forces of nature, etc.).
Science of Flight	KS	SCI.8-12.7.1.6	recognizes society's role in supporting topics of research and determining institutions where research is conducted.
Science of Flight	KS	SCI.8-12.7.3.1	demonstrates an understanding of the history of science.
Integrating with Aeronautics	KS	SCI.8-12.7.2.1	understands scientific knowledge describes and explains the physical world in terms of matter, energy, and forces. Scientific knowledge is provisional and is subject to change as new evidence becomes available.
Scientific Method(124-144)	KS	SCI.8-12.1.1.1	actively engages in asking and evaluating research questions.
Scientific Method(124-144)	KS	SCI.8-12.1.1.2	actively engages in investigations, including developing questions, gathering and analyzing data, and designing and conducting research
Scientific Method(124-144)	KS	SCI.8-12.7.2.3	understands scientific knowledge consists of hypotheses, inferences, laws, and theories.
Scientific Method(124-144)	KS	SCI.8-12.7.2.4	understands a testable hypothesis or inference must be subject to confirmation by empirical evidence
Scientific Method(124-144)	KS	SCI.8-12.7.3.2	demonstrates a knowledge that scientific method historically proceeded from an inductive approach rather than a deductive approach.