

Aeronautics Educator Guide

2007 Science

Model Content Standards

Colorado Science			
Grades K-2			
Activity/Lesson	State	Standards	
Air Engines (12-16)	CO	SCI.K-2.1.1	use their senses to make and describe careful observations
Air Engines (12-16)	CO	SCI.K-2.1.2	ask questions and make predictions
Rotor Motor (69-75)	CO	SCI.K-2.1.2	ask questions and make predictions
Making Time Fly (80-86)	CO	SCI.K-2.1.4	record data, report on findings and explain with reasons
Where is North? The Compass Can Tell Us (87-90)	CO	SCI.K-2.1.2	ask questions and make predictions
Dunked Napkin (17-22)	CO	SCI.K-2.1.2	ask questions and make predictions
Dunked Napkin (17-22)	CO	SCI.K-2.1.4	record data, report on findings and explain with reasons
Dunked Napkin (17-22)	CO	SCI.K-2.2.1	solids and liquids (matter) can be identified, compared, sorted/classified by their physical properties (for example: size, shape, texture, flexibility, temperature, color and patterns)
Paper Bag Mask (23-28)	CO	SCI.K-2.1.2	ask questions and make predictions
Paper Bag Mask (23-28)	CO	SCI.K-2.1.3	conduct simple experiments using tools and technology (for example: computers, thermometers, magnifiers, rulers, balances)
Paper Bag Mask (23-28)	CO	SCI.K-2.2.1	solids and liquids (matter) can be identified, compared, sorted/classified by their physical properties (for example: size, shape, texture, flexibility, temperature, color and patterns)
Wind in Your Socks) (29-35)	CO	SCI.K-2.1.1	use their senses to make and describe careful observations
Wind in Your Socks) (29-35)	CO	SCI.K-2.1.2	ask questions and make predictions
Wind in Your Socks) (29-35)	CO	SCI.K-2.1.3	conduct simple experiments using tools and technology (for example: computers, thermometers, magnifiers, rulers, balances)
Wind in Your Socks) (29-35)	CO	SCI.K-2.5.1	basic observable patterns and changes in the world can help to predict future events based on those patterns (for example: seasonal weather patterns, day/night)
Right Flight (52-59)	CO	SCI.K-2.1.2	ask questions and make predictions
Right Flight (52-59)	CO	SCI.K-2.5.1	basic observable patterns and changes in the world can help to predict future events based on those patterns (for example: seasonal weather patterns, day/night)
Delta Wing Glider (60-68)	CO	SCI.K-2.1.2	ask questions and make predictions

Delta Wing Glider (60-68)	CO	SCI.K-2.5.1	basic observable patterns and changes in the world can help to predict future events based on those patterns (for example: seasonal weather patterns, day/night)
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Grades 3-5			
Activity/Lesson	State	Standards	
Air Engines (12-16)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Air Engines (12-16)	CO	SCI.3-5.2.1	objects have physical properties that can be measured (for example: length, mass, volume and temperature)
Air Engines (12-16)	CO	SCI.3-5.2.2	measurable physical properties can be compared before and after effecting a change to verify a change has occurred and used to predict its outcome in similar circumstances
Air Engines (12-16)	CO	SCI.3-5.2.8	changes in speed or direction of motion are caused by forces
Rotor Motor (69-75)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Rotor Motor (69-75)	CO	SCI.3-5.2.8	changes in speed or direction of motion are caused by forces
Flight: Interdisciplinary Learning Activities (76-79)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Flight: Interdisciplinary Learning Activities (76-79)	CO	SCI.3-5.2.8	changes in speed or direction of motion are caused by forces
Where is North? The Compass Can Tell Us (87-90)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Plan to Fly There (97-106)	CO	SCI.3-5.2.8	changes in speed or direction of motion are caused by forces

Dunked Napkin (17-22)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Dunked Napkin (17-22)	CO	SCI.3-5.1.2	select and use appropriate tools and technology to gather and display (for example: graphs, charts, diagrams) quantitative and qualitative data related to an investigation (for example: length, volume, and mass measuring instruments, thermometers, watches, magnifiers, microscopes, calculators, and computers)
Dunked Napkin (17-22)	CO	SCI.3-5.2.2	measurable physical properties can be compared before and after effecting a change to verify a change has occurred and used to predict its outcome in similar circumstances
Paper Bag Mask (23-28)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Paper Bag Mask (23-28)	CO	SCI.3-5.1.2	select and use appropriate tools and technology to gather and display (for example: graphs, charts, diagrams) quantitative and qualitative data related to an investigation (for example: length, volume, and mass measuring instruments, thermometers, watches, magnifiers, microscopes, calculators, and computers)
Paper Bag Mask (23-28)	CO	SCI.3-5.2.1	objects have physical properties that can be measured (for example: length, mass, volume and temperature)
Wind in Your Socks) (29-35)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
Wind in Your Socks) (29-35)	CO	SCI.3-5.1.2	select and use appropriate tools and technology to gather and display (for example: graphs, charts, diagrams) quantitative and qualitative data related to an investigation (for example: length, volume, and mass measuring instruments, thermometers, watches, magnifiers, microscopes, calculators, and computers)
Wind in Your Socks) (29-35)	CO	SCI.3-5.2.1	objects have physical properties that can be measured (for example: length, mass, volume and temperature)

Sled Kite (44-51)	CO	SCI.3-5.1.1	design, plan and conduct a variety of simple investigations (for example: formulate a testable question, state a hypothesis, make systematic observations, develop and communicate logical conclusions based on evidence)
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