

**Aeronautics Educator Guide
2004 Science
Grade Level Expectations
Aeronautics Educator Guide
2004 Science
Grade Level Expectations**

Louisiana Science			
Grade 2			
Activity/Lesson	State	Standards	
Air Engines (12-16)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Air Engines (12-16)	LA	SCI.2.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Air Engines (12-16)	LA	SCI.2.20	Observe and describe differences in motion between objects (e.g., toward/away, cardinal directions)
Rotor Motor (69-75)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Flight: Interdisciplinary Learning Activities (76-79)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
We Can Fly, You and I: Interdisciplinary Learning (107-108)	LA	SCI.2.40	Gather, record, and graph weather data (e.g., precipitation, wind speed, wind direction, temperature) using appropriate instruments
We Can Fly, You and I: Interdisciplinary Learning (107-108)	LA	SCI.2.50	Describe ways in which habitat loss or change can occur as a result of natural events or human impact
Dunked Napkin (17-22)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Dunked Napkin (17-22)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Dunked Napkin (17-22)	LA	SCI.2.4	Predict and anticipate possible outcomes
Dunked Napkin (17-22)	LA	SCI.2.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)

Paper Bag Mask (23-28)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Paper Bag Mask (23-28)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Paper Bag Mask (23-28)	LA	SCI.2.4	Predict and anticipate possible outcomes
Paper Bag Mask (23-28)	LA	SCI.2.17	Use standard tools to measure objects or materials (e.g., ruler, meter stick, measuring tape, pan balance, thermometer, graduated cylinder)
Wind in Your Socks) (29-35)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Wind in Your Socks) (29-35)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Wind in Your Socks) (29-35)	LA	SCI.2.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Wind in Your Socks) (29-35)	LA	SCI.2.7	Measure and record length and temperature in both metric system and U.S. system units
Wind in Your Socks) (29-35)	LA	SCI.2.17	Use standard tools to measure objects or materials (e.g., ruler, meter stick, measuring tape, pan balance, thermometer, graduated cylinder)
Wind in Your Socks) (29-35)	LA	SCI.2.40	Gather, record, and graph weather data (e.g., precipitation, wind speed, wind direction, temperature) using appropriate instruments
Air: Interdisciplinary Learning Activities (36-39)	LA	SCI.2.40	Gather, record, and graph weather data (e.g., precipitation, wind speed, wind direction, temperature) using appropriate instruments
Air: Interdisciplinary Learning Activities (36-39)	LA	SCI.2.41	Analyze recorded daily temperatures and weather conditions from newspapers, television, the Internet, and home/outdoor thermometers
Bag Balloons (40-43)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Bag Balloons (40-43)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Sled Kite (44-51)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations

Sled Kite (44-51)	LA	SCI.2.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Right Flight (52-59)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Right Flight (52-59)	LA	SCI.2.4	Predict and anticipate possible outcomes
Delta Wing Glider (60-68)	LA	SCI.2.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Delta Wing Glider (60-68)	LA	SCI.2.4	Predict and anticipate possible outcomes
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Grade 3			
Activity/Lesson	State	Standards	
Air Engines (12-16)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Air Engines (12-16)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Air Engines (12-16)	LA	SCI.3.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Air Engines (12-16)	LA	SCI.3.13	Identify questions that need to be explained through further inquiry
Rotor Motor (69-75)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Rotor Motor (69-75)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Flight: Interdisciplinary Learning Activities (76-79)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions

Plan to Fly There (97-106)	LA	SCI.3.11	Use a variety of appropriate formats to describe procedures and to express ideas about demonstrations or experiments (e.g., drawings, journals, reports, presentations, exhibitions, portfolios)
Dunked Napkin (17-22)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Dunked Napkin (17-22)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Dunked Napkin (17-22)	LA	SCI.3.4	Predict and anticipate possible outcomes
Dunked Napkin (17-22)	LA	SCI.3.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Dunked Napkin (17-22)	LA	SCI.3.13	Identify questions that need to be explained through further inquiry
Dunked Napkin (17-22)	LA	SCI.3.14	Distinguish between what is known and what is unknown in scientific investigations
Paper Bag Mask (23-28)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Paper Bag Mask (23-28)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Paper Bag Mask (23-28)	LA	SCI.3.4	Predict and anticipate possible outcomes
Paper Bag Mask (23-28)	LA	SCI.3.11	Use a variety of appropriate formats to describe procedures and to express ideas about demonstrations or experiments (e.g., drawings, journals, reports, presentations, exhibitions, portfolios)
Paper Bag Mask (23-28)	LA	SCI.3.13	Identify questions that need to be explained through further inquiry
Wind in Your Socks) (29-35)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Wind in Your Socks) (29-35)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Wind in Your Socks) (29-35)	LA	SCI.3.5	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Wind in Your Socks) (29-35)	LA	SCI.3.13	Identify questions that need to be explained through further inquiry
Wind in Your Socks) (29-35)	LA	SCI.3.49	Describe climate patterns from recorded weather conditions over a period of time

Bag Balloons (40-43)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Bag Balloons (40-43)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Sled Kite (44-51)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Sled Kite (44-51)	LA	SCI.3.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Right Flight (52-59)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Right Flight (52-59)	LA	SCI.3.4	Predict and anticipate possible outcomes
Delta Wing Glider (60-68)	LA	SCI.3.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Delta Wing Glider (60-68)	LA	SCI.3.4	Predict and anticipate possible outcomes
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Grade 4			
Activity/Lesson	State	Standards	
Air Engines (12-16)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Air Engines (12-16)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Air Engines (12-16)	LA	SCI.4.6	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Air Engines (12-16)	LA	SCI.4.14	Identify questions that need to be explained through further inquiry
Air Engines (12-16)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Air Engines (12-16)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence
Rotor Motor (69-75)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations

Rotor Motor (69-75)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Rotor Motor (69-75)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Flight: Interdisciplinary Learning Activities (76-79)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Where is North? The Compass Can Tell Us (87-90)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence
Plan to Fly There (97-106)	LA	SCI.4.26	Measure, record, and graph changes in position over time (e.g., speed of cars, ball rolling down inclined plane)
Dunked Napkin (17-22)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Dunked Napkin (17-22)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Dunked Napkin (17-22)	LA	SCI.4.4	Predict and anticipate possible outcomes
Dunked Napkin (17-22)	LA	SCI.4.6	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Dunked Napkin (17-22)	LA	SCI.4.11	Combine information, data, and knowledge from one or more of the science content areas to reach a conclusion or make a prediction
Dunked Napkin (17-22)	LA	SCI.4.14	Identify questions that need to be explained through further inquiry
Dunked Napkin (17-22)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Paper Bag Mask (23-28)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations

Paper Bag Mask (23-28)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Paper Bag Mask (23-28)	LA	SCI.4.4	Predict and anticipate possible outcomes
Paper Bag Mask (23-28)	LA	SCI.4.8	Measure and record length, temperature, mass, volume, and area in both metric system and U.S. system units
Paper Bag Mask (23-28)	LA	SCI.4.11	Combine information, data, and knowledge from one or more of the science content areas to reach a conclusion or make a prediction
Paper Bag Mask (23-28)	LA	SCI.4.12	Use a variety of appropriate formats to describe procedures and to express ideas about demonstrations or experiments (e.g., drawings, journals, reports, presentations, exhibitions, portfolios)
Paper Bag Mask (23-28)	LA	SCI.4.14	Identify questions that need to be explained through further inquiry
Paper Bag Mask (23-28)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Paper Bag Mask (23-28)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence
Paper Bag Mask (23-28)	LA	SCI.4.21	Use evidence from previous investigations to ask additional questions and to initiate further explorations
Wind in Your Socks) (29-35)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Wind in Your Socks) (29-35)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Wind in Your Socks) (29-35)	LA	SCI.4.6	Use a variety of methods and materials and multiple trials to investigate ideas (observe, measure, accurately record data)
Wind in Your Socks) (29-35)	LA	SCI.4.14	Identify questions that need to be explained through further inquiry
Wind in Your Socks) (29-35)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Wind in Your Socks) (29-35)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence
Wind in Your Socks) (29-35)	LA	SCI.4.21	Use evidence from previous investigations to ask additional questions and to initiate further explorations
Air: Interdisciplinary Learning Activities (36-39)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Bag Balloons (40-43)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations

Bag Balloons (40-43)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Bag Balloons (40-43)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Sled Kite (44-51)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Sled Kite (44-51)	LA	SCI.4.3	Use observations to design and conduct simple investigations or experiments to answer testable questions
Sled Kite (44-51)	LA	SCI.4.16	Select the best experimental design to answer a given testable question
Right Flight (52-59)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Right Flight (52-59)	LA	SCI.4.4	Predict and anticipate possible outcomes
Right Flight (52-59)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence
Delta Wing Glider (60-68)	LA	SCI.4.2	Pose questions that can be answered by using students' own observations, scientific knowledge, and testable scientific investigations
Delta Wing Glider (60-68)	LA	SCI.4.4	Predict and anticipate possible outcomes
Delta Wing Glider (60-68)	LA	SCI.4.18	Base explanations and logical inferences on scientific knowledge, observations, and scientific evidence