Aeronautics Educator Guide			
2007 Mathematics			
Curriculum Standards			
South Carolina Mathematics			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	SC	MA.2.2-5.3	Use appropriate tools to measure objects to the nearest whole unit: measuring length in centimeters, feet, and yards; measuring liquid volume in cups, quarts, and gallons; measuring weight in ounces and pounds; and measuring temperature on Celsius and Fahrenheit thermometers.
Paper Bag Mask (23-28)	SC	MA.2.2-5.3	Use appropriate tools to measure objects to the nearest whole unit: measuring length in centimeters, feet, and yards; measuring liquid volume in cups, quarts, and gallons; measuring weight in ounces and pounds; and measuring temperature on Celsius and Fahrenheit thermometers.
Wind in Your Socks) (29-35)	SC	MA.2.2-5.3	Use appropriate tools to measure objects to the nearest whole unit: measuring length in centimeters, feet, and yards; measuring liquid volume in cups, quarts, and gallons; measuring weight in ounces and pounds; and measuring temperature on Celsius and Fahrenheit thermometers.
Aeronautics Educator Guide			
2007 Mathematics			
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Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	SC	MA.3.3-5.2	Use appropriate tools to measure objects to the nearest unit: measuring length in meters and half inches; measuring liquid volume in fluid ounces, pints, and liters; and measuring mass in grams.
Rotor Motor (69-75)	SC	MA.3.3-6.2	Organize data in tables, bar graphs, and dot plots.
Rotor Motor (69-75)	SC	MA.3.3-6.3	Interpret data in tables, bar graphs, pictographs, and dot plots.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	SC	MA.3.3-5.7	Recall equivalencies associated with time and length: 60 seconds = 1 minute and 36 inches = 1 yard.
Dunked Napkin (17-22)	SC	MA.3.3-6.3	Interpret data in tables, bar graphs, pictographs, and dot plots.

Paper Bag Mask (23-28)	SC	MA.3.3-5.2	Use appropriate tools to measure objects to the nearest unit: measuring length in meters and half inches; measuring liquid volume in fluid ounces, pints, and liters; and measuring mass in grams.
Wind in Your Socks) (29-35)	SC	MA.3.3-5.2	Use appropriate tools to measure objects to the nearest unit: measuring length in meters and half inches; measuring liquid volume in fluid ounces, pints, and liters; and measuring mass in grams.
Right Flight (52-59)	SC	MA.3.3-4.8	Predict the results of one transformation—either slide, flip, or turn—of a geometric shape.
Right Flight (52-59)	SC	MA.3.3-6.6	Predict on the basis of data whether events are likely, unlikely, certain, or impossible to occur.
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Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	SC	MA.4.4-5.1	Use appropriate tools to measure objects to the nearest unit: measuring length in quarter inches, centimeters, and millimeters; measuring liquid volume in cups, quarts, and liters; and measuring weight and mass in pounds, milligrams, and kilograms.
Rotor Motor (69-75)	SC	MA.4.4-6.2	Interpret data in tables, line graphs, bar graphs, and double bar graphs whose scale increments are greater than or equal to 1.
Rotor Motor (69-75)	SC	MA.4.4-6.3	Organize data in tables, line graphs, and bar graphs whose scale increments are greater than or equal to 1.
Plan to Fly There (97-106)	SC	MA.4.4-5.6	Apply strategies and procedures to determine the amount of elapsed time in hours and minutes within a 12-hour period, either a.m. or p.m.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	SC	MA.4.4-5.6	Apply strategies and procedures to determine the amount of elapsed time in hours and minutes within a 12-hour period, either a.m. or p.m.
Dunked Napkin (17-22)	SC	MA.4.4-6.2	Interpret data in tables, line graphs, bar graphs, and double bar graphs whose scale increments are greater than or equal to 1.
Paper Bag Mask (23-28)	SC	MA.4.4-4.3	Predict the results of multiple transformations of the same type—translation, reflection, or rotation—on a two-dimensional geometric shape.

Paper Bag Mask (23-28)	SC	MA.4.4-5.1	Use appropriate tools to measure objects to the nearest unit: measuring length in quarter inches, centimeters, and millimeters; measuring liquid volume in cups, quarts, and liters; and measuring weight and mass in pounds, milligrams, and kilograms.
Wind in Your Socks) (29-35)	SC	MA.4.4-5.1	Use appropriate tools to measure objects to the nearest unit: measuring length in quarter inches, centimeters, and millimeters; measuring liquid volume in cups, quarts, and liters; and measuring weight and mass in pounds, milligrams, and kilograms.
Right Flight (52-59)	SC	MA.4.4-4.3	Predict the results of multiple transformations of the same type—translation, reflection, or rotation—on a two-dimensional geometric shape.
Right Flight (52-59)	SC	MA.4.4-6.6	Predict on the basis of data whether events are likely, unlikely, certain, impossible, or equally likely to occur.