

Aeronautics Educator Guide			
2002 Mathematics			
Content Standards			
New Mexico Mathematics			
Grade 2			
Activity/Lesson	State	Standards	
Air Engines (12-16)	NM	MA.2.2.D.1.3	Pose questions about students' selves and their surroundings and gather data by interviewing, surveying, and making observations to answer the questions posed.
Rotor Motor (69-75)	NM	MA.2.2.D.1.3	Pose questions about students' selves and their surroundings and gather data by interviewing, surveying, and making observations to answer the questions posed.
Where is North? The Compass Can Tell Us (87-90)	NM	MA.2.2.G.2.2	Describe, name, and interpret direction in navigating space and apply ideas about direction and distance.
Plan to Fly There (97-106)	NM	MA.2.2.M.1.5	Identify and use time intervals (e.g., hours, days, weeks, months).
Plan to Fly There (97-106)	NM	MA.2.2.M.2.1	Develop common referents to make comparisons and estimates of length, volume, weight, area, and time.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	MA.2.2.M.1.5	Identify and use time intervals (e.g., hours, days, weeks, months).
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	MA.2.2.M.2.1	Develop common referents to make comparisons and estimates of length, volume, weight, area, and time.
Dunked Napkin (17-22)	NM	MA.2.2.D.3.2	Recognize appropriate conclusions generated from the data collected.
Paper Bag Mask (23-28)	NM	MA.2.2.M.1.6	Select and use appropriate measurement tools (e.g., ruler, yardstick, meter stick).
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Grade 3			
Activity/Lesson	State	Standards	
Air Engines (12-16)	NM	MA.3.3.M.1.2	Choose and use the appropriate units and measurement tools to quantify the properties of objects (e.g., length [ruler], width [ruler], or mass [balance scale]).
Air Engines (12-16)	NM	MA.3.3.M.1.5	Identify properties (e.g., length, area, weight, volume) and select the appropriate type of unit for measuring each property.
Air Engines (12-16)	NM	MA.3.3.M.2.1	Find the area of rectangles using appropriate tools (e.g., grid paper, tiles).
Air Engines (12-16)	NM	MA.3.3.M.2.3	Use appropriate standard units and tools to estimate, measure, and solve problems (e.g., length, area, weight).
Air Engines (12-16)	NM	MA.3.3.D.1.1	Collect and organize data using observations, measurements, surveys, or experiments.

Rotor Motor (69-75)	NM	MA.3.3.D.1.2	Represent data using tables and graphs (e.g., line plots, bar graphs, and line graphs).
Flight: Interdisciplinary Learning Activities (76-79)	NM	MA.3.3.M.1.3	Identify time to the nearest minute (elapsed time) and relate time to everyday events.
Making Time Fly (80-86)	NM	MA.3.3.D.1.1	Collect and organize data using observations, measurements, surveys, or experiments.
Plan to Fly There (97-106)	NM	MA.3.3.M.1.3	Identify time to the nearest minute (elapsed time) and relate time to everyday events.
Plan to Fly There (97-106)	NM	MA.3.3.M.1.4	Identify and use time intervals (e.g., hours, days, weeks, months, years).
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	MA.3.3.M.1.3	Identify time to the nearest minute (elapsed time) and relate time to everyday events.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	MA.3.3.M.1.4	Identify and use time intervals (e.g., hours, days, weeks, months, years).
Dunked Napkin (17-22)	NM	MA.3.3.G.3.1	Predict and describe the results of sliding, flipping, and turning two-dimensional shapes.
Dunked Napkin (17-22)	NM	MA.3.3.D.1.1	Collect and organize data using observations, measurements, surveys, or experiments.
Dunked Napkin (17-22)	NM	MA.3.3.D.1.3.d	use the results to predict future events
Dunked Napkin (17-22)	NM	MA.3.3.D.2.1	Apply and explain the uses of sampling techniques (e.g., observations, polls, tally marks) for gathering data.
Dunked Napkin (17-22)	NM	MA.3.3.D.3.1	Analyze data displayed in a variety of formats to make reasonable inferences and predictions, answer questions, and make decisions.
Dunked Napkin (17-22)	NM	MA.3.3.D.4.2	Predict the outcomes of simple experiments (e.g., coin tossing) and test the predictions using concrete objects (e.g., coins, counters, number cubes, spinners).
Paper Bag Mask (23-28)	NM	MA.3.3.G.1.1.b	identify lines of symmetry in two-dimensional shapes
Paper Bag Mask (23-28)	NM	MA.3.3.G.3.1	Predict and describe the results of sliding, flipping, and turning two-dimensional shapes.
Paper Bag Mask (23-28)	NM	MA.3.3.G.3.2	Identify and describe the line of symmetry in two- and three-dimensional shapes.
Paper Bag Mask (23-28)	NM	MA.3.3.G.4.5	Identify and build three-dimensional objects from two-dimensional representations of that object.
Paper Bag Mask (23-28)	NM	MA.3.3.M.1.2	Choose and use the appropriate units and measurement tools to quantify the properties of objects (e.g., length [ruler], width [ruler], or mass [balance scale]).
Paper Bag Mask (23-28)	NM	MA.3.3.M.1.5	Identify properties (e.g., length, area, weight, volume) and select the appropriate type of unit for measuring each property.
Paper Bag Mask (23-28)	NM	MA.3.3.M.2.1	Find the area of rectangles using appropriate tools (e.g., grid paper, tiles).

Paper Bag Mask (23-28)	NM	MA.3.3.M.2.3	Use appropriate standard units and tools to estimate, measure, and solve problems (e.g., length, area, weight).
Paper Bag Mask (23-28)	NM	MA.3.3.D.1.3.d	use the results to predict future events
Paper Bag Mask (23-28)	NM	MA.3.3.D.3.1	Analyze data displayed in a variety of formats to make reasonable inferences and predictions, answer questions, and make decisions.
Paper Bag Mask (23-28)	NM	MA.3.3.D.4.2	Predict the outcomes of simple experiments (e.g., coin tossing) and test the predictions using concrete objects (e.g., coins, counters, number cubes, spinners).
Wind in Your Socks) (29-35)	NM	MA.3.3.M.1.2	Choose and use the appropriate units and measurement tools to quantify the properties of objects (e.g., length [ruler], width [ruler], or mass [balance scale]).
Wind in Your Socks) (29-35)	NM	MA.3.3.M.1.5	Identify properties (e.g., length, area, weight, volume) and select the appropriate type of unit for measuring each property.
Wind in Your Socks) (29-35)	NM	MA.3.3.M.2.1	Find the area of rectangles using appropriate tools (e.g., grid paper, tiles).
Wind in Your Socks) (29-35)	NM	MA.3.3.M.2.3	Use appropriate standard units and tools to estimate, measure, and solve problems (e.g., length, area, weight).
Wind in Your Socks) (29-35)	NM	MA.3.3.D.1.1	Collect and organize data using observations, measurements, surveys, or experiments.
Wind in Your Socks) (29-35)	NM	MA.3.3.D.2.1	Apply and explain the uses of sampling techniques (e.g., observations, polls, tally marks) for gathering data.
Right Flight (52-59)	NM	MA.3.3.G.3.1	Predict and describe the results of sliding, flipping, and turning two-dimensional shapes.
Right Flight (52-59)	NM	MA.3.3.D.3.1	Analyze data displayed in a variety of formats to make reasonable inferences and predictions, answer questions, and make decisions.
Right Flight (52-59)	NM	MA.3.3.D.4.2	Predict the outcomes of simple experiments (e.g., coin tossing) and test the predictions using concrete objects (e.g., coins, counters, number cubes, spinners).
Delta Wing Glider (60-68)	NM	MA.3.3.G.3.1	Predict and describe the results of sliding, flipping, and turning two-dimensional shapes.
Delta Wing Glider (60-68)	NM	MA.3.3.D.3.1	Analyze data displayed in a variety of formats to make reasonable inferences and predictions, answer questions, and make decisions.
Delta Wing Glider (60-68)	NM	MA.3.3.D.4.2	Predict the outcomes of simple experiments (e.g., coin tossing) and test the predictions using concrete objects (e.g., coins, counters, number cubes, spinners).
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Grade 4			

Activity/Lesson	State	Standards	
Rotor Motor (69-75)	NM	MA.4.4.D.1.2	Design investigations and represent data using tables and graphs (e.g., line plots, bar graphs, line graphs).
Flight: Interdisciplinary Learning Activities (76-79)	NM	MA.4.4.M.2.5	Compute elapsed time and make and interpret schedules.
Plan to Fly There (97-106)	NM	MA.4.4.M.2.5	Compute elapsed time and make and interpret schedules.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	MA.4.4.M.2.5	Compute elapsed time and make and interpret schedules.