

Aeronautics Educator Guide

National Standards

Grades PreK – 2 - Mathematics

Source: National Standards Mathematics 2000

Lesson/Activity	Grades Pre-K - 2 Mathematics Standards
Air Engines (12-16)	pose questions and gather data about themselves and their surroundings;
Dunked Napkin (17-22)	pose questions and gather data about themselves and their surroundings;
Paper Bag Masked (23-28)	pose questions and gather data about themselves and their surroundings;
Wind in you Socks) (29-35)	pose questions and gather data about themselves and their surroundings;
Bag Balloons (40-43)	pose questions and gather data about themselves and their surroundings;
Sled Kite (44-51)	pose questions and gather data about themselves and their surroundings;
Right Flight (52-59)	compare and order objects according to these attributes;
Delta Wing Glider (60-68)	compare and order objects according to these attributes;
Rotor Motor (69-75)	pose questions and gather data about themselves and their surroundings;
Flight: Interdisciplinary Learning Activities (76-79)	count with understanding and recognize "how many" in sets of objects;
Where is North? The Compass Can Tell Us (87-90)	describe, name, and interpret direction and distance in navigating space and apply ideas about direction and distance;
Where is North? The Compass Can Tell Us (87-90)	pose questions and gather data about themselves and their surroundings;
Plan to Fly There (97-106)	recognize the attributes of length, volume, weight, area, and time;
We Can Fly, You and I: Interdisciplinary Learning	recognize the attributes of length, volume, weight, area, and time;

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National Standards

Grades 3 - 5 - Mathematics

Source: National Standards Mathematics 2000

Lesson/Activity	Grades 3 - 5 Mathematics Standards
Air Engines (12-16)	select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles;
Right Flight (52-59)	propose and justify conclusions and predictions that are based on data and design studies to further investigate the conclusions or predictions.
Delta Wing Glider (60-68)	propose and justify conclusions and predictions that are based on data and design studies to further investigate the conclusions or predictions.
Rotor Motor (69-75)	represent data using tables and graphs such as line plots, bar graphs, and line graphs;
Let's Build a Table Top Airport (91-96)	use geometric models to solve problems in other areas of mathematics, such as number and measurement;
Let's Build a Table Top Airport (91-96)	recognize geometric ideas and relationships and apply them to other disciplines and to problems that arise in the classroom or in everyday life.
Plan to Fly There (97-106)	select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles;
We Can Fly, You and I: Interdisciplinary Learning	select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles;