

Aeronautics Educator Guide

2002 Mathematics

Academic Standards

Pennsylvania Mathematics

Grade 3

Activity/Lesson	State	Standards	
Air Engines (12-16)	PA	MA.3.2.3.3.A	Compare measurable characteristics of different objects on the same dimensions (e.g., time, temperature, area, length, weight, capacity, perimeter).
Rotor Motor (69-75)	PA	MA.3.2.6.3.A	Gather, organize and display data using pictures, tallies, charts, bar graphs and pictographs.
Rotor Motor (69-75)	PA	MA.3.2.6.3.B	Formulate and answer questions based on data shown on graphs.
Where is North? The Compass Can Tell Us (87-90)	PA	MA.3.2.6.3.B	Formulate and answer questions based on data shown on graphs.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	PA	MA.3.2.3.3.C	Determine and compare elapsed times.
Dunked Napkin (17-22)	PA	MA.3.2.4.3.A	Make, check and verify predictions about the quantity, size and shape of objects and groups of objects.
Dunked Napkin (17-22)	PA	MA.3.2.6.3.A	Gather, organize and display data using pictures, tallies, charts, bar graphs and pictographs.
Dunked Napkin (17-22)	PA	MA.3.2.8.3.H	Describe and interpret the data shown in tables and charts.
Paper Bag Mask (23-28)	PA	MA.3.2.4.3.A	Make, check and verify predictions about the quantity, size and shape of objects and groups of objects.
Wind in Your Socks) (29-35)	PA	MA.3.2.3.3.A	Compare measurable characteristics of different objects on the same dimensions (e.g., time, temperature, area, length, weight, capacity, perimeter).
Right Flight (52-59)	PA	MA.3.2.4.3.A	Make, check and verify predictions about the quantity, size and shape of objects and groups of objects.
Delta Wing Glider (60-68)	PA	MA.3.2.3.3.H	Demonstrate that a single object has different attributes that can be measured in different ways (e.g., length, mass, weight, time, area, temperature, capacity, perimeter).