Aeronautics Educator Guide			
2002 Science and Technology			
Academic Standards			
Pennsylvania Science and Technology			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	PA	SCT.4.3.1.4.E.2	Examine and explain change by using time and measurement.
Air Engines (12-16)	PA	SCT.4.3.4.4.C.3	Describe various types of motions.
Air Engines (12-16)	PA	SCT.4.3.7.4.B.1	Develop simple skills to measure, record, cut and fasten.
Let's Build a Table Top Airport (91-96)	PA	SCT.4.3.1.4.B.3	Apply appropriate simple modeling tools and techniques.
Let's Build a Table Top Airport (91-96)	PA	SCT.4.3.1.4.D.3	Explain the importance of scale in producing models and apply it to a model.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	PA	SCT.4.3.1.4.B.3	Apply appropriate simple modeling tools and techniques.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	PA	SCT.4.3.1.4.D.3	Explain the importance of scale in producing models and apply it to a model.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	PA	SCT.4.3.5.4.C.2	Identify weather patterns from data charts (including temperature, wind direction and speed, precipitation) and graphs of the data.
Dunked Napkin (17-22)	PA	SCT.4.3.1.4.B.2	Identify and apply models as tools for prediction and insight.
Dunked Napkin (17-22)	PA	SCT.4.3.2.4.C.2	Design an investigation.
Dunked Napkin (17-22)	PA	SCT.4.3.2.4.C.3	Conduct an experiment.
Dunked Napkin (17-22)	PA	SCT.4.3.2.4.C.4	State a conclusion that is consistent with the information.
Paper Bag Mask (23-28)	PA	SCT.4.3.1.4.B.2	Identify and apply models as tools for prediction and insight.
Paper Bag Mask (23-28)	PA	SCT.4.3.7.4.B.1	Develop simple skills to measure, record, cut and fasten.
Wind in Your Socks) (29-35)	PA	SCT.4.3.1.4.C.1	Examine and explain change by using time and measurement.
Wind in Your Socks) (29-35)	PA	SCT.4.3.1.4.E.2	Recognize observational descriptors from each of the five senses (e.g., see-blue, feel-rough)
Wind in Your Socks) (29-35)	PA	SCT.4.3.4.4.B.2	Identify weather patterns from data charts (including temperature, wind direction and speed, precipitation) and graphs of the data.
Right Flight (52-59)	PA	SCT.4.3.1.4.B.1	Identify and apply models as tools for prediction and insight.
Right Flight (52-59)	PA	SCT.4.3.1.4.B.2	Apply appropriate simple modeling tools and techniques.
Right Flight (52-59)	PA	SCT.4.3.1.4.B.3	Identify different types of models.
Delta Wing Glider (60-68)	PA	SCT.4.3.1.4.B.1	Identify and apply models as tools for prediction and insight.
Delta Wing Glider (60-68)	PA	SCT.4.3.1.4.B.2	Apply appropriate simple modeling tools and techniques.