Future Flight Design			
2009 Science			
Essential Knowledge and Skills			
Texas Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	TX	SCI.5.2.C	collect information by detailed observations and accurate measuring;
Air Transportation Problem	TX	SCI.5.2.F	communicate valid conclusions in both written and verbal forms;
Air Transportation Problem	TX	SCI.5.2.G	construct appropriate simple graphs, tables, maps, and charts using technology, including computers, to organize, examine, and evaluate information.
Air Transportation Problem	TX	SCI.5.3.A	in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student;
Aircraft Design Problem	TX	SCI.5.6.D	design an experiment that tests the effect of force on an object.
Future Flight Design			
2009 Science			
Essential Knowledge and Skills			
Texas Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	TX	SCI.6.2.C	collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers;
Air Transportation Problem	TX	SCI.6.2.E	analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
Air Transportation Problem	TX	SCI.6.3.A	in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student;
Air Transportation Problem	TX	SCI.6.3.D	relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.

Aircraft Design Problem	TX	SCI.6.8.B	identify and describe the changes in position, direction, and speed of an object when acted upon by unbalanced forces;
Aircraft Design Problem	TX	SCI.6.8.C	calculate average speed using distance and time measurements;
Aircraft Design Problem	TX	SCI.6.8.D	measure and graph changes in motion;
Aircraft Design Problem	TX	SCI.6.8.E	investigate how inclined planes and pulleys can be used to change the amount of force to move an object.
Future Flight Design			
2009 Science			
Essential Knowledge and Skills			
Texas Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	TX	SCI.7.2.C	collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers;
Air Transportation Problem	TX	SCI.7.2.E	analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
Air Transportation Problem	TX	SCI.7.3.A	in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student;
Air Transportation Problem	TX	SCI.7.3.D	relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.
Future Flight Design			
2009 Science			
Essential Knowledge and Skills			
Texas Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	TX	SCI.8.2.E	analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends.
Air Transportation Problem	TX	SCI.8.2.C	collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers;

Air Transportation Problem	TX	SCI.8.3.A	in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student;
Air Transportation Problem	TX	SCI.8.3.D	relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.
Aircraft Design Problem	TX	SCI.8.6.A	demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion;