

<b>Future Flight Design</b>			
<b>1998 Science</b>			
<b>Academic Standards</b>			
<b>Nebraska Science</b>			
<b>Grades 5-8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	NE	SCI.5-8.8.1.2.A	Collect, manipulate, and analyze data from an experiment.
Air Transportation Problem	NE	SCI.5-8.8.2.1.C	Use appropriate tools and techniques to gather, analyze, and interpret data.
Air Transportation Problem	NE	SCI.5-8.8.2.1.G	Communicate scientific procedures and explanations.
Air Transportation Problem	NE	SCI.5-8.8.6.1.E	Communicate the process of technological design.
Air Transportation Problem	NE	SCI.5-8.8.8.2.B	Use questioning, response to criticism, and open communication when defending a conclusion.
Aircraft Design Problem	NE	SCI.5-8.8.1.1.B	Analyze and predict the interactions within a system and between systems.
Aircraft Design Problem	NE	SCI.5-8.8.1.1.D	Interpret cause and effect relationships within and between systems.
Aircraft Design Problem	NE	SCI.5-8.8.1.3.B	Quantify changes in systems (e.g., magnitude, direction, and rate).
Aircraft Design Problem	NE	SCI.5-8.8.1.4.A	Demonstrate how the design of an object makes it possible for that object to perform a specialized task (e.g., a bicycle or an artificial heart).
Aircraft Design Problem	NE	SCI.5-8.8.3.2.B	Investigate and demonstrate that the speed and/or direction of an object changes when a force is applied to that object.
Aircraft Design Problem	NE	SCI.5-8.8.6.1.A	Identify problems for technological design.
Aircraft Design Problem	NE	SCI.5-8.8.6.1.B	Design a solution or product.
Aircraft Design Problem	NE	SCI.5-8.8.6.1.C	Implement a proposed design.
Aircraft Design Problem	NE	SCI.5-8.8.6.1.D	Evaluate completed technological designs or products.
Aircraft Design Problem	NE	SCI.5-8.8.6.1.E	Communicate the process of technological design.
Aircraft Design Problem	NE	SCI.5-8.8.6.2.A	Distinguish between scientific inquiry (asking questions about the natural world) and technological design (using science to solve practical problems).
Aircraft Design Problem	NE	SCI.5-8.8.6.2.C	Assess the avoidable and unavoidable limits of a technological design.
Aircraft Design Problem	NE	SCI.5-8.8.7.4.B	Describe how perceptions of risks and benefits influence personal and social decision (e.g., seat belt usage and waste disposal procedures).