

<b>Science Grade 6</b> <b>Physical Science: Principles of Flight (FL)</b>					
Outcome		1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4-Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
<b>FL6.1</b> <b>Examine connections between human fascination with flight and technologies and careers based on the scientific principles of flight.</b>	Technologies	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can <b>describe a few</b> traditional <b>OR</b> modern technologies based on the principles of flight.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe a few</b> traditional <b>OR</b> modern technologies based on the principles of flight.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe several</b> traditional <b>AND</b> modern technologies from <b>several</b> cultures based on the principles of flight.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe the effect</b> of traditional <b>AND</b> modern technologies from <b>several</b> cultures based on the principles of flight on the way people work, live, <b>or</b> interact with their environment.</li> </ul>
	Careers	<ul style="list-style-type: none"> <li>• <b>With help</b>, I am able to identify <b>a few</b> opportunities in Canada related to the principles of flight.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some</b> career opportunities in Canada related to the principles of flight.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe many</b> career opportunities in Canada related to the principles of flight, <b>with detail</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>recommend</b> career opportunities in Canada related to the principles of flight, <b>with support</b>.</li> </ul>
Comments					

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<b>Outcome</b>		<p><b>1 - Beginning</b> The student is having difficulty demonstrating an understanding of the concept.</p>	<p><b>2 – Approaching</b> The student is developing an understanding of the concept.</p>	<p><b>3 – Meeting</b> The student consistently demonstrates an understanding of the concept or has achieved the concept.</p>	<p><b>4-Exemplary</b> The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.</p>
<p><b>FL6.2</b> Investigate how the forces of thrust, drag, lift, and gravity act on living things and constructed devices that fly through the air.</p>	Investigate	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes</b> to describe how the forces of thrust, drag, lift, <b>OR</b> gravity act on living things and constructed devices that fly through the air.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes with some accuracy</b> to describe how the forces of thrust, drag, lift, <b>OR</b> gravity act on living things and constructed devices that fly through the air.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out processes accurately</b> to describe how the forces of thrust, drag, lift, <b>AND</b> gravity act on living things and constructed devices that fly through the air.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation</b> to explain how the forces of thrust, drag, lift, and gravity worked in <b>situations of failures in flight</b>.</li> </ul>
	Explain	<ul style="list-style-type: none"> <li><b>With help</b>, I can <b>represent</b> the forces of thrust, drag, lift, and gravity.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>represent</b> the forces of thrust, drag, lift, and gravity.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>explain</b> how forces of thrust, drag, lift, <b>AND</b> gravity act on living <b>AND</b> constructed devices that fly.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare</b> how thrust, drag, lift, and gravity act on both living <b>AND</b> constructed devices that flies.</li> </ul>
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<b>FL6.3 Design a working prototype of a flying object that meets specified performance criteria.</b>	Criteria	<ul style="list-style-type: none"> <li>With help, I can <b>list some criteria</b> for judging performance and aesthetics of a prototype of a flying object.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>list some criteria</b> for judging performance and aesthetics of a prototype of a flying object.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>create criteria</b> for judging the performance and aesthetics of a prototype of a flying object.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>create criteria</b> for judging the performance and aesthetics of a prototype of a flying object, <b>and explain my reasoning.</b></li> </ul>
	Design	<ul style="list-style-type: none"> <li>With help, I can <b>design</b> a working prototype of a flying object to <b>meet some of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design</b> a working prototype of a flying object to <b>meet some of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design</b> a working prototype of a flying object to <b>meet all of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>make changes to the design of a prototype of a working model</b> to improve the flying performance of my prototype, after evaluating it according to the criteria.</li> </ul>
	Construction	<ul style="list-style-type: none"> <li>With help, I can <b>construct</b> a working prototype of a flying object to <b>meet some of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>construct</b> a working prototype of a flying object to <b>meet some of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>construct</b> a working prototype of a flying object to <b>meet all of the established criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>make changes to the construction of a prototype of a working model</b> to improve the flying performance of my prototype, after evaluating it according to the criteria.</li> </ul>
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