



Science Grade 6					
Physical Science: Principles of Flight (FL)					
Outcome		1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
FL6.1 Examine connections between human fascination with flight and technologies and careers based on the scientific principles of flight.	Technologies	<ul style="list-style-type: none"> With help, I can describe a few traditional OR modern technologies based on the principles of flight. 	<ul style="list-style-type: none"> I can describe a few traditional OR modern technologies based on the principles of flight. 	<ul style="list-style-type: none"> I can describe several traditional AND modern technologies from several cultures based on the principles of flight. 	<ul style="list-style-type: none"> I can describe the effect of traditional AND modern technologies from several cultures based on the principles of flight on the way people work, live, or interact with their environment.
	Careers	<ul style="list-style-type: none"> With help, I am able to identify a few opportunities in Canada related to the principles of flight. 	<ul style="list-style-type: none"> I can identify some career opportunities in Canada related to the principles of flight. 	<ul style="list-style-type: none"> I can describe many career opportunities in Canada related to the principles of flight, with detail. 	<ul style="list-style-type: none"> I can recommend career opportunities in Canada related to the principles of flight, with support.
Comments					



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FL6.2 Investigate how the forces of thrust, drag, lift, and gravity act on living things and constructed devices that fly through the air.	Investigate	<ul style="list-style-type: none"> I can carry out simple processes to describe how the forces of thrust, drag, lift, OR gravity act on living things and constructed devices that fly through the air. 	<ul style="list-style-type: none"> I can carry out simple processes with some accuracy to describe how the forces of thrust, drag, lift, OR gravity act on living things and constructed devices that fly through the air. 	<ul style="list-style-type: none"> I can carry out processes accurately to describe how the forces of thrust, drag, lift, AND gravity act on living things and constructed devices that fly through the air. 	<ul style="list-style-type: none"> I can design and carry out an accurate investigation to explain how the forces of thrust, drag, lift, and gravity worked in situations of failures in flight.
	Explain	<ul style="list-style-type: none"> With help, I can represent the forces of thrust, drag, lift, and gravity. 	<ul style="list-style-type: none"> I can represent the forces of thrust, drag, lift, and gravity. 	<ul style="list-style-type: none"> I can explain how forces of thrust, drag, lift, AND gravity act on living AND constructed devices that fly. 	<ul style="list-style-type: none"> I can compare how thrust, drag, lift, and gravity act on both living AND constructed devices that flies.
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FL6.3 Design a working prototype of a flying object that meets specified performance criteria.	Criteria	<ul style="list-style-type: none"> With help, I can list some criteria for judging performance and aesthetics of a prototype of a flying object. 	<ul style="list-style-type: none"> I can list some criteria for judging performance and aesthetics of a prototype of a flying object. 	<ul style="list-style-type: none"> I can create criteria for judging the performance and aesthetics of a prototype of a flying object. 	<ul style="list-style-type: none"> I can create criteria for judging the performance and aesthetics of a prototype of a flying object, and explain my reasoning.
	Design	<ul style="list-style-type: none"> With help, I can design a working prototype of a flying object to meet some of the established criteria. 	<ul style="list-style-type: none"> I can design a working prototype of a flying object to meet some of the established criteria. 	<ul style="list-style-type: none"> I can design a working prototype of a flying object to meet all of the established criteria. 	<ul style="list-style-type: none"> I can make changes to the design of a prototype of a working model to improve the flying performance of my prototype, after evaluating it according to the criteria.
	Construction	<ul style="list-style-type: none"> With help, I can construct a working prototype of a flying object to meet some of the established criteria. 	<ul style="list-style-type: none"> I can construct a working prototype of a flying object to meet some of the established criteria. 	<ul style="list-style-type: none"> I can construct a working prototype of a flying object to meet all of the established criteria. 	<ul style="list-style-type: none"> I can make changes to the construction of a prototype of a working model to improve the flying performance of my prototype, after evaluating it according to the criteria.
Comments					