



Science Grade 9					
Physical Science: Characteristics of Electricity (CE)					
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.
CE9.1 Demonstrate and analyze characteristics of static electric charge and current electricity, including historical and cultural understanding.	Demonstrate	<ul style="list-style-type: none"> • With help, I can outline modern, historical, OR cultural understandings of the characteristics of static and current electricity. 	<ul style="list-style-type: none"> • I can outline modern, historical, OR cultural understandings of the characteristics of static and current electricity. 	<ul style="list-style-type: none"> • I can outline modern, historical AND cultural understandings of the characteristics of static and current electricity. 	<ul style="list-style-type: none"> • I can explain the progression of historical and cultural understandings of static and current electricity to our modern understandings.
	Analyze	<ul style="list-style-type: none"> • I can identify some characteristics of static electricity and current electricity, with help. 	<ul style="list-style-type: none"> • I can identify some characteristics of static electricity and current electricity. 	<ul style="list-style-type: none"> • I can compare the characteristics of static and current electricity. 	<ul style="list-style-type: none"> • I can explain the application of the scientific understanding of static and current electricity to technological problem-solving or decision-making situations.
Comments					



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CE9.2 Analyze the relationships that exist among voltage, current, and resistance in series and parallel circuits.	<ul style="list-style-type: none"> • With help, I can define voltage, current, OR resistance. 	<ul style="list-style-type: none"> • I can define voltage, current, OR resistance. 	<ul style="list-style-type: none"> • I can differentiate voltage, current, AND resistance. 	<ul style="list-style-type: none"> • I can create an analogy to differentiate voltage, current, AND resistance.
	<ul style="list-style-type: none"> • With help, I can describe voltage, current, and resistance as they exist in a parallel circuit OR in a series circuit. 	<ul style="list-style-type: none"> • I can describe voltage, current, and resistance as they exist in a parallel circuit OR in a series circuit. 	<ul style="list-style-type: none"> • I can explain how voltage, current, and resistance relate within a parallel circuit (i.e. directly or inverse) AND a series circuit (i.e. directly or inverse). 	<ul style="list-style-type: none"> • I can compare series and parallel circuits using various representations, such as models, diagrams, or charts.
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CE9.3 Assess operating principles, costs, and efficiencies of devices that produce or use electrical energy.	<ul style="list-style-type: none">I can describe the operating principles, costs, OR efficiencies of a few devices that produce or use electrical energy.	<ul style="list-style-type: none">I can describe the operating principles, costs, AND efficiencies of a few devices that produce or use electrical energy.	<ul style="list-style-type: none">I can explain the strengths and weaknesses of several devices that produce OR use electrical energy, according to the operating principles, costs AND efficiencies.	<ul style="list-style-type: none">I can design a realistic device that produces or uses electrical energy and compare its operating principles, costs, and efficiencies with at least one other device.
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CE9.4 Critique impacts of past, current, and possible future methods of small and large scale electrical energy production and distribution in Saskatchewan.	<ul style="list-style-type: none"> I can describe the impacts of past OR current methods of small AND large scale electrical energy production AND distribution in Saskatchewan. 	<ul style="list-style-type: none"> I can explain the benefits and challenges of the impacts of past AND current methods of small AND large scale electrical energy production AND distribution in Saskatchewan. 	<ul style="list-style-type: none"> I can compare the benefits and challenges of the impacts of past AND current methods of small AND large scale electrical energy production AND distribution in Saskatchewan, with specific detail. 	<ul style="list-style-type: none"> I can defend a detailed plan to improve current methods of small and large scale electrical energy production and distribution in Saskatchewan, with extensive support.
	<ul style="list-style-type: none"> With help, I can propose the impacts of a few possible future methods of small AND large scale electrical energy production AND distribution in Saskatchewan. 	<ul style="list-style-type: none"> I can explain the benefits and challenges of the impacts of possible future methods of small AND large scale electrical energy production AND distribution in Saskatchewan. 	<ul style="list-style-type: none"> I can compare the impacts of several possible future methods of small AND large scale electrical energy production AND distribution in Saskatchewan, with specific detail. 	<ul style="list-style-type: none"> I can defend the impacts of possible future methods of small AND large scale electrical energy production AND distribution in Saskatchewan, with convincing reasoning.
Comments				