Science Grade 9
Physical Science: Characteristics of Electricity (CE)

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.
CE9.1 **Demonstrate and analyze characteristics of static electric charge and current electricity, including historical and cultural understanding.**	**Demonstrate**	• **With help,** I can outline modern, historical, OR cultural understandings of the characteristics of static and current electricity.	• I can outline modern, historical, **OR** cultural understandings of the characteristics of static and current electricity.	• I can outline modern, historical **AND** cultural understandings of the **characteristics of static and current electricity**.	• I can **explain the progression** of historical and cultural understandings of static and current electricity to our modern understandings.
	Analyze	• I can identify some characteristics of static electricity and current electricity, **with help.**	• I can **identify some** characteristics of static electricity and current electricity.	• I can **compare** the characteristics of static and current electricity.	• 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.**	• **With help,** I can define voltage, current, **OR** resistance.	• I can define voltage, current, **OR** resistance.	• I can differentiate voltage, current, **AND** resistance.	• I can create an analogy to differentiate voltage, current, **AND** resistance.
	• With help, I can **describe** voltage, current, and resistance as they exist in a parallel circuit **OR** in a series circuit.	• I can **describe** voltage, current, and resistance as they exist in a parallel circuit **OR** in a series circuit.	• 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).	• 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.**	• I can **describe** the operating principles, costs, **OR** efficiencies of **a few** devices that produce or use electrical energy.	• I can **describe** the operating principles, costs, **AND** efficiencies of **a few** devices that produce or use electrical energy.	• I can **explain the strengths and weaknesses of** several devices that produce **OR** use electrical energy, according to the operating principles, costs **AND** efficiencies.	• 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.**	• I can **describe the impacts of** past **OR** current methods of small **AND** large scale electrical energy production **AND** distribution in Saskatchewan.	• 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.	• 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**.	• 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.**
	• **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.	• 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.	• 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**.	• 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				