

Mini Lesson Plan

Learning Segment Focus: Electricity and Magnetic Lesson 5 of 6

Course & topic addressed: Physical Science/Energy Date 12/13/2020 Grade 4

Students Outcomes

Specific leaning objectives for this lesson.	Students will be able to identify electric current as a source of a magnetic field.
Justify how learning tasks are appropriate using and example of students prior academic learning.	This lesson will allow students to use their writing, listening, and speaking skills. It will allow the teacher to assess what information the students are retaining.

State Academic Content Standards

List the state academic content standards with which this lesson is aligned. Include abbreviation, number & text of the standard(s).	4-PS3-2 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric current.
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Key Vocabulary

What vocabulary terms/content specific terminology must be addresses for students to master the content.	Electric current, electric circuit, electricity, current, charged, electrodes, electrolyte, vibration, static electricity, short circuit, alternating current.
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Materials

Materials needed by teacher for this lesson. (such as books, writing materials, computers, models, colored paper, etc.)	Paper, pen, smart board, projector, internet, Doug unplugged book, toaster, bread
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	Paper, pencil

Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning Activities (Bulleted Style)	Describe what the teacher will be doing and/or students. (Make it detailed)
10 minutes	<p>Introduction:</p> <ul style="list-style-type: none"> Students will give their thoughts on how electricity works They will give examples of what uses electricity. 	<p>I will ask the students to share their thoughts and opinions on how electricity works</p> <p>I will ask the students what they think uses electricity.</p>

	<ul style="list-style-type: none"> Students will watch a short YouTube video on electrical energy. 	I will play a short video giving a brief detail of electrical energy.
25 minutes	<p><u>Introduction:</u></p> <ul style="list-style-type: none"> Students will discuss electrical current. Students will see a demonstration of electricity by using an everyday item. Students will gather in a circle at the front of the room, near the smart board. We will read a book called Doug Unplugged. We will discuss how Doug powered all of his devices and why he decided to unplug. Students will then get a chance to play games on the smart board. (Brain Pop Jr) 	<p>I will discuss the electrical currents with the students and how it works. Such as direct current and alternating currents along with amperes and volts.</p> <p>I will place a toaster near an outlet. I will not have it plugged in. I will get two slices of bread, put them in the toaster and try to press down the lever as if I am making toast. It should not stay down or start toasting because it is not plugged in.</p> <p>I will ask the students why they think that the toaster is not toasting my bread.</p> <p>I will then plug in the toaster and press the lever down. Now the toaster should be getting hot and turning the bread into toast. I will ask the students to explain what happened.</p> <p>After I will read the book Doug Unplugged. I will ask the students their thoughts and opinions as to how Doug powered his electronics. I will also ask their thoughts and opinions as to why Doug unplugged and why they think it is good for him</p> <p>I will then put electricity games on the smart board for the students to choose from and to play. We will continue to play the games for the rest of the class.</p>
5 minutes	<p><u>Closure:</u></p> <ul style="list-style-type: none"> Students will ask any questions that they may have. 	I will answer any questions that students may have.

Accommodations/Modifications

How might I modify instruction for: <i>Remediation?</i> <i>Intervention?</i>	For my students that need modifications, I will have worksheets that has pictures of the electrical process. The worksheets will also have
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<i>IEP/504?</i> <i>LEP/ESL?</i> (All students who have plans mandated by federal and state law.)	definitions and explanations on them. I will also have electricity board games that the students may play with.
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Technology Connections

Technology that will be used during the lesson plan. (Bullet Style)	Doug Unplugged, Smart board, toaster
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