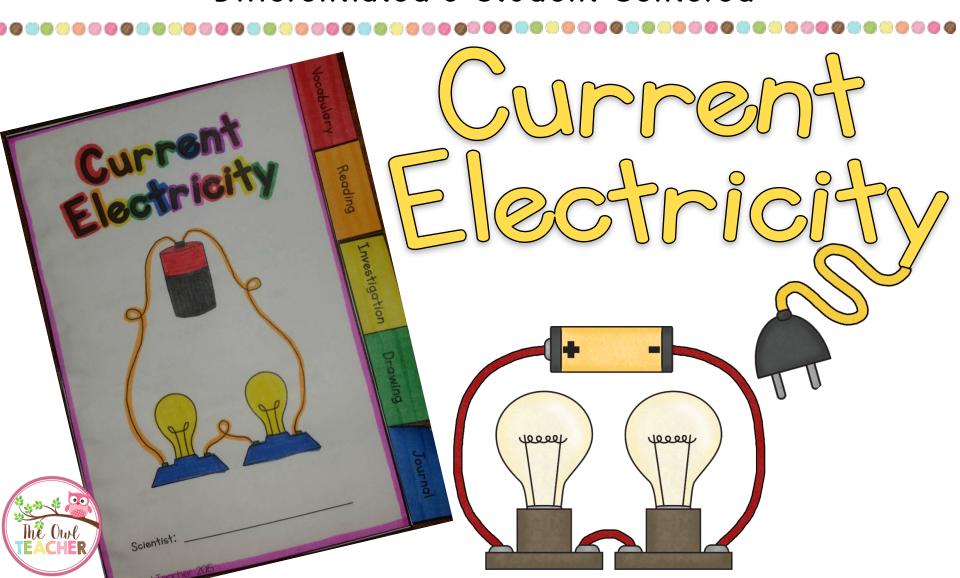
Science Booklets

Differentiated & Student Centered



Teacher's Page

Unfortunately, with the large demands on reading and math from Common Core, science is often pushed to the side. If your district is like mine, you often have very little time to dedicate to science, yet are still expected to fully cover the entire curriculum. This packet was created to help save time and to cover the all important science concepts - all while still meeting the nonfiction criteria of Common Core.

In this packet you will find a mini-book for students to assemble and explore the critical science concepts. It can be used to teach, reinforce, and/or challenge students, all while meeting their needs and learning styles. The reading page has been differentiated for your students with one being a higher level (HL) and the other being a lower level (LL).

The tabs in this booklet can be used as science stations. The first tab contains an important vocabulary activity related to the science concept of current electricity and corresponds with the reading piece provided. The second tab asks comprehension questions related to the reading piece and requires students to support their answers with textual evidence. The third tab focuses on an investigation to deepen the understanding of current electricity and how it works. The fourth tab asks students to draw while the fifth tab prompts students to respond to a thought-provoking journal question.

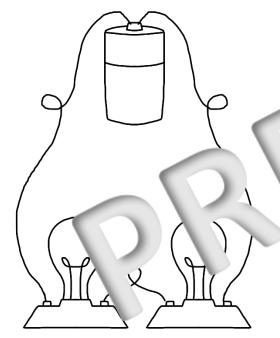
I personally use all of my products in my classroom and can testify to the effectiveness of them.

Easy Use:

- *Print pages 3-5 single sided (two sided copying will not work). Also print page 9 and/or 10 for students to use as their reading piece and page II for station use.
- *After making class copies, provide each student with scissors and a glue stick. You can also staple or tape if you prefer.
- *Have students color before cutting including the tabs. This makes the piece look attractive.
- *Have students cut out all flipbook pages. The cover page goes first. Then the students should line up the tabs for each page, in view, similar to steps.
- *Have students run a line of glue along the left edge of each sheet. When finished the final product should resemble a small tabbed notebook.
- *Have students complete each page individually, in pairs, in groups, or as a whole class. This can also be used in small groups with your direction.

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Current Electricity



Scientist:



Directions: Match each definition the term on the right. Write the letter on the

rgy skirc. A. urrent in cur electr ectricity as nattery.

The object that is B. circuit ing to le Jul energy.

3.) The flow of electrons along a path.

C. load

4.) A circuit with multiple pathways.

D. cell

5.) This turns the flow of energy off and on.

E. switch

6.) A circuit with only F. series one path.

circuit

7.) A form of G. parallel electricity that flows.

circuit

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Reading



Reading

<u>Directions:</u> Read the sheet titled "Being Current with Current Electricity" and then answer the following questions with complete sentences. Be sure to support your answers.

- I.) What is the difference between current electricity and static electricity?
- _____
- 2.) What are all the parts of current electricity?
- 3.) What is the diff nce between a series circuit and a parallel circuit?
- ____

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<u>Directions:</u> Follow the directions on the Investigation sheet and then we say your response below.

I.) While lapped with a piece of which appears to be the first the first section of the second section of the section of the

- 2.) Why do you think this happened?
- _____
- 3.) How is this current electricity?



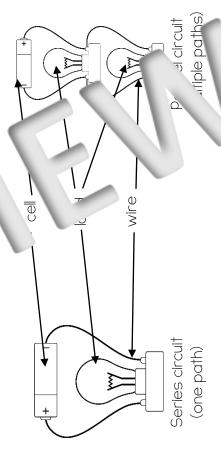
Being Current on Current Electricity

all examples of electriaty - it's everywhere. In fact, it's evision set, your computer, your refrigerator, and your electricity. So if we are completely surrounded by tant to the way we live now, what is it exactly? Je a with electricity and it's Video games. bedroom liah⁺ hard to in

31 July Floor and then touching a doorknob, that is static When you feel a w of electrons along a path called a circuit. nd television all run on current electricity. y that builds up in one place or flows from one is electricity that builds up in one place and ning the opposite charge is near. 1/2 icity is the ectric Electronics such as your vide discharges wher un obj Electricity is a form zap from rubbing your electricity. **Current** e' place to another

, the electrical energy. The energy flow is .gy source, such as a battery or electrical outlet, low (or turns the device on) and closes the ed a cell. Typically a wire connects the This is cell to the load, or the device that is an ei controlled by a switch that opens ath. flow (or turns the device off). to push electrons along it. All circuits need to ho

To understand current electricity, look at the ill tration below:



series circuit only provides one path for the electrons to flow, while a parallel circuit and a parallel circuit. There are two types of current electricity, a series u provides multiple pathways.

Currently Using A Flashlight!

s provided you with needed materials to igation page. These materials should be treated with Jure and left in the station. 7 inv Your te complei

"nd verify that it lights the flashlight. s in the flashlight as directed. itter Then place the lid Step I - Place

yet in Flashlight and insert the sen ine battery and the light bulb lashlight and try to turn it ack on th **Jet** Step 2 - Take oft the Place the lid piece of cardboa, piece. 0

...yution page what Step 3 - Write down on happened. ne cardboard e flashlight ght " Id rem Then place the lid back on and Step 4 - Open the Flashlight again. unlight and sit all Step 5 - Take the batteries out of the the materials in the station for the r

