**Rosa L. Parks Elementary**

**Lesson Plan**

**Media**

**Date:** September 30, 2015

**Grade Level:** 3rd Grade

**Mrs. Prado**

**TOPIC:** How does electricity flow in a circuit?

**STANDARDS:** Standards students will meet:

AASL 1.1.6 Read, view, and listen for information presented in any format (e.g., textual, visual, media, digital) in order to make inferences and gather meaning.

AASL 2.3.1 Connect understanding to the real world.

AASL 3.4.2 Assess the quality and effectiveness of the learning product.

CC6-8RS/TS3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

CC6-8RS/TS9 Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

**OBJECTIVES:** At the end of the 30-min session, the students will be able to

1. Learn how a circuit works by listening to a story and watching a short video in Youtube.
2. Follow the step-by-step procedure in creating the simple circuit activity.
3. Light the LED light emitting diode by creating a circuit.

**OVERVIEW:**

Light bulbs are such an integral part of everyday life that most people can’t imagine being without them. Because people tend to take light bulbs so much for granted, they don’t think about how they work. But light bulbs are an ingenious electrical device. In this lesson, students will learn how to light a LED light emitting diode using a coin battery and a piece of copper wire. Students will be excited that they can get the bulb to light and will be interested in looking for different ways to complete the task.

**CONTEXT:**

This lesson is aligned to their third grade lesson about electricity. Their homeroom teacher has read them two books: When Charlie Mcbutton Lost Power and the Kite that Changed the World.

**MATERIALS:**

Book: “Check it out! Electricity by Clint Twist”, Interest Level K-3

Visualizer

Simple circuit template

[1 LED Circuit Sticker](https://www.crowdsupply.com/chibitronics/circuit-stickers)

[3V coin cell battery](http://www.digikey.com/product-detail/en/CR2032/P189-ND/31939)

binder clip

[conductive copper tape with conductive adhesive](https://www.adafruit.com/products/1128)

pair of scissors

tape

**INSTRUCTIONS:**

**I DO:**

Engagement:

1. Display a circuit board that will light a light bulb. After the teacher shows it, she will call a student to try it.

Transition:

1. Teacher will now read the book, “Electricity : bulbs, batteries, and sparks” by Darlene R. Stille.
2. Teacher asks questions about how electricity works.

**WE DO:**

1. Teacher will now tell the students to get the materials from the middle of the table.
2. Students will watch the how-to video of creating a simple circuit.
3. Students will follow the step-by-step procedures. Teacher will guide them slowly using the visualizer or pausing the video and show everybody how to do the step-by-step procedure.
4. Students will figure out how to turn on the light in the room.

**EVALUATION:**

1. Review what we did, and explain how a circuit works.
2. The teacher checks each student’s work and gives their scores. She makes sure the everyone gets the activity done and everyone will be able to light the LED light before they leave.
3. Students will answer a 2-point rubric next meeting.

|  |  |  |  |
| --- | --- | --- | --- |
| Ask Yourself | 0 point | 1 point | 2 points |
| Did you follow the step-by-step procedure in creating a circuit? | No, I did not follow the procedures. | Well, I tried but did not get all of them right. | Yes, I followed all the procedures showed in the video and my teacher. |
| Did you use all the materials provided to finish this activity? | No, I did not use all of them. | Well, I used them and needed more of the materials because I made a mistake in following directions. | Yes, I followed my teacher and used all the materials she provided for me. |
| Did you make a complete circuit work? | No, I made a mistake and did not make a complete circuit to light the LED light. | Well, it was lighting and sometimes it does not. | Yes, I was able to light the room by creating a sample circuit. |

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CIRCUIT ACTIVITY RUBRIC**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ask Yourself** | **O Point**  https://s-media-cache-ak0.pinimg.com/236x/27/96/12/2796122e5c789549ef5d6798a009df55.jpg | **1 Point**  http://pix.iemoji.com/images/emoji/apple/8.3/256/neutral-face.png | **2 Points**  https://s-media-cache-ak0.pinimg.com/736x/4e/5c/f7/4e5cf7d4ccb9c59b6620a9c71944d51e.jpg |
| *Did you follow the step-by-step procedures in creating a circuit?* | No, I did not follow the procedures. | Well, I tried but did not get all of them right. | Yes, I followed all the procedures showed in the video and my teacher. |
| *Did you use all the materials provided for this activity?* | No, I did not use all of them. | Well I used them and needed more of the materials because I made a mistake in following directions. | Yes, I followed my teacher and used all the materials she provided for me. |
| *Did you make a complete circuit work?* | No, I made a mistake and did not make a complete circuit to light the LED light | Well, it did light but sometimes it does not. | Yes, I was able to light the room by creating a sample circuit. |