

WRITING PROMPT

4

Electric Circuits

Prompt

On Friday, you will share your flashlights with the third graders. Explain the steps involved in making a flashlight so the third grader you are sharing with will clearly understand how to make a flashlight. Remember to include the signal words: first, next, then and finally, in your explanation. Label any drawings or illustrations you include.

Word Walls

*small bulb
battery
negative
positive
switch
circuit
circuit diagram
current flow
wire
flashlight*

Writing Standards

- E2a – Report Writing
- E2b – Response to Literature
- E2c – Narrative Account
- E2d – Narrative Procedure

Science Standards

- S1 Physical Sciences Concepts
- S2 Life Sciences Concepts
- S3 Earth and Space Sciences Concepts
- S7 Scientific Communication

WRITING PROMPT

4

Electric Circuits

Prompt

Families and friends will be coming to Science Night. You want them to build a switch in a series circuit. Write the steps involved in completing this task. List materials needed. Remember to include signal words: first, next, then and finally. Draw and label the finished project.

Word Walls

*light bulb
troubleshooting
battery
wire
current
circuit diagrams
switch*

Writing Standards

- E2a – Report Writing
- E2b – Response to Literature
- E2c – Narrative Account
- E2d – Narrative Procedure

Science Standards

- S1 Physical Sciences Concepts
- S2 Life Sciences Concepts
- S3 Earth and Space Sciences Concepts
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QUICK WRITES

Electric Circuits

Lesson No.

- 1 *Tell me what you know about electricity. List any questions you have about electricity.*
- 2 *Describe one way you got the light bulb to light.*
- 3 *Using pictures on the activity sheet one, select one picture and describe clearly why it did or did not light.*
- 4 *Write five facts you've learned about Thomas Edison.*
- 5 *Draw and label the parts of a complete circuit. Explain your drawing.*
- 6 *Tell me what you've learned about troubleshooting.*
- 7 *Tell me what you've learned about conductors and insulators.*
- 8 *Tell me what you think the glass part of a light bulb does.*
- 9 *Describe the strategy you used to find the hidden circuits in the mystery box..*
- 10 *After learning about the secret language for diagramming circuits, tell why you think electricians use this method in their work.*

Quick Writes - Electric Circuits

- 11** *Predict what will happen to the light bulbs when you build circuits in a series and bulbs in parallel. After connecting the final wire, describe what actually happened and why you think this happened.*
- 12** *Tell me what you've learned about switches.*
- 13** *Today we are going to come up with a plan for making a flashlight. Describe what you think are the important parts of a flashlight.*
- 14** *Compare and contrast how electricity passes through a diode and a wire.*
- 15** *When making a plan to wire a house for electricity, what thing will you need to decide? Write at least 3.*
- 16** *Write about an interesting or amusing example of problem you had when wiring your house and explain how you solved it.*

WORD WALL

Electric Circuits

electricity	troubleshooting	bulb
light bulb	conductors	circuit diagrams
simple battery	insulators	parallel circuits
wire	semiconductors	flashlight
small bulb	filament	diode
circuit	hidden circuit	semiconductor diode
electric current	connected wires	switch
positive	crossing wires	battery
negative	current flow	electrons

Name: _____ Date: _____

Grade: _____

Writing Standard: Narrative Procedure

Assignment			
Criteria	Met	Not yet met	I noticed
<i>Engages the reader by establishing a context for the piece</i>			
<i>Identifies the topic</i>			
<i>Provides a guide to the action</i>			
<i>Shows the steps in an action in considerable detail</i>			
<i>Includes relevant information</i>			
<i>Uses language that is straightforward and clear</i>			
<i>Provides a sense of closure</i>			
<i>Writing contains few errors in grammar, spelling, mechanics</i>			