

Apr 20-1:10 PM

- What areas of the world have the greatest concentration of artificial light?
North America, Europe, & Central America have the most lights. The east coast of the United States has a lot of

- Which areas of the world have the least number of lights?
Antarctica has no lights. Northern Canada has little light. Arctic has no light. Middle of Africa has little light. Hawaii has a point on two.

- What unusual patterns of light do you see?
There is more light in the northern hemisphere than in the southern hemisphere. North America and Europe are kind of close to each other and have a lot of light. Africa and South America have more light on the coasts but Africa has the least light of the two.

Apr 21-8:02 AM

Lesson 2 How Can You Light a Lamp?

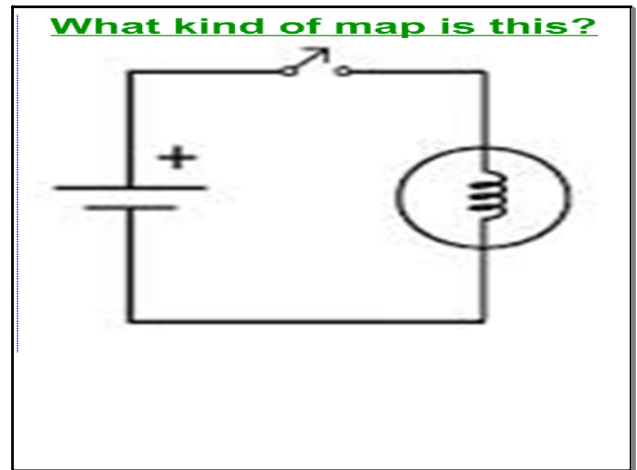
The Big Idea

- How can you light a lamp?
You light it by turning it on and giving it electricity.
- In your Lab Manual, look at the photograph at the beginning of the lesson. It is a satellite image of Earth. Which areas of the world use the most human-produced light? Why?
USA & Europe / There is more technology in those countries.
- List six activities you do that require electricity. Describe what you would do differently without electricity.
JCS

Activities that need light at night

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How does electricity get to its destination?

Apr 20-1:32 PM

Closed circuit

Open circuit

Battery

Watt

Edison

Illumination

Apr 24-8:13 AM

Read and Record	
Read to Find Out	Record Your Findings
Before the light bulb, what light source did people use to see at night?	Fire: Candles, Torch, Oil Lamp, Fireplace, Gas lamp. Natural light: Moon
What was Edison's first successful light bulb like?	Lasted over 40 hours. *PP* < two days
How did the light bulb change the way people live?	It made lives easier. You only have to turn on a switch.
What advice do you think Edison would give you as you work through the Lab Activities in this unit?	Never give up! Try again.

Apr 21-8:55 AM

Lab Activity: How Can You Light a Bulb?

How do you keep your team materials safe and ready to use throughout this unit?
Follow directions at all times. Use as a fool. Walk!!!

Lighting a Bulb

Using a wire, bulb, and battery light the bulb. Make drawings and write descriptions to show what you find out. Try more than one way. Record any failed attempts as well as at least one successful circuit. Put a star by a successful circuit. Be sure to show the points of contact between the battery, wire, and bulb to make a successful circuit.

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Apr 22-7:58 AM

Investigating Open and Closed Circuits LM 23

Complete each sentence with the correct vocabulary term. Then draw a picture to show each term.

A(n) Closed circuit is a complete pathway over which an electric current can flow continuously.

A(n) Open circuit is a broken pathway through which the flow of an electric current is stopped.

Closed Circuit

Open Circuit

Investigating a Short Circuit

What causes a short circuit?
Electricity finds an easier way to complete a circuit.

How could you make a short circuit using the wire, battery, and bulb?

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Apr 22-7:59 AM