Teacher's Notes: Light Bulb

Learning Objectives:

The students will be able to identify light bulbs and lamps from a set of 2 images.
The students will be able to define/match definitions of electricity, lab, scientist, and invention
The students will be able to match the word with the picture of a light bulb, plug socket, electricity, and lamp
The students will be able to summarize the text in one of 3 levels.
The students will discuss light bulb safety, how to plug in a lamp, and how to change a light bulb.
The students will be able to ask and answer questions about Thomas Edison.

Activities

1. Discuss and model light bulb safety and how to change light bulbs, and how to plug cords into sockets.
2. Students discuss what an electrical shock is and associate danger with electricity warning sign.

General Tips: The goal is to build background knowledge while leading an engaging discussion on any and all information that can be talked about on a given page. The items that you choose to bring up or focus on can be modified for the students you are working with. For example, if you have a student who can point to something in the picture, answer yes/no questions be sure to incorporate a lot more of that as you go through the book. On the same token, be sure to ask a lot of comprehension questions and critical thinking questions at the level appropriate for students. There is something for everyone.

Page 1: Thomas Edison was a scientist. His job was inventing things. He worked in a lab. He was from Ohio. He is not alive anymore. He lived a long time ago.
Point: Edison, lab, Ohio, your state
WH Questions: Where was Edison from? Where did he work? What was his job called?
Yes/No: Is Edison a scientist? Is Edison from Arizona? Ohio? Is he alive now? Do scientists work in labs?
Opinion/Experiences: What do scientists do? What have you learned before in science? Have you ever been to Ohio? Do you know anyone from Ohio?
Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 2: Edison is not alive now. He was born almost 200 years ago!! That is older than your great-great grandparents! His birthday was in February. It was February 11th. He was born in the year 1847. See the boy in the picture? He is dressed like people from a long time ago.
Point: boy, lantern, suspenders, calendar, the word "February"
WH Questions: When was Edison born? How long ago was that about? What is a lantern for?
Yes/No: Did Edison live a long time ago? Is he alive now? Was he born in June? May? February? On the 20th? 11th?
Opinion/Experiences: What month is your birthday? What is it like in February?
Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 3: Back when Edison was working, people had to light candles or lanterns. Lanterns have kerosene in them and a wick like a candle that burns. At night people used lanterns and candles to see. **Video how to use a lantern**: https://www.youtube.com/watch?v=S3E8Y-fE0XY
Point: candle, lantern, lantern in house, window
WH Questions: What did they use to see at night? Why?
Yes/No: Did people back then have electricity in their homes? Did they use candles? Lanterns?
Opinion/Experiences: What do you do at night if it is dark in your house? Do you have any candles? What colors?
Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 4: Back when Edison was alive people did not have electricity in their houses. There were no outlets, there was nothing you could plug in. They did not have things that have to be plugged in. They did not have lamps, refrigerators, washing machines, computers. Anything you have to plug in, they did not have. The lady in the window is holding a candle. She uses a candle to see at night. Her house does not have any plugs with electricity.
Point: plug socket, woman with candle, window, hat, dress
WH Questions: What is a outlet used for? What did they use to see at night?
Yes/No: Did people have outlets in their homes then? Could they plug things in?
Opinion/Experiences: What are some things that you have that you can plug in now? How about in your kitchen? Your living room? Your bathroom?
Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 5: Edison was a scientist. He worked in a laboratory. We call laboratories a lab. Look at the beakers. He used those for experiments. He had machines he was trying to work with in his lab. Edison was a scientist who liked to make new things. He was an inventor. He made inventions.
Point: Edison, jacket, machine, beakers, shelves, lab
WH Questions: What did Edison do in his lab? What is a lab for? Who works in labs? What is an invention?
Yes/No: Was Edison a doctor? Was Edison a musician? A scientist who made inventions? Did he work in a hospital? A lab?
Sharing Opinion/Experiences: Where do people you know work? People in your family? Famous people?
Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 6: One thing that Edison invented was a light bulb that could be used in people's homes. He wanted people to be able to have lamps. Lamps need to be plugged in, so he had to make sure people had electricity**. Video**: https://www.youtube.com/watch?v=2uYKFWjFors
Point: lamps, lamp shade, chair, light bulb

WH Questions: Why do people want lamps? What do lamps need to work?

Yes/No: Do lamps need to be plugged in? Do lamps need light bulbs? To lamps need oil and fire?

Opinion/Experiences: What rooms in your house do you have lamps? Discuss light bulb safety and/or changing a light bulb.

Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 7: Edison made power plants that could connect electricity to people's houses. The wires were on the roof of the houses. The wires had electricity in them. That is how electricity got to houses. Edison wanted people to have electricity, so they could plug things in, like a lamp.

Point: outlet, cord, electricity wires

WH Questions: What did Edison do to houses? What did he connect them with? Why?

Yes/No: Do you plug in a cord? Do lamps have a cord? Does electricity run through wires?

Opinion/Experiences: Do you know how to safely plug something in? (discuss, demonstrate safe plugging)

Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 8: When people had electricity in their houses they could plug things in, like a lamp. They did not need to use a lantern if they had a lamp with a light bulb.

Point: lamp, window, lamp shade

WH Questions: Why could people use lamps now? What do lamps need?

Yes/No: Do lamps need a light bulb? Electricity?

Opinion/Experiences: Why did people not need candles anymore? Lanterns?

Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.

Page 9: Thomas Edison is very famous. Having electricity in people's homes and being able to use light bulbs in lamps made it better for everyone.

Point: light bulb, Edison, hat, jacket, vest

WH Questions: Who invented the light bulb for lamps? Who got electricity connected to houses? What is this man's name?

Yes/No: Is this man an inventor? Is he a scientist? Did he invent the light bulb?

Opinion/Experiences: Who else is famous for inventing things?

Peer to Peer Interaction: After you read the page, have students take their main idea card for this page and ask each other questions.