

CurriculumVisions Lesson

Students: fill in next to the word answer and return the document for assessment.

Science

Book: Simple Electricity (4F)

Pages 4-9

Everything here is based on our Curriculum Visions book Simple Electricity (4F).

Part 1

In this segment, we are going to think about some different things that use electricity.

You will need to go to pages 4-5 of the book.

What are two sources of electricity?

Answers.....

Batteries and mains electricity

Which source is used by portable things? Which source comes from a power station?

Answers.....

Batteries

Mains electricity

Go to pages 6-7. Does friction depend on the amount of area that is in contact? Does it depend on how much weight is pressing down on a surface? How could you prove your answers to these questions?

Answer.....

No; yes

Answer to the last question will vary. Look for an experiment

that involves using a forcemeter to measure the force used to move a large block, a small block, a heavy block and a lighter block.

Go to pages 8-9. Make two columns on a sheet of paper. Label one Battery power and label the other Mains. Look around your home or school and list all of the things you find that use these sources of electricity.

Answers will vary.....

Go to pages 10-11. With your teachers' permission, and a partner, use a battery and some aluminium foil to make a bulb light up. How could you do this without a partner.

Answers will vary.....

Direct students to the picture on page 9. Suggest that they roll or fold the aluminium foil to make wires. If they are having difficulty lighting the bulb, make sure that they are holding the wires tightly to the connections. To make the connections without a partner, they might suggest using tape.

If you are interested in this topic, continue to browse the book and watch our amazing videos. They start right on the book cover.