

Name: _____

Electricity 101: Powering Our World

Part 1

Directions:

Fill in the blanks as your teacher goes through the PowerPoint.

Term	Definition	Example	What Would Happen If It Were Missing?

Choose two of the vocabulary words from above and define each by drawing a picture.

Vocabulary Word:

Picture:

Vocabulary Word:

Picture:

Name: _____

Part 2

Directions:

Now it's time to apply what you learned through your notes. Work in a small group. Use the category headers — Source, Path and Load — to sort each object card into the correct category. Once you have completed your sort, have your teacher check your answers and then record the answers in the chart below. Use the following questions to guide your sorting.

- Does this item provide electricity? → Source
- Does it carry electricity? → Path
- Does it use electricity to do something? → Load

Item	Category (Source/Path/Load)	Why Did You Choose This Category?

1. In your own words, explain what source, path and load are and their relationships to each other.

Name: _____

Part 3

Directions:

Walk around the classroom. Look for items that use electricity. For each item, decide if it is a source, path or load. Then explain what it does and if it needs electricity. When done, answer the conclusion questions below.

Item	Source/Path/Load	What Does It Do?	Needs Electricity? (Yes/No)

Reflection Questions

1. What is one new thing you learned about how electricity works?
2. If something in your house stops working, how could knowing about Source, Path and Load help you figure out what is wrong?
3. What would happen if one part of the electrical system (source, path or load) was missing?
4. If you had to live one day without electricity, what would you miss the most? Why?