

Electricity Project!

Science 9
MacDonald



DC



- DC means Direct Current
- This is used in things like batteries or generators

AC



- AC means Alternating Current
- This type of power comes from the electrical outlets in the wall, also known as sockets

Task 1

- Create this table in your notebook
- Identify all the devices in your home or class that use electricity
- For each, identify whether it is AC or DC

Electrical Device	How many?	AC or DC?
Clocks	4	3 DC, 1 AC
...



Task 1 -- Questions

- 1. How many electric devices do you have in your home or classroom?
- 2. Which devices do you use the most often? ...least often?
- 3. Which Devices do you think use the most electricity?

Task 2

- Create the following table in your notebook. Indicate the kinds of electrical energy that your devices from task one make.

Device	Light	Sound	Heat	Mechanical	Other
Light bulb	X		X		

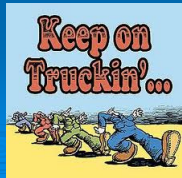
Task 2

- Think about all of the devices from your table.
- What is the most common energy transformation from electrical energy?

Task 3

- Do any of your devices send or receive information?
- Use the following chart to identify the devices from Task 1 that send /and or receive

Name of Device	Does it send, receive, or both?
Telephone	Send and receive
...	...



Task 3 – Questions

- How many devices do you have that send or receive signals?
- Design a method to record how much time you spend each day using each of the devices.

Task 3 -- Questions

- Choose three of your devices and track how long you use them each day at school?
- Why is electricity important?
 - Write me your best ideas explaining why it is important in YOUR life

Task 4

- Write a short story to describe your morning routine. Include all of the electrical devices you use or see as you get ready for school.
- Your story can be funny or serious, but make it truthful.

Task 5 – Extra (optional)

- The following people made important contributions to our understanding and use of electricity

Benjamin Franklin
Luigi Galvani
Alessandro Volta
Michael Faraday

James Watt
Thomas Edison
Alexander Graham Bell

Task 5 – (optional)

- Choose one of those people and research what he invented or discovered.
- Also include:
 - When / where did he live?
 - When did he make his important contribution?
 - What impact does that invention or discovery have on our lives today?