



Academic Activity **From Research Science to Electrical Engineering**

Chapter 8

Materials

- 8 note cards (any size)
- 160 centimeters of string
- Tape
- Scissors or hole-punch

It took the research of many people to define the properties of electricity and create methods of harnessing, creating, and using electricity.

Create a card that looks like this sample for each researcher or inventor on the list below. Include a punched hole or cut a small hole (4-5 mm) halfway down the left and right margin of the card.

Name _____
Profession _____
Date born _____
Date of major accomplishment _____
Date died _____
Define contribution to the understanding of electricity or invention(s) in detail. _____

Researchers/Inventors: Michael Faraday, Nikola Tesla, Andre-Marie Ampere, James Clerk Maxwell, Alessandro Volta, Georg Simon Ohm, Thomas Alva Edison, and Jack Kilby.

Look up each researcher or inventor on the Internet. Complete a card for each.

When your cards are complete, create a timeline (earliest to latest) using the dates they published or invented their contributions to electrical engineering. The 160-centimeter-long string represents the 160 years from the first invention to the last. Using the scale of 1 centimeter per year, thread the cards onto the string in the right order and tape them in place. A few will be almost on top of each other so just place them next to each other in order.