

WARM UP



In your notebook...

- Why do you think so many power plants need to get something spinning in order to transfer electrical energy to the wires?

Warm Up 10/1

Warm Up: Open up your Electron Models from Monday on Google Classroom

Agenda

- Models of Electrons Review
- Wire Simulation (Page 1 and choose variable to test)

Wire Coil Lab is past due! Turn this is ASAP.
Wednesday- Generator Modeling

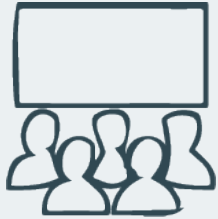
Warm Up 10/2

Warm Up: Open up your Models of Electrons on Google Classroom. In your notebook, model both Model A and Model B.

Agenda

- Models of Electrons Review
- Wire Simulation Finish

Read Closely for Unfamiliar Words



With your group...

- Take turns reading aloud about magnetic fields and electric fields, **page 1 only**.
- Follow along, and write down unfamiliar or very important words as you listen on your white board.

Read Closely for Evidence



With your group...

- Read page 1 again. Jot down evidence that connects to things we've seen in class.

Answer these questions on your white board...

1. What happens when a magnetic field changes?
2. How does this affect charged particles in a wire?

If you have time, read page 2 and keep jotting down evidence to connections we've seen in class.

To Do



To Do

- Finish and Turn In your Wire Coil Mini Lab
- Read Page 2 of “Changing Fields”
- Read the “Models of Electrons” on Google Classroom and answer the questions in your notebook (due tomorrow start of class)

Warm Up

Take out your Chromebook and Notebook

- Open up Models of Electrons Reading
- Answer Questions 1 and 2 in your notebook

Agenda

- Pass back labs
- Simulation

Wednesday- Grade Check In and Motor Challenge

Exit Ticket



On your own

Do we have all the pieces we need to model how insufficient supply could have affected energy transfer into certain communities in Texas when temperatures dropped during the storm?

Optional Extension: Algebraic Models

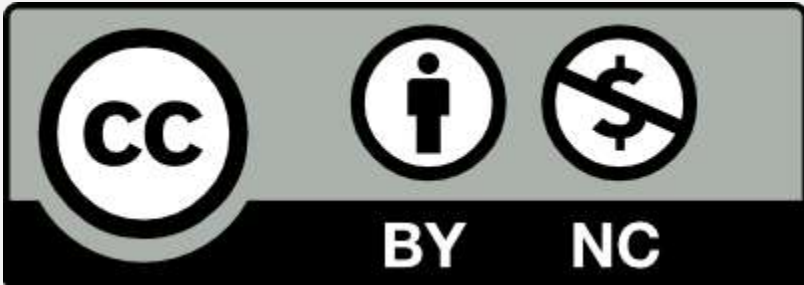


With a partner

Engineers create mathematical models to describe systems by looking for patterns and trying out ideas.

In this activity, challenge yourself to try out this approach with the wire simulation by working through the questions in the handout.

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