

**LPHS Physics Outreach Learning**  
**May 18-22, 2020**

**PHYS: 11<sup>th</sup> & 12<sup>th</sup>    Week of: May 18-22, 2020**

Teacher/Team:  
If there are any  
questions, please  
feel free to email  
me/us at:  
(Email Address of  
the Teacher)

[dillardm@lpsd.org](mailto:dillardm@lpsd.org)

[Period 3](#)

[Period 4](#)

Link to [TEAMS](#)  
[Folder](#)

Previous Lessons:

Hewitt Drew It: Electromagnetic Induction

[https://www.youtube.com/watch?v=iMMKT\\_9rcpM&list=PL6Pw5RXSrjGNN6Kp1fq7X\\_rgoGu6qKM8j&index=102](https://www.youtube.com/watch?v=iMMKT_9rcpM&list=PL6Pw5RXSrjGNN6Kp1fq7X_rgoGu6qKM8j&index=102)

Link to:  
(Resources).

Electromagnetic Induction

[https://www.youtube.com/watch?v=jeTmla00\\_rc&t=241s](https://www.youtube.com/watch?v=jeTmla00_rc&t=241s)

PhET Simulation: Generators, Faradays Law, Magnetic Fields

<http://phet.colorado.edu/en/simulation/generator>

## Objectives

Objective / I Can:

- identify and calculate examples of electric and magnetic forces in everyday life.
- investigate and describe the relationship between electric and magnetic fields in applications such as generators, motors, and transformers.

## Activities

Student Activities: (Resources, videos for students to use.)

Go to [Teams Folder](#). Look for the assignments:

1. Take notes while watching the Electromagnetic Induction videos linked
2. Read through the highlighted notes on Magnetism: Magnetic Flux and Induced Voltage, paying close attention to the identified formulas. Review the solved example problems.
3. Complete the Magnetic Flux and Induced Voltage practice problems.
4. Complete the PhET Simulation: Generators, Faradays Law, Magnetic Fields simulation and worksheet.

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**Academic/Instructional Support**

Schedule:	Teacher Support - TEAMS Support for each student will be available through TEAMS
Office Hours	Office hours: 8am -12pm M-F, <a href="mailto:dillardm@lpisd.org">dillardm@lpisd.org</a>

**To Be Graded**

Assignment for students to submit to TEAMS Folder:

1. Magnetic Flux and Induced Voltage practice problems
2. PhET Simulation: Generators, Faradays Law, Magnetic Fields simulation and worksheet.

*Each assignment will be counted as a daily grade worth 100 points*

When is it due? All assignments due: May 25, 2020 by 8am.

What assignments will the student submit?

1. Magnetic Flux and Induced Voltage practice problems
2. PhET Simulation: Generators, Faradays Law, Magnetic Fields simulation and worksheet.

How will it be submitted?

Electronically, except by individual arrangement.