

June 16, 2020

MagLab Summer Exploration Series
Week 3 Links

Hey everyone! These are the MagLab links to help you understand electromagnetism.

The discovery that started it all, here's [How Oersted Discovered Electromagnetism](#), and a chance for you to play online with [Oersted's Compass](#). Here are a couple of deeper explanations of a [Magnetic Field Around a Wire](#), and [Magnetic Field Around a Wire II](#),

Electromagnetism is the force that allows the MagLab to build some of the strongest magnets in the world. Let's take a moment to get a [Magnet Primer](#), and then take a virtual tour of the [World's Strongest Continuous Field Magnet](#).

The discovery of electromagnetism led to a number of inventions. Take a look at [How the Electromotive Forces Work](#), and the physics principles that help us remember the forces, the [Right Hand and Left Hand Rules](#).

Discovering these forces was important in the invention of the electric motor, among many others. Take a look at [How DC Motors Work](#).

While we use these motors every day, we can also talk about a machine that uses these forces but is less of an everyday machine, the [MagLab's Quarter Shrinking Machine](#).

Finally, MagLab user and researcher Thomas Szkopek talks about cool two-dimensional materials and what he learns about them in high magnetic fields. in this [Take 2 video](#).

For some advanced fun, learn about [Giant Magnetoresistance](#), an interesting little phenomenon that makes your iPods and computer hard drive possible.

Any questions? Email [Carlos R. Villa](#).