

Students will identify and describe

Directions:
- Drag the labels below into the appropriate places

Magnet	An object that attracts iron and other materials that have an iron core
	The relationship between electricity and magnetism
	A push or a pull that occurs when a magnet is
	A metal core magnet
Magnetic Force	The area of
	A coil
	The two where the
Solenoid	Electromagnet
Magnetic Pole	

Vocabulary

Magnetic Force

Field

electromagnet

Wrap Up

Directions:
- Drag the pictures on the left onto the black squares to create an electromagnet
- Place the correct number of paperclips under the nail that would be able to hold them

Use the objects on the left to create your own electromagnet that is on by placing them in the boxes on the right

Match the amount of paperclips on the left with the electromagnet that can hold their amount by placing the paperclips under the appropriate nail.

Vocabulary

Magnetic Force

Field

electromagnet

Wrap Up

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Students will analyze and explain


[illegible]


Directions:


- Drag the magnets on the left onto the correct magnetic field that shows their interaction


Place the magnets on the left onto the magnetic fields on the right that demonstrate their interaction


Magnets to be placed:












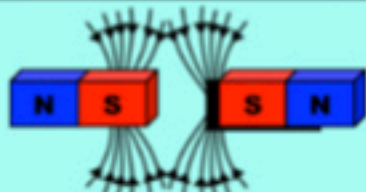
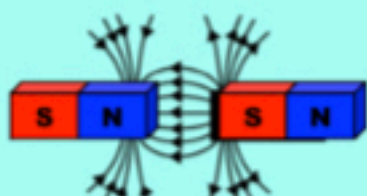
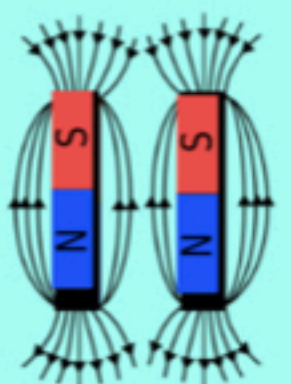
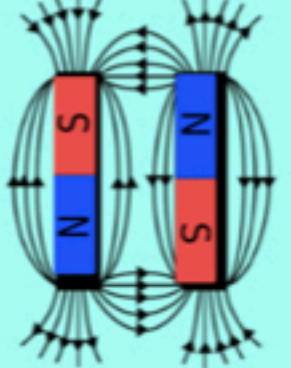








Magnetic Fields to interact with:

Vocabulary

Magnetic force

Magnetic Field

electromagnet

Wrap Up

Teacher directions and answer key provided

Directions:

- Drag the labels on the left into the part of the hand to show the location and direction of the magnetic field and current
- Explain the different ways to increase the strength of an electromagnet.

Based on the right hand rule, use the labels on the side to correctly identify the location and direction of the current and the magnetic field

Explain at least two different ways to increase the strength of an electromagnet.

There are different ways to increase the strength of an electromagnet. One way is to increase the number of coils around the iron core. Another way is to increase the amount of current flowing through the coils, which can be done by using a stronger battery or cranking a hand crank.

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Directions:

- Drag the labels below into the appropriate places

Magnet	An object that attracts iron and other materials that have an iron core
Electromagnetism	The relationship between electricity and magnetism
Magnetic Force	A push or a pull that occurs when a magnet interacts with another object
Electromagnet	A metal core that is turned into a magnet when electric current passes through the coil surrounding it
Magnetic Field	The area of force that surrounds the magnet.
Solenoid	A coil of wire with a current running through it
Magnetic Pole	The two places on the magnet where the force is the strongest

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Teachers: click on the titles in the red box to download the digital notebook to their google drive

Teachers Guide

What You Will Need To Get Started:

1. Download link for the Google Resource

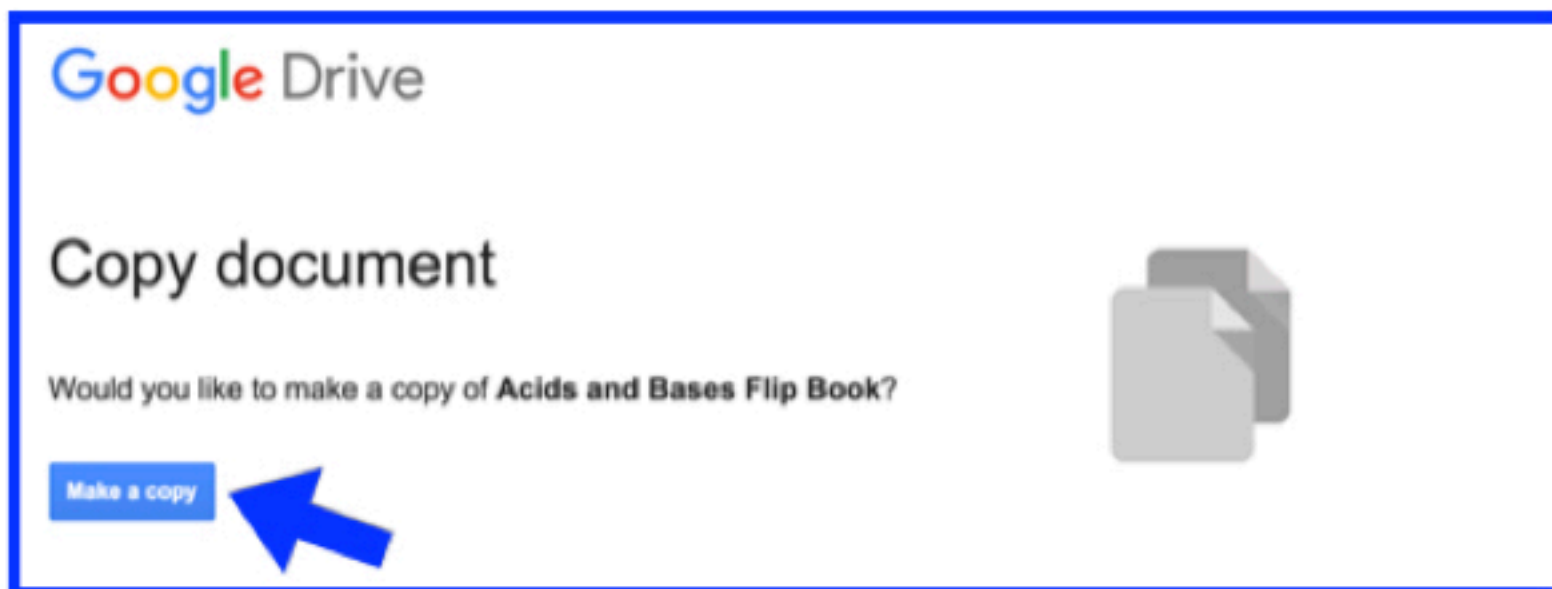
Cell Cycle Digital Interactive Notebook Student

Cell Cycle Digital Interactive Notebook Teacher

2. Access to the Internet and a Google Account (Free)

3. Google accounts or Microsoft OneDrive accounts for your students to save their work

4. Open the file on your Google Drive. The link will prompt you to make a copy



5. This new copy is now yours to edit and share with your students

6. Printer access if you choose to print the finished product as an actual flip book

Teacher directions on how to share with students in google classroom, microsoft one drive, or any other LMS

How to use this resource with your student:

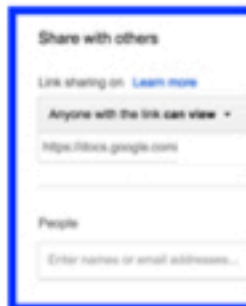
Google Directions:

1. After you have made your own copy of the resource from the link, you will want to make a copy for your student.

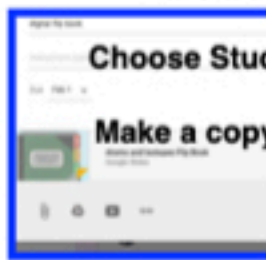
-Some options for this

- A. Give the students the link to your resource and make it "view only" this will allow students to make their own copies without affecting the original. To do this go to the blue SHARE button in the top right corner >get shareable link> choose people with a link can view > copy the link

- **Remember**, when sharing a link on an open class



- B. Use google resource to make a copy



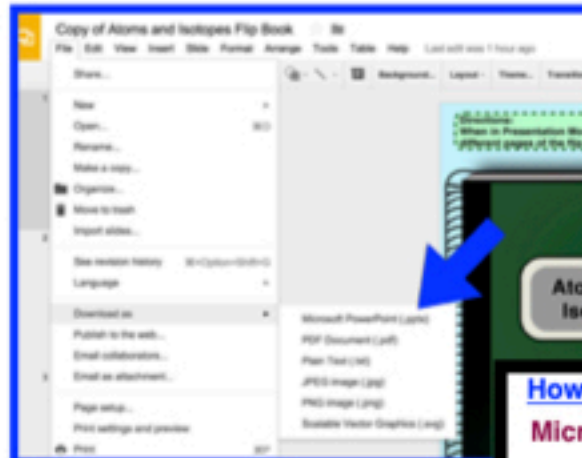
2. Students will be able to make a copy automatically saved.

3. Students may share

How to use this resource with your student:

Microsoft OneDrive Directions:

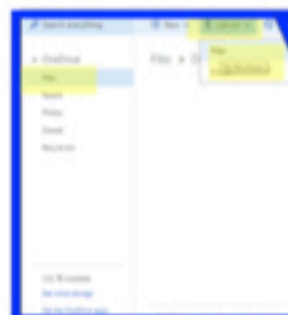
1. After you have made your own copy of the resource from the link, you will need to download your copy as a ppt to your desktop. To do this from the menu to FILE > Download as > Microsoft PowerPoint (.pptx)



2. Open your OneDrive. Create a folder for this resource. This step is recommended to keep you and your students organized.



3. From the menu, select Upload > Files from your computer or select the file and upload it.



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How to use this resource with your student:

Microsoft OneDrive Directions:

4. Make sure that you open the resource to make sure it is in good working order before sharing it with your students.

5. You will want to interact with the digital flip book in the "edit mode". This allows you to add their own text and move the pieces.

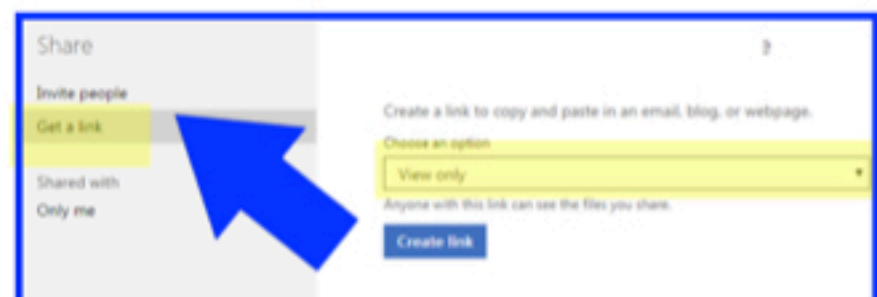
6. You will be prompted to choose to edit the file in PowerPoint or online. Select online. It will then open in a browser.

7. Follow your normal steps in sharing the file with your students. Go to Share > Share with people



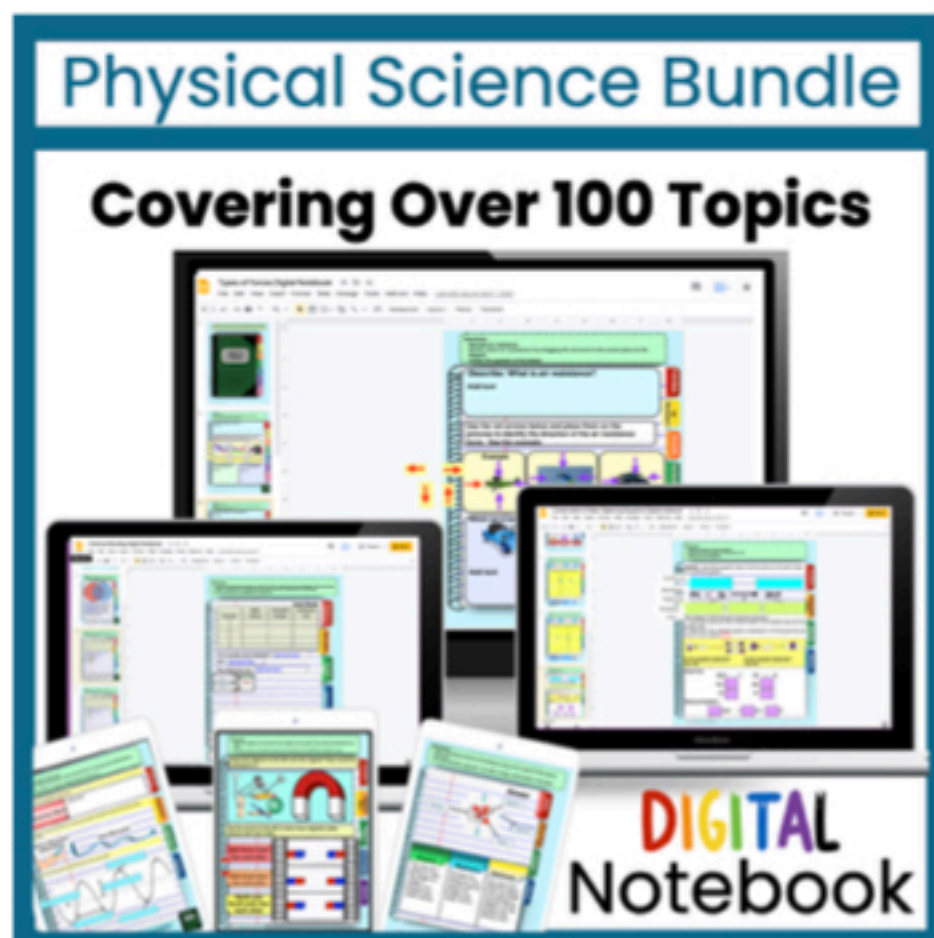
8. Choose the option to view only. Then require your students to make a copy in their own drive before editing the file. This ensures your students do not edit your file.

- **Remember**, when sharing your link with your students make sure it is a secure format that requires a log in password and not on a personal, school, or district site that can be accessed by anyone

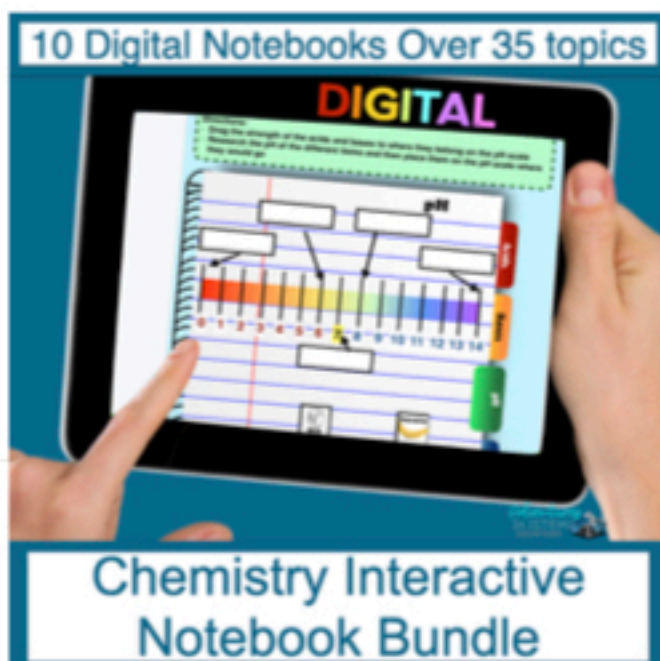




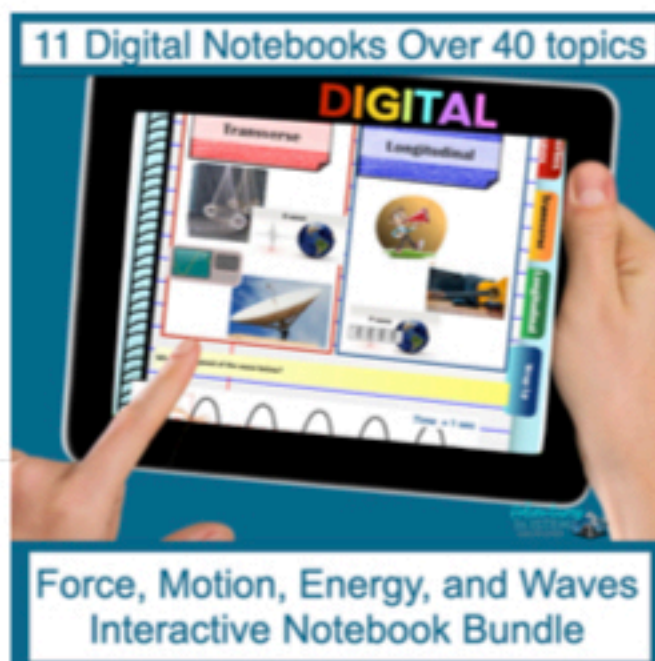
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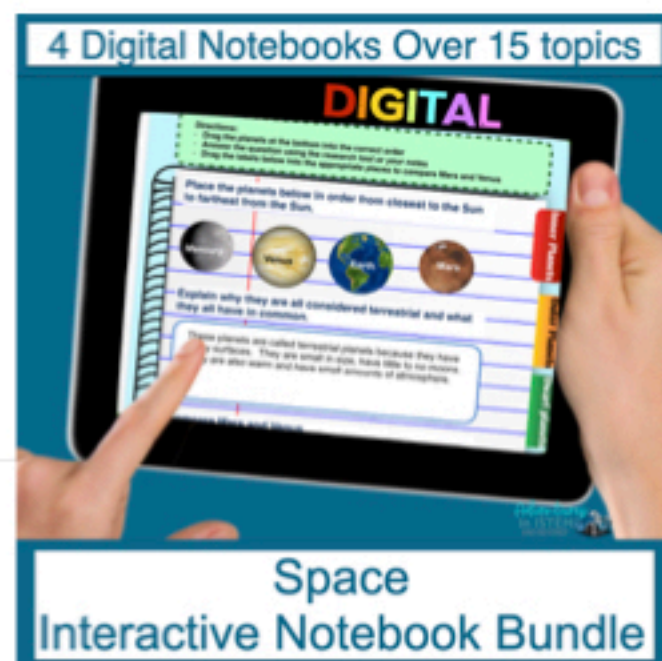
Years worth of digital notebooks covering over 100 physical science topics.



10 digital notebooks covering over 35 chemistry topics.



11 digital notebooks covering over 35 physics topics.



4 digital notebooks covering over 35 space topics.



Teaching STEM Through Inquiry

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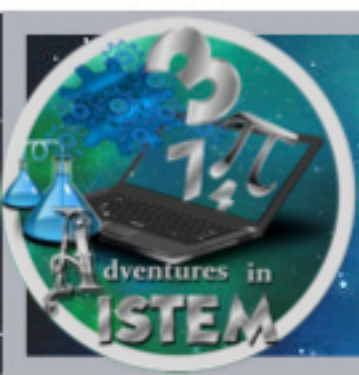
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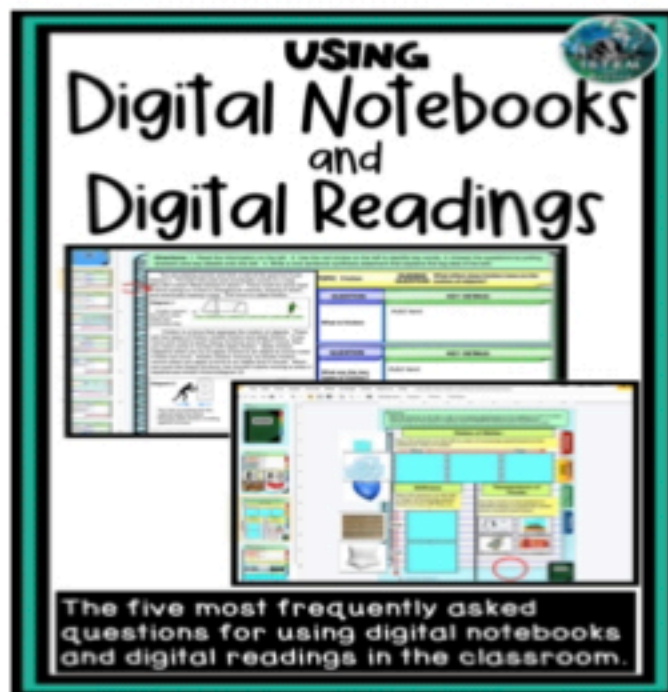




Digital Resources

Using Digital Products?

If you are new to using digital lessons than I recommend to check out my blog post that contains the most frequently asked questions. Click the picture for the link.



I would also recommend checking out my Google Slide videos that demonstrate how to drag and drop pieces, write in the text boxes, add objects, and more. These are short videos that can easily be shared with students and parents. Click the picture for the link

