

Students will identify and describe

Directions:

- Put a circle over the pictures that represent conduction
- Drag a drop the correct words that complete the sentence
- Put a circle over the correct areas that conduction can occur

Identify which picture or pictures represent conduction by placing a circle over them



Conduction

Convection

Radiation

Insulation

Wrap up

g from one part to another.

colliding with each other.

ves transferring the energy

Drag and drop the words on the left to best complete the sentence and explain what conduction is

Conduction is the transfer of thermal energy...

Where can conduction take place? Circle the words that show where conduction can occur.

Solid

Liquid

Gas

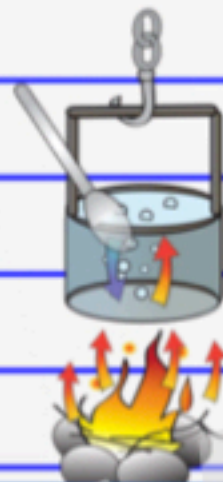
Space

Students analyze and explain

Directions:

- Fill in the blank spaces by dragging the words on the left to make it a true statement.
- Use the diagram to answer the questions

Thermal energy always flows from **HOT** to **COLD**



You are cooking soup while camping and accidentally left the metal spoon in the soup. When you go to mix the soup your hand gets burned from the spoon. Use your knowledge of radiation, convection, and conduction to explain why the metal spoon became too hot to touch when you went to use it.

The fire heats up the soup pan through radiation. The soup pan then heats up the soup inside through conduction. The soup continues to get hot through convection which allows the cold soup at the top to transfer to the bottom and the hot soup at the bottom to move to the top. The soup heats up the spoon through conduction. The heat from the spoon quickly transfers to your hand since it is a good conductor which then burns your hand.

Explain why would it be better to use a wooden spoon in place of the metal spoon?

A wooden spoon is a poor conductor compared to a metal spoon so the heat of the wooden spoon would not transfer as quickly to your hand, preventing you from getting a burn.

Teacher directions and answer key provided

Directions:

- Put a circle over the pictures that represent convection
- Drag a drop the correct words that complete the sentence
- Put a circle over the correct areas that convection can occur

Identify which picture or pictures represent convection by placing a circle over them



Conduction

Convection

Radiation

Drag and drop the words on the left to best complete the sentence and explain what convection is

Convection is the transfer of thermal energy...

by particles in a fluid moving from one part to another.

Where can convection take place? Circle the words that show where convection can occur.

Solid

Liquid

Gas

Space

Conduction /
Insulation

Wrap up

each other.

the energy

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

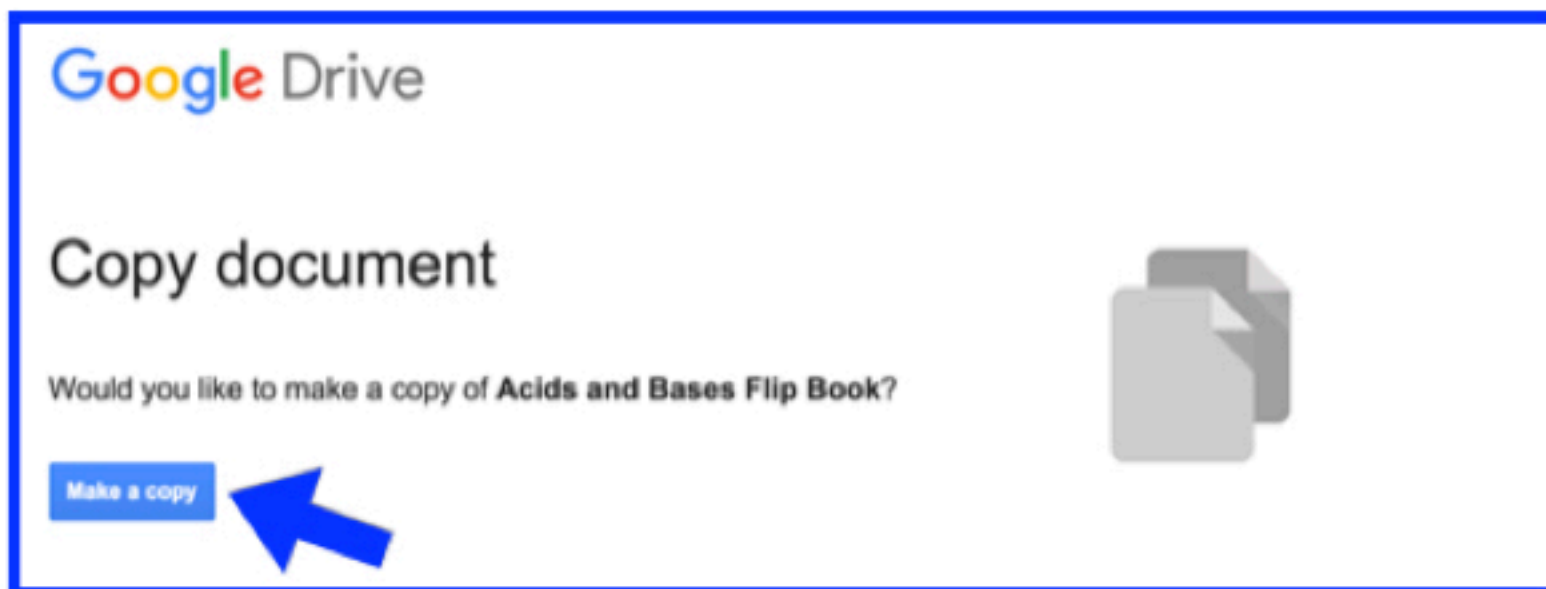
Cell Cycle Digital Interactive Notebook Student

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:

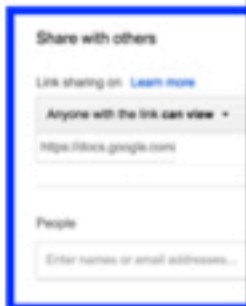
Google Directions:

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

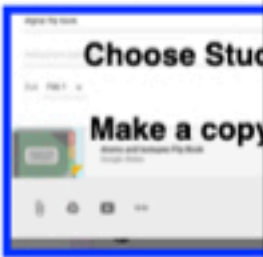
-Some options for this

- 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 you share a link on an open class



B. Use google resource to make a copy



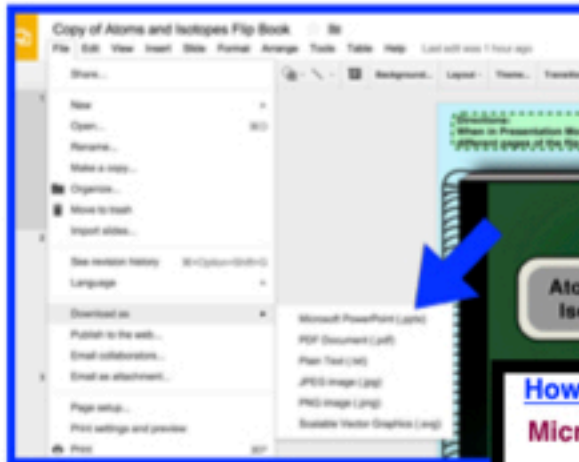
2. Students will be able to automatically saved.

3. Students may share

How to use this resource with your student:

Microsoft OneDrive Directions:

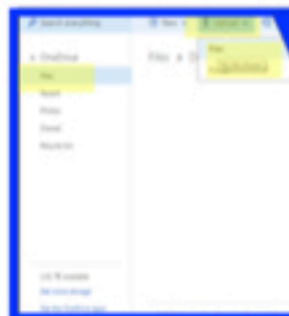
1. After you have made your own copy of the resource from the link, you will need to download your copy as a ppt to your desktop. To do this from the menu to FILE > Download as > Microsoft PowerPoint (.pptx)



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



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



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How to use this resource with your student:

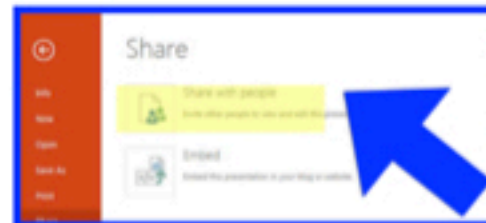
Microsoft OneDrive Directions:

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.

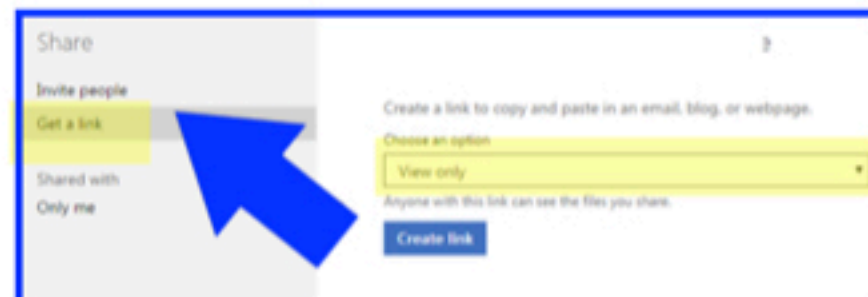
6. You will be prompted to choose to edit the file in PowerPoint or online. Select online. It will then open in a browser.

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 that can be accessed by anyone





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Teaching STEM Through Inquiry

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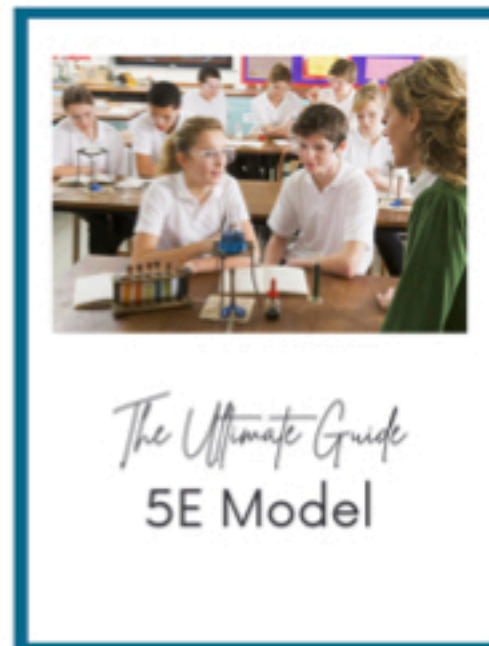
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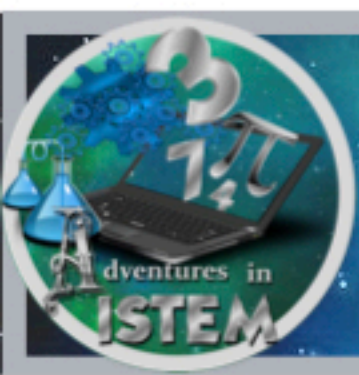
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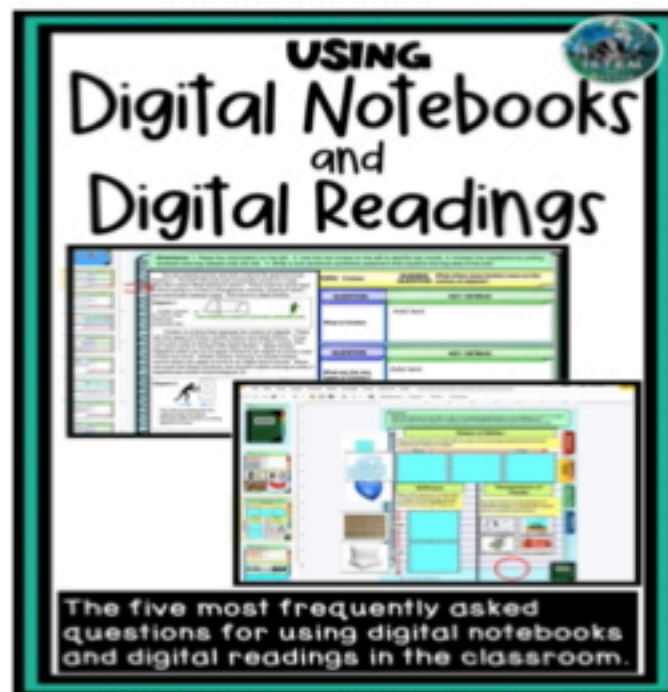




Digital Resources

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

