Students identify and label objects
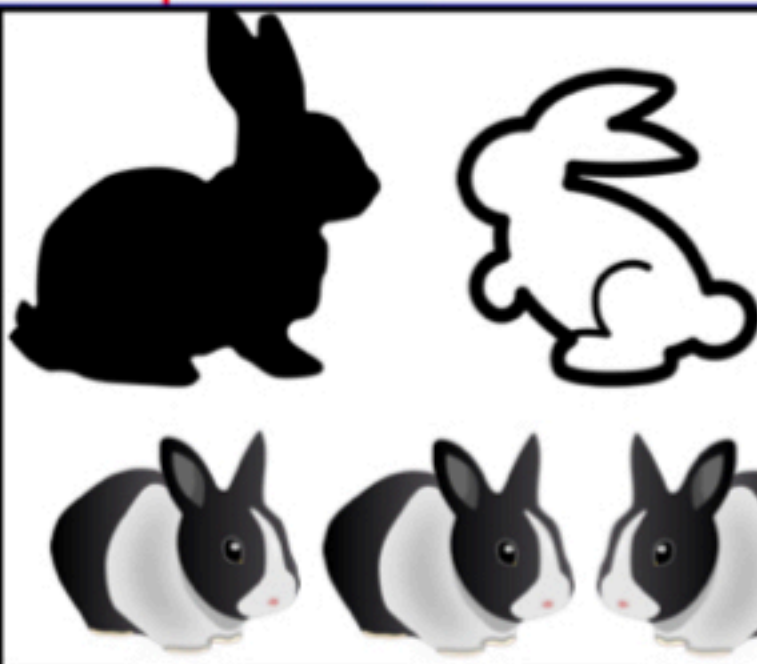

a dominant and recessive cross
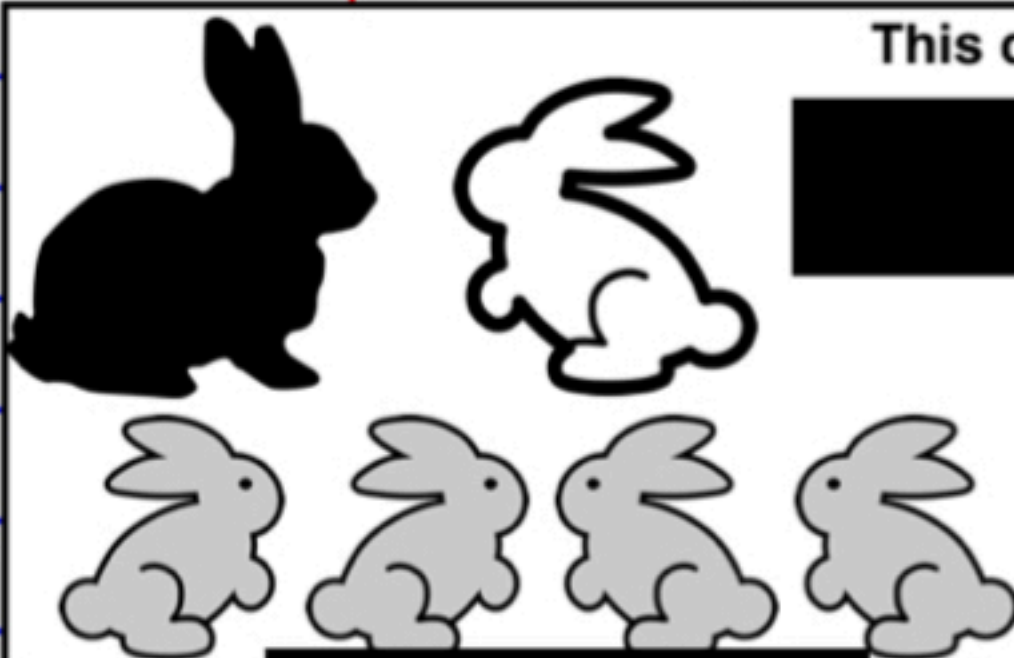
This cross shows

This cross shows

an incomplete dominance cross

a codominance cross

Vocabulary

Types of Crosses

Sorting

Punnett Squares (A)

Punnett Squares (B)

Acids and Bases

Students compare and sort

Phenotypes		Genotypes	

Phenotypes | Genotypes

rr

MM

Qq

Gg

Vocabulary

Types of Crosses

Sorting

Punnett Squares (A)

Punnett Squares (B)

Place an X in the boxes that represent a heterozygous combination.

~~Hh~~	QQ	RR	~~Kk~~
~~Ll~~	mm	nn	~~Oo~~
PP	~~Gg~~	~~Dd~~	bb

Acids and Bases

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Students apply their knowledge of punnett squares and heredity

flowers with white (F^WF^W) flowers.
What will happen if you mix a red flower and a white flower?

F^R

F^W

F^RF^R

F^RF^W

F^WF^W

What percent will be F^RF^R? Add text

What percent will be F^WF^W? Add text

What percent will be F^RF^W? Add text

What percent will be red? Add text

What percent will be white? Add text

What percent will be pink? Add text

Vocabulary

Types of Crosses

Sorting

Punnett Squares (A)

Punnett Squares (B)

Students match the words to the definitions for vocabulary practice

Word	Definition
Heredity	The passing of traits from parents to offspring.
Dominant Trait	The trait that always shows up when present.
Recessive Trait	The trait that is hidden or masked and only sometimes appears.
genes	The part of the DNA that gives directions for what the organism will look like.
alleles	A form of the gene that determines the characteristic.
phenotype	The physical appearance of an organism.
genotype	The combination of genes that code for a trait.
Meiosis	A process that decreases the number of chromosomes to half of the original.
incomplete dominance	A heterozygous combination that results in neither allele dominating so the traits are blended.
Codominance	A heterozygous combination that results in both alleles dominating giving a spotted look.
Homozygous	A pair of alleles that are the same, both capital or both lower case.
Heterozygous	A pair of alleles that are different.

Vocabulary

Types of Crosses

Sorting

Punnett Squares (A)

Punnett Squares (B)

Acids and Bases

Teacher directions and answer key provided

	R	r	
r			rr
R			
	r	Rr	rr
	r	Rr	rr
			RR
			Rr

What percent will be homozygous dominant? 0%

What percent will be heterozygous? 50%

What percent will be homozygous recessive? 50%

What percent will be red? 50%

What percent will be white? 50%

Acids and Bases

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

Teachers Guide

What You Will Need To Get Started:

1. Download link for the Google Resource
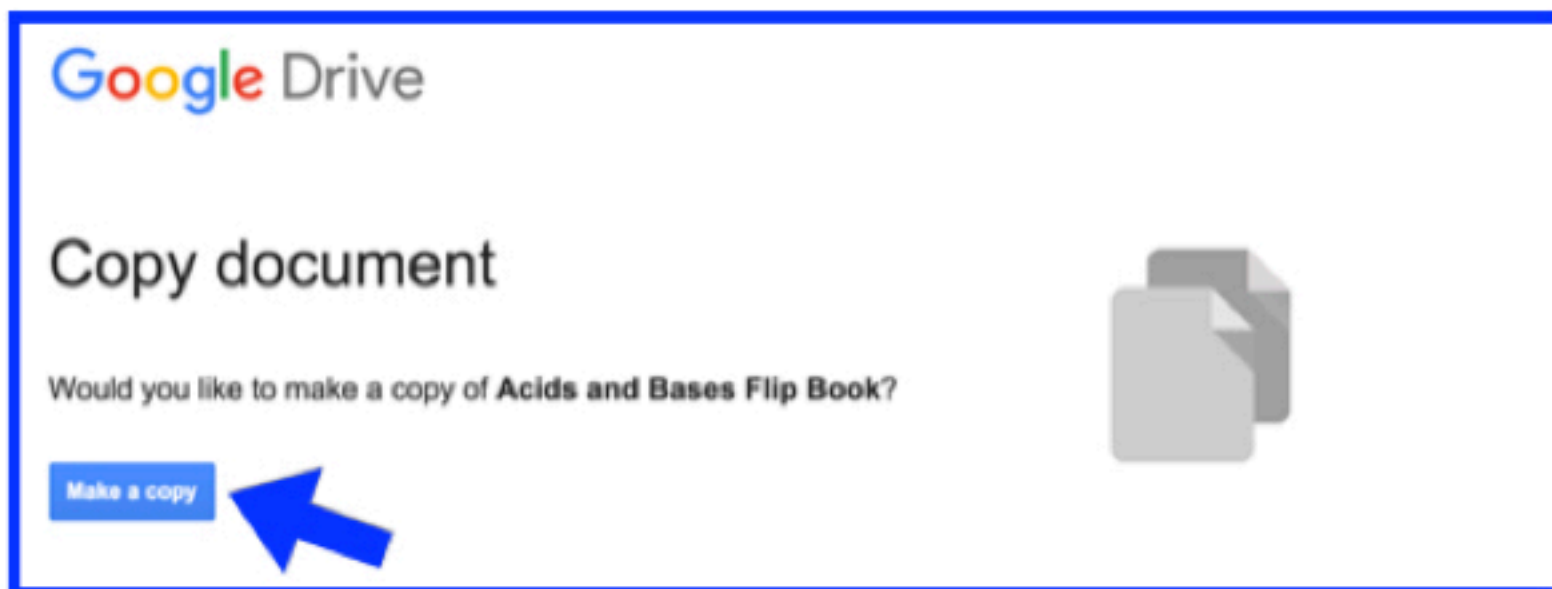
<div style="border: 2px solid red;">

Cell Cycle Digital Interactive Notebook Student

Cell Cycle Digital Interactive Notebook Teacher

</div>

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

Google Drive

Copy document

Would you like to make a copy of **Acids and Bases Flip Book**?

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

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

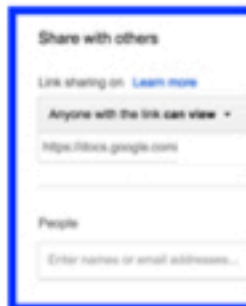## How to use this resource with your student:
Google Directions:
1. After you have made your own copy of the resource from the link, you will want to make a copy for your student.
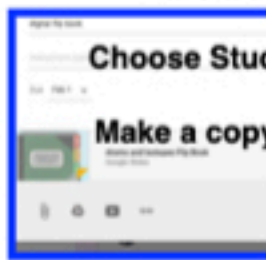   -Some options for this
      A. Give the students the link to your resource and make it "view only" this will allow students to make their own copies without affecting the original. To do this go to the blue SHARE button in the top right corner >get shareable link> choose people with a link can view > copy the link
   - **Remember**, when ~~secure site that re~~ ~~link on an open cla~~

      B. Use goog~~resource~~~~make a c~~
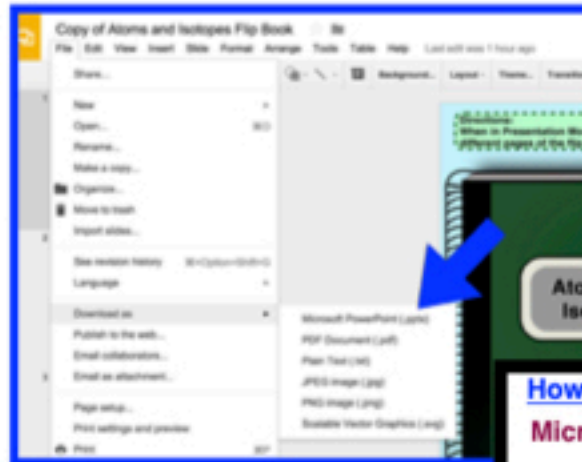
Choose Stud

Make a copy

2. Students will be able~~automatically saved.~~

3. Students may share

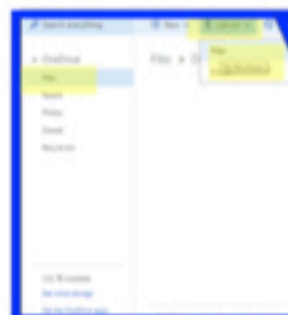## How to use this resource with your student:
Microsoft OneDrive Directions:
1. After you have made your own copy of the resource from the link, you will need to download your copy as a ppt to your desktop. To do this from the menu to FILE > Download as > Microsoft PowerPoint (.pptx)

2. Open your OneDrive. Create a folder fo~~step is recommended to keep you and you~~

Folder

3. From the menu, select Upload > Files.~~your computer or select the file and uplo~~

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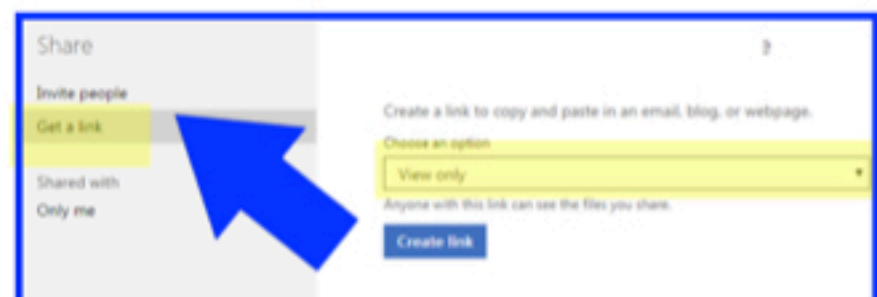
6. You will be prompted to choose to edit the file in PowerPoint or online. Select online. It will then open in a browser.

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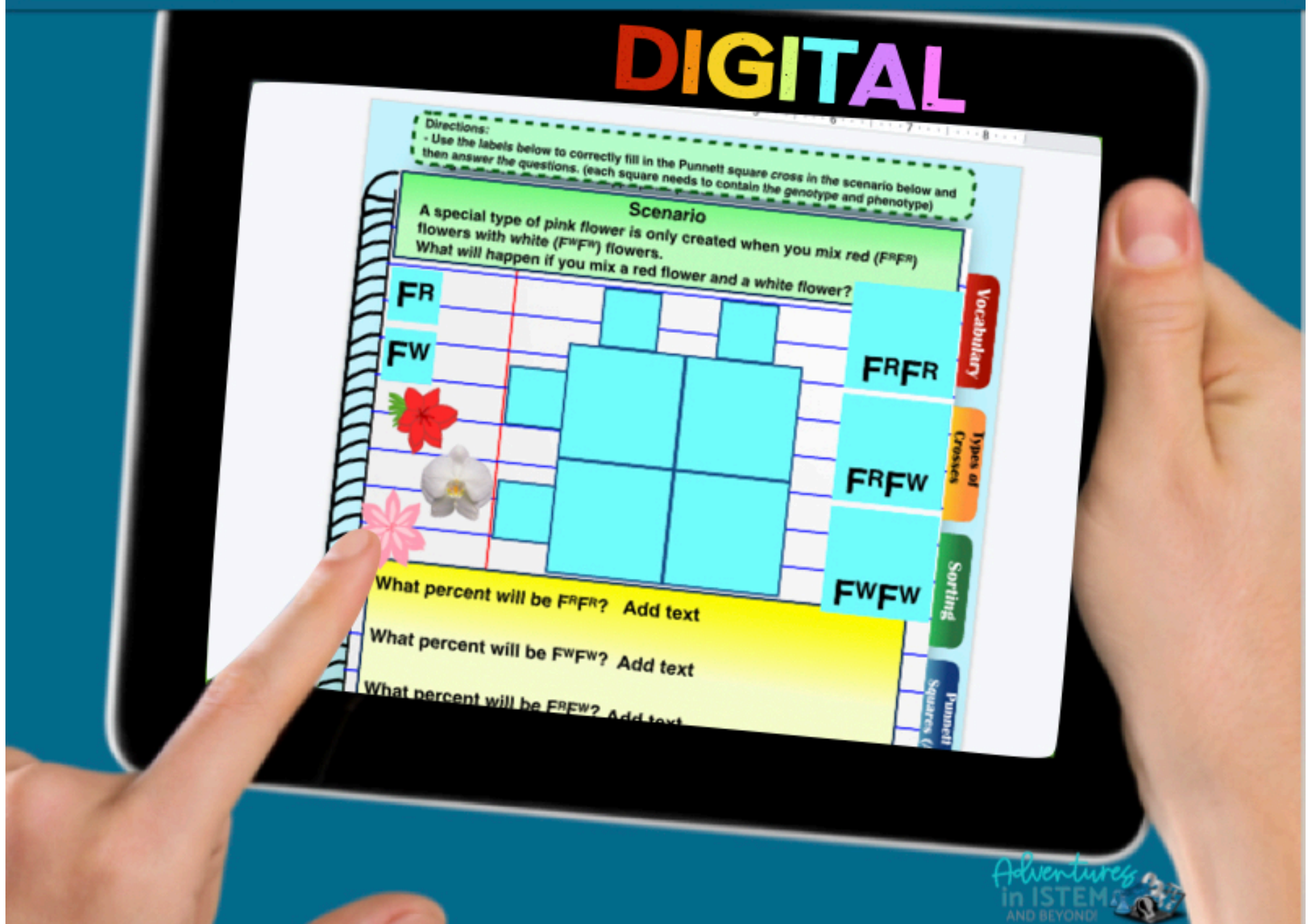
Share

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 formate that requires a log in password and not on a personal, school, or district that can be accessed by anyone

Share

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DIGITAL

Directions:
- Use the labels below to correctly fill in the Punnett square cross in the scenario below and then answer the questions. (each square needs to contain the genotype and phenotype)

Scenario
A special type of pink flower is only created when you mix red ($F^R F^R$) flowers with white ($F^W F^W$) flowers. What will happen if you mix a red flower and a white flower?

F^R
F^W

$F^R F^R$

$F^R F^W$

$F^W F^W$

Vocabulary
Types of Crosses
Sorting
Punnett Squares

What percent will be $F^R F^R$? Add text

What percent will be $F^W F^W$? Add text

What percent will be $F^R F^W$? Add text

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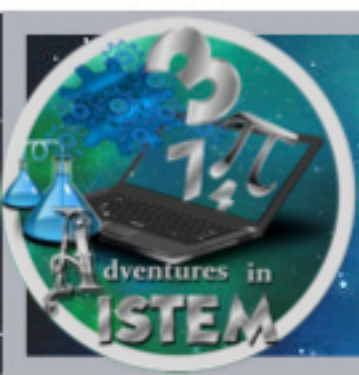The Ultimate Guide
5E Model

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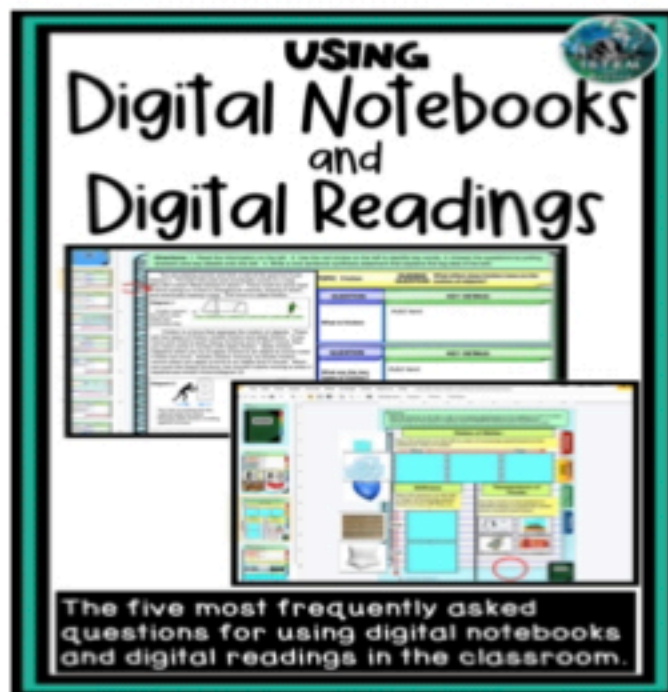
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