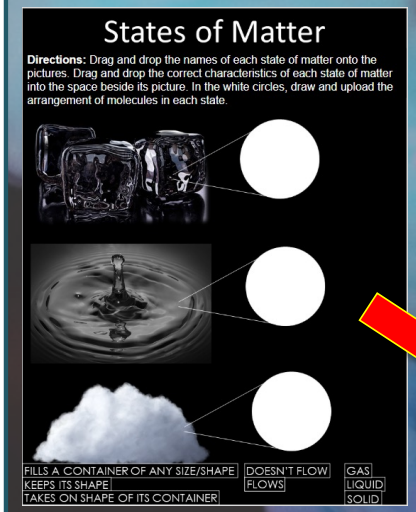
Liquids and Gases

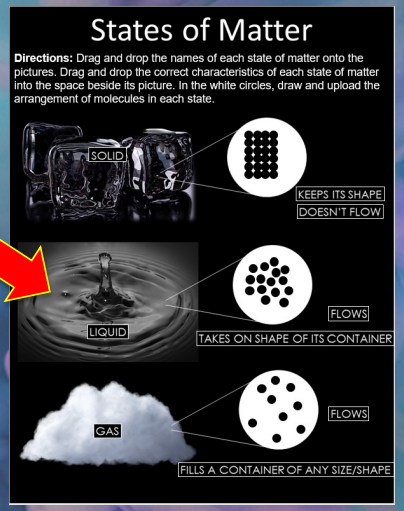
Digital Interactive Notebook

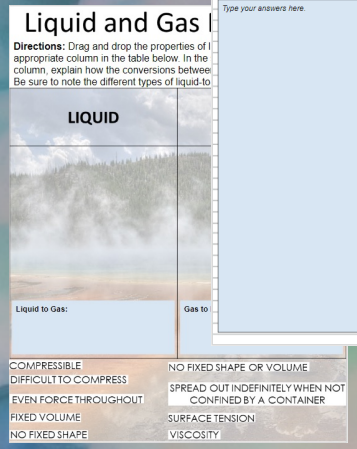
Activity 1: States of Matter

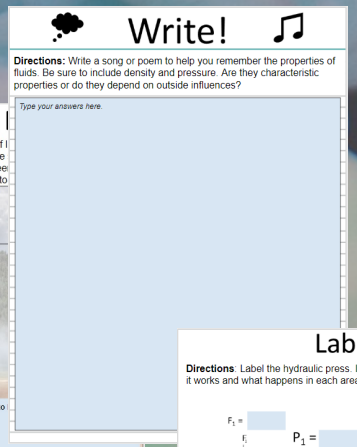
Activity 2: Liquid and Gas Properties

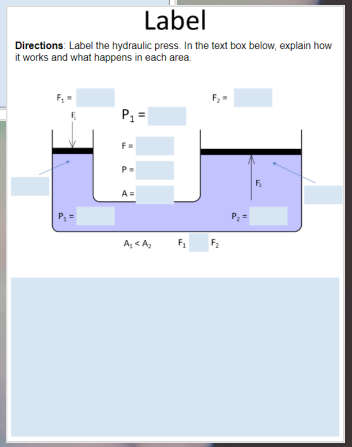
100% Digital and Interactive











Activity 3: Write!

Activity 4: Draw!

Activity 5: Label

Liquids and Gases
Digital Interactive Notebook

Thank you so much for taking the time to sample my **Liquids and Gases** digital interactive notebook.

This notebook contains **8** activities and **11** total pages which will allow your students to bring their notes and thoughts together.

The notebook is fully editable and slides can be removed if needed as well as added. Additional slides are a great way for students to add their own notes, thoughts, questions, etc. and can be easily inserted at any point.

Liquids and Gases
Digital Interactive Notebook

- So easy to understand and post. Have your students working in under 10 minutes.
- The majority of the items in this resource are fully editable
- Slides can be added or removed easily to suit your classroom needs.

Click here to immediately download a sample Space Digital INB → http://bit.ly/TWF-DINB

What’s Included?

This Digital Interactive Notebook is broken down into 5 activities. Activities can easily be removed if they don’t correspond to your curriculum needs.

Activity 1: States of Matter

Activity 2: Liquid and Gas Properties

Activity 3: Write!

Activity 4: Draw!

Activity 5: Label

Science Notebook

Your Name Here:

_____

Liquids and Gases

Liquid and Gas Properties

Directions: Drag and drop the properties of liquids and gases into the appropriate column in the table below. In the spaces at the bottom of each column, explain how the conversions between liquids and gases happen. Be sure to note the different types of liquid-to-gas conversion.

LIQUID	GAS
Liquid to Gas:	Gas to Liquid:

COMPRESSIBLE
DIFFICULT TO COMPRESS
EVEN FORCE THROUGHOUT
FIXED VOLUME
NO FIXED SHAPE

NO FIXED SHAPE OR VOLUME
SPREAD OUT INDEFINITELY WHEN NOT CONFINED BY A CONTAINER
SURFACE TENSION
VISCOSITY

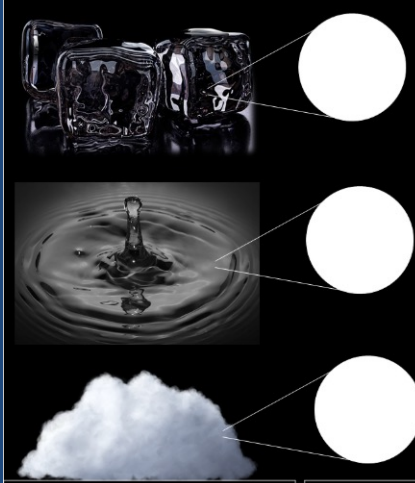
Write!

Directions: Write a song or poem to help you remember the properties of fluids. Be sure to include density and pressure. Are they characteristic properties or do they depend on outside influences?

Type your answers here.

States of Matter

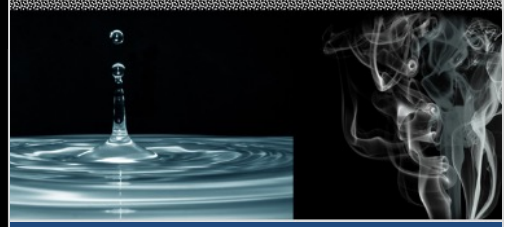
Directions: Drag and drop the names of each state of matter onto the pictures. Drag and drop the correct characteristics of each state of matter into the space beside its picture. In the white circles, draw and upload the arrangement of molecules in each state.



FILLS A CONTAINER OF ANY SIZE/SHAPE
KEEPS ITS SHAPE
TAKES ON SHAPE OF ITS CONTAINER

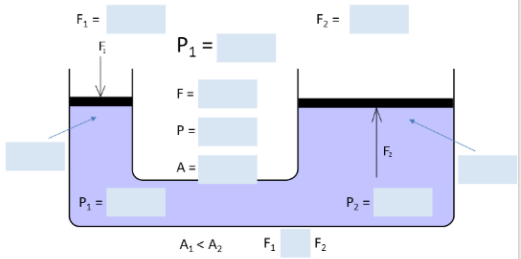
DOESN'T FLOW
FLOWS

GAS
LIQUID
SOLID

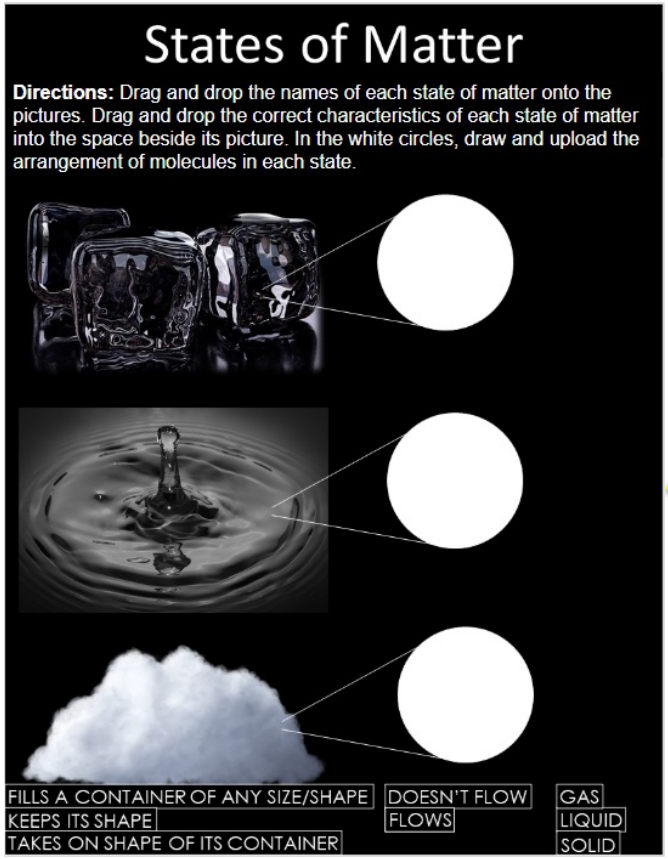


Label

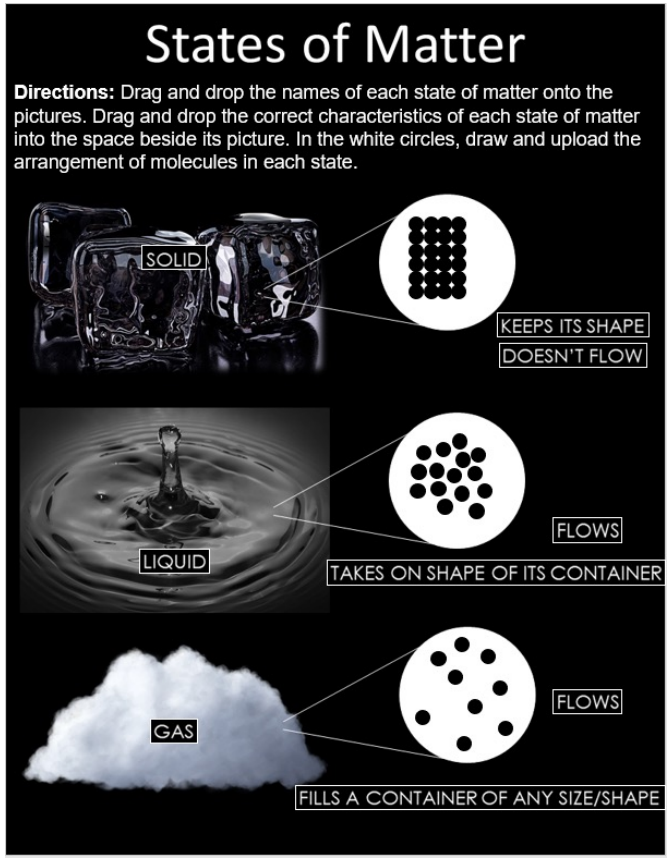
Directions: Label the hydraulic press. In the text box below, explain how it works and what happens in each area.



Interactive Drag and Drop Activities



Students are able to move objects around the screen to complete the activity



Creative Activities

Write!

Directions: Write a song or poem to help you remember the properties of fluids. Be sure to include density and pressure. Are they characteristic properties or do they depend on outside influences?

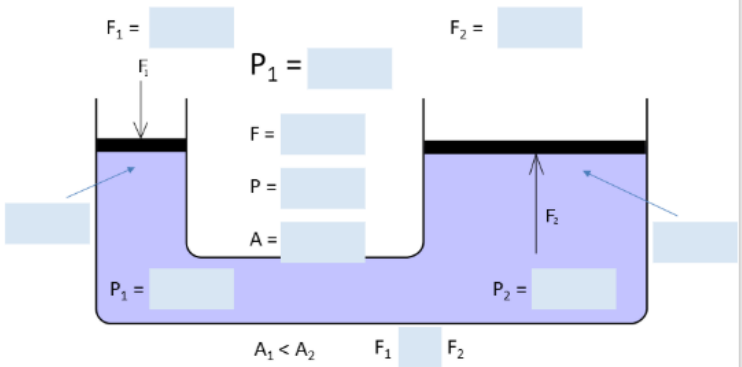
Type your answers here.

Students are able to express their creativity while demonstrating knowledge of the topic.

Short Answer and Other Reinforcing Activities to Improve Retention

Label

Directions: Label the hydraulic press. In the text box below, explain how it works and what happens in each area.



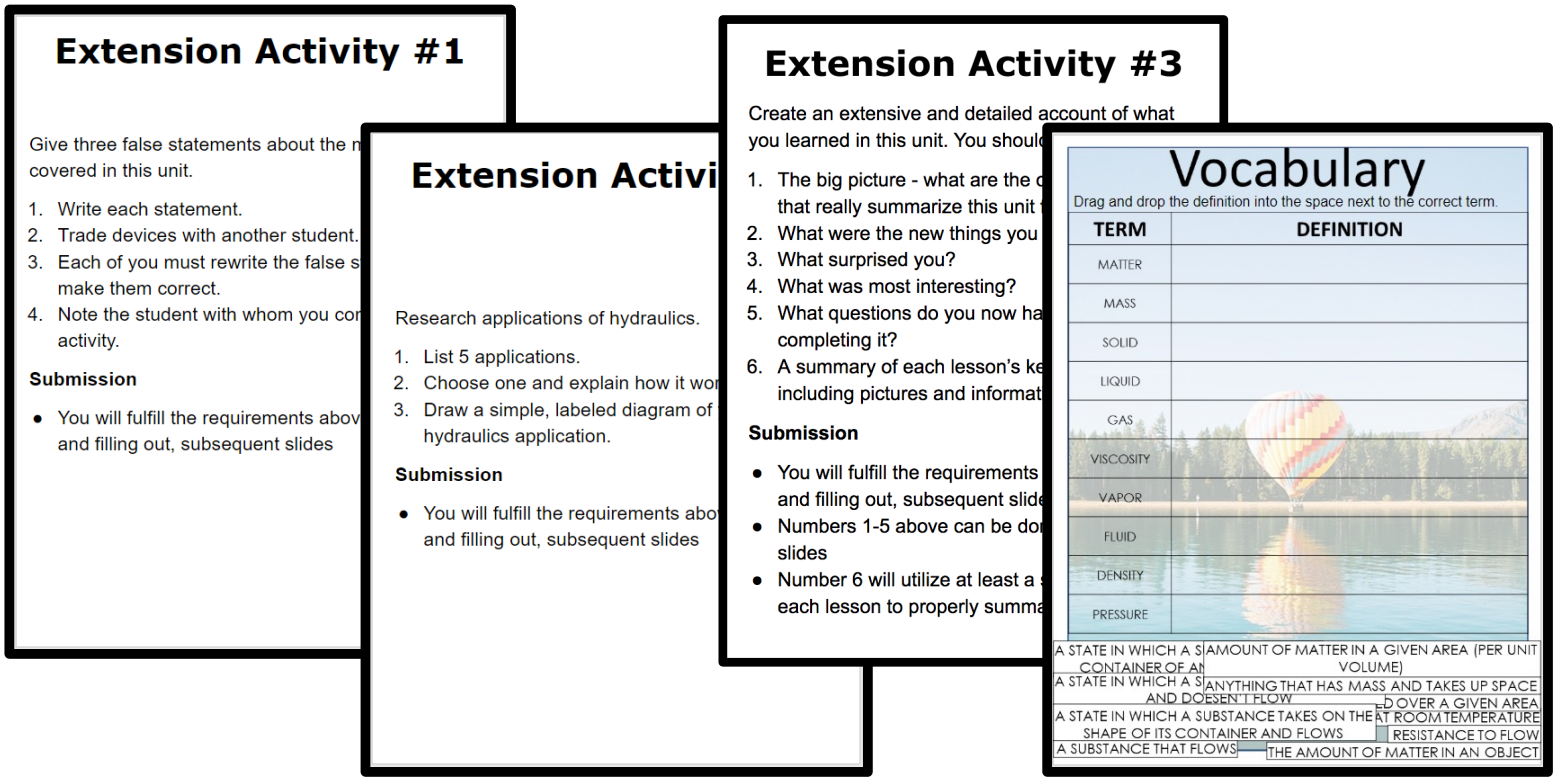
Draw!

Directions: State Pascal's Law and draw a figure that shows it. Upload your drawing below.

Pascal's Law:

Vocabulary and Extension Activities

As additional activities for early finishers or part of the main notebook assessment, your digital interactive notebook comes with three extension activities/projects plus a vocabulary section where students match terms with their definitions.



Extension Activity #1

Give three false statements about the n
covered in this unit.

1. Write each statement.
2. Trade devices with another student.
3. Each of you must rewrite the false s
make them correct.
4. Note the student with whom you cor
activity.

Submission

- You will fulfill the requirements abov
and filling out, subsequent slides

Extension Activi

Research applications of hydraulics.

1. List 5 applications.
2. Choose one and explain how it wor
3. Draw a simple, labeled diagram of
hydraulics application.

Submission

- You will fulfill the requirements abo
and filling out, subsequent slides

Extension Activity #3

Create an extensive and detailed account of what
you learned in this unit. You shoul

1. The big picture - what are the c
that really summarize this unit
2. What were the new things you
3. What surprised you?
4. What was most interesting?
5. What questions do you now ha
completing it?
6. A summary of each lesson's ke
including pictures and informat

Submission

- You will fulfill the requirements
and filling out, subsequent slide
- Numbers 1-5 above can be do
slides
- Number 6 will utilize at least a
each lesson to properly summa

Vocabulary

Drag and drop the definition into the space next to the correct term.

TERM	DEFINITION
MATTER	
MASS	
SOLID	
LIQUID	
GAS	
VISCOSITY	
VAPOR	
FLUID	
DENSITY	
PRESSURE	

A STATE IN WHICH A S
CONTAINER OF AN
A STATE IN WHICH A S
AND DOESEN'T FLOW
A STATE IN WHICH A SUBSTANCE TAKES ON THE
SHAPE OF ITS CONTAINER AND FLOWS
A SUBSTANCE THAT FLOWS

AMOUNT OF MATTER IN A GIVEN AREA (PER UNIT
VOLUME)
ANYTHING THAT HAS MASS AND TAKES UP SPACE
D OVER A GIVEN AREA
AT ROOM TEMPERATURE
RESISTANCE TO FLOW
THE AMOUNT OF MATTER IN AN OBJECT

Liquids and Gases: Digital Interactive Notebook

- Works with Google and OneDrive cloud services
- If you don’t currently have a Google account, you can sign up for one completely free and get started in 5 minutes. If you’re a OneDrive user, no problem. Simply download the notebook as a PowerPoint file to your computer then upload it to your OneDrive account.
- The majority of the items in this resource are fully editable. In addition, slides can be added or removed easily to suit your classroom needs.

Interactive Notebooks

THEN: Before computers, we used interactive notebooks to engage our students and keep their notebooks organized and accessible. This, however, required a lot of material and the unwelcome task of lugging them all home with you to mark. But we used them because they were effective, and allowed us to effectively assess our students' understanding.

NOW: Why use digital interactive notebooks? As prices decrease, many schools are moving towards a 1:1 computer-student ratio and are becoming digital. The way we teach needs to keep up. You don't even need a class set of computers; a personal device (cell phone, laptop, tablet, etc.) will work just as well.