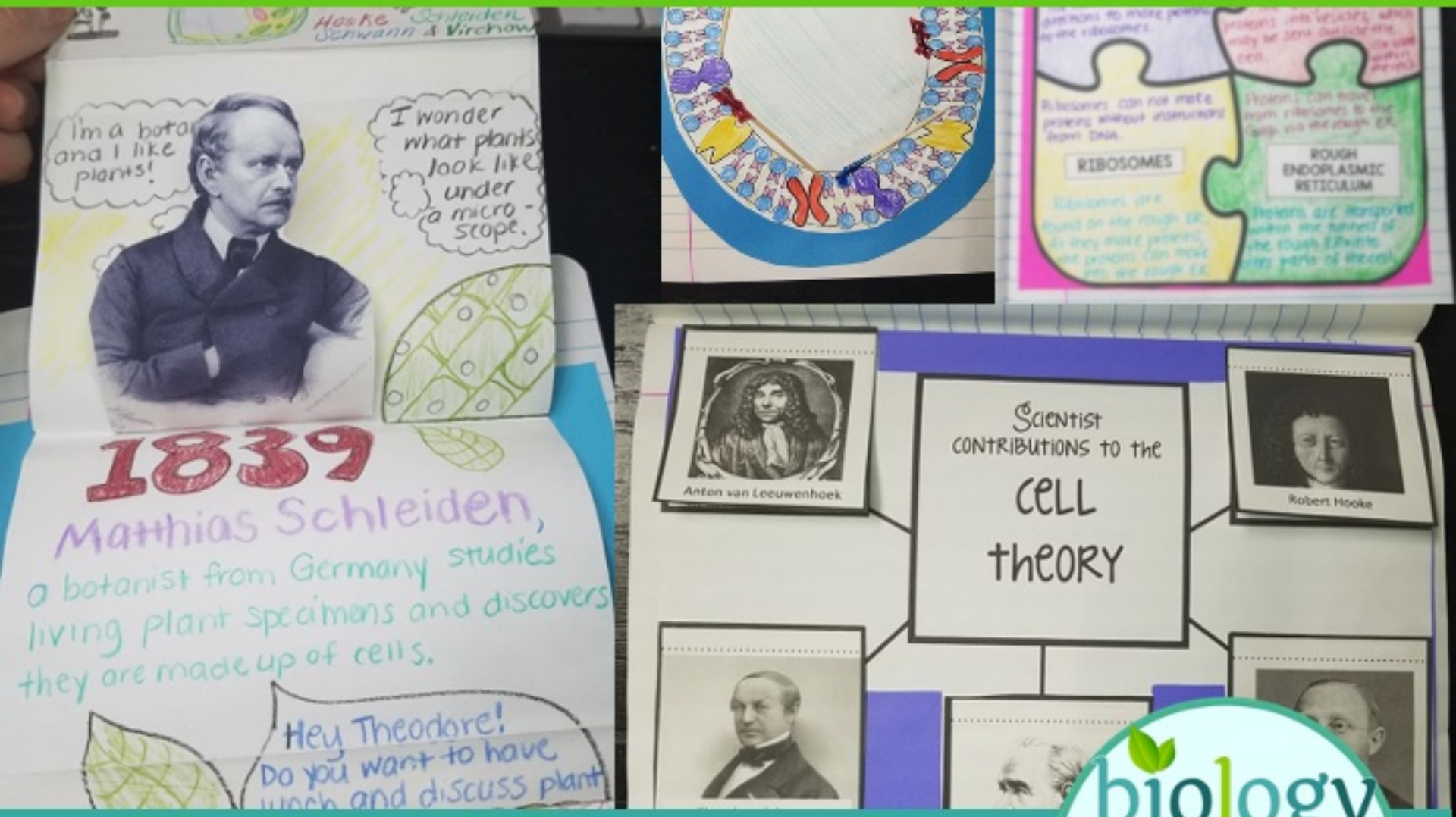
CELLS

INTERACTIVE NOTEBOOK



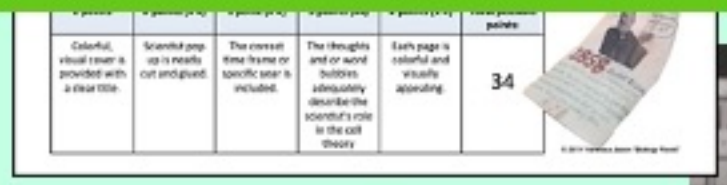
18+ activities & foldables

Print and paperless

biology roots

CELLS

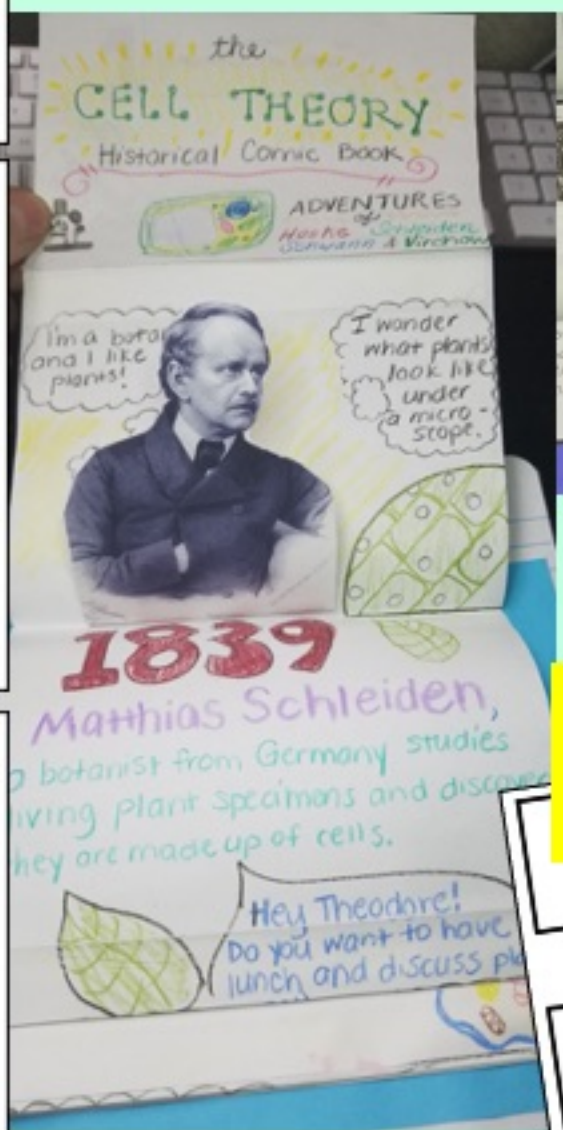
Interactive Notebook

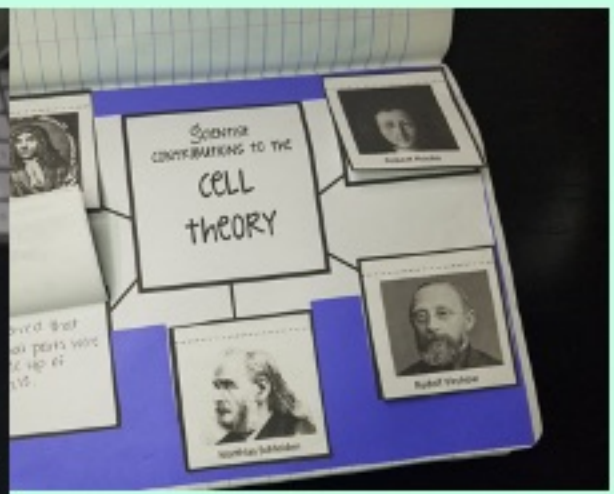


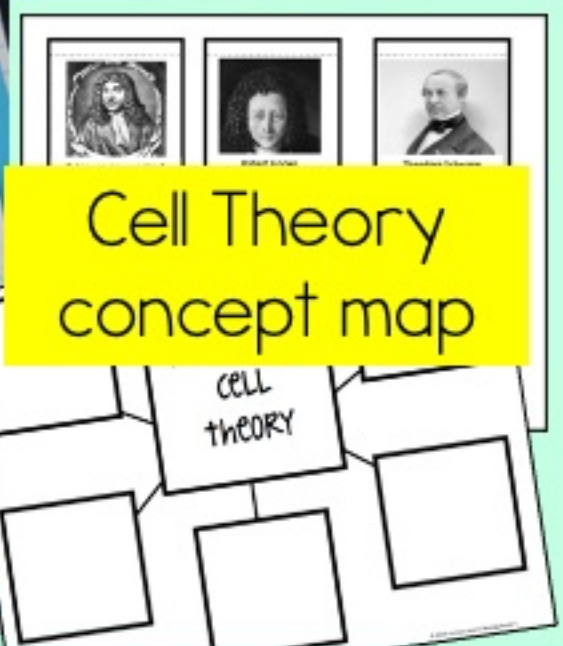


Cell Theory Pop Up Timeline
(folds like an accordion)









Cell Theory concept map

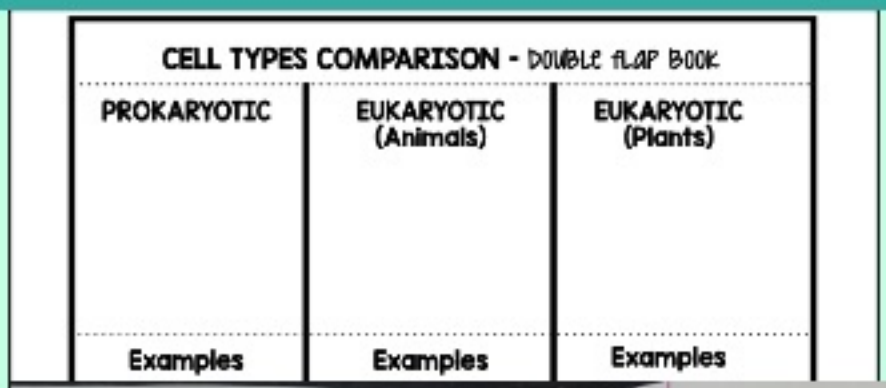
Cell Theory

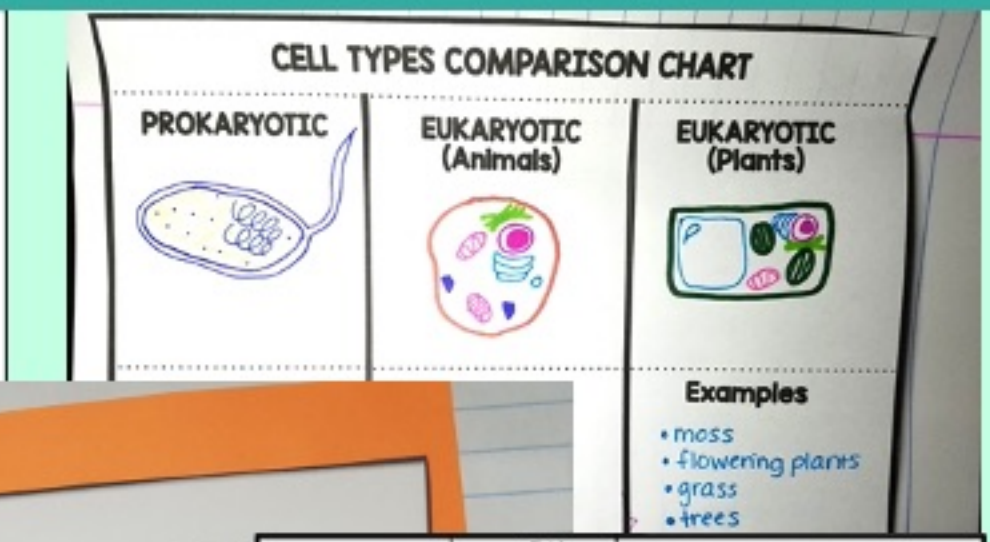
Differentiated paper version & digital version

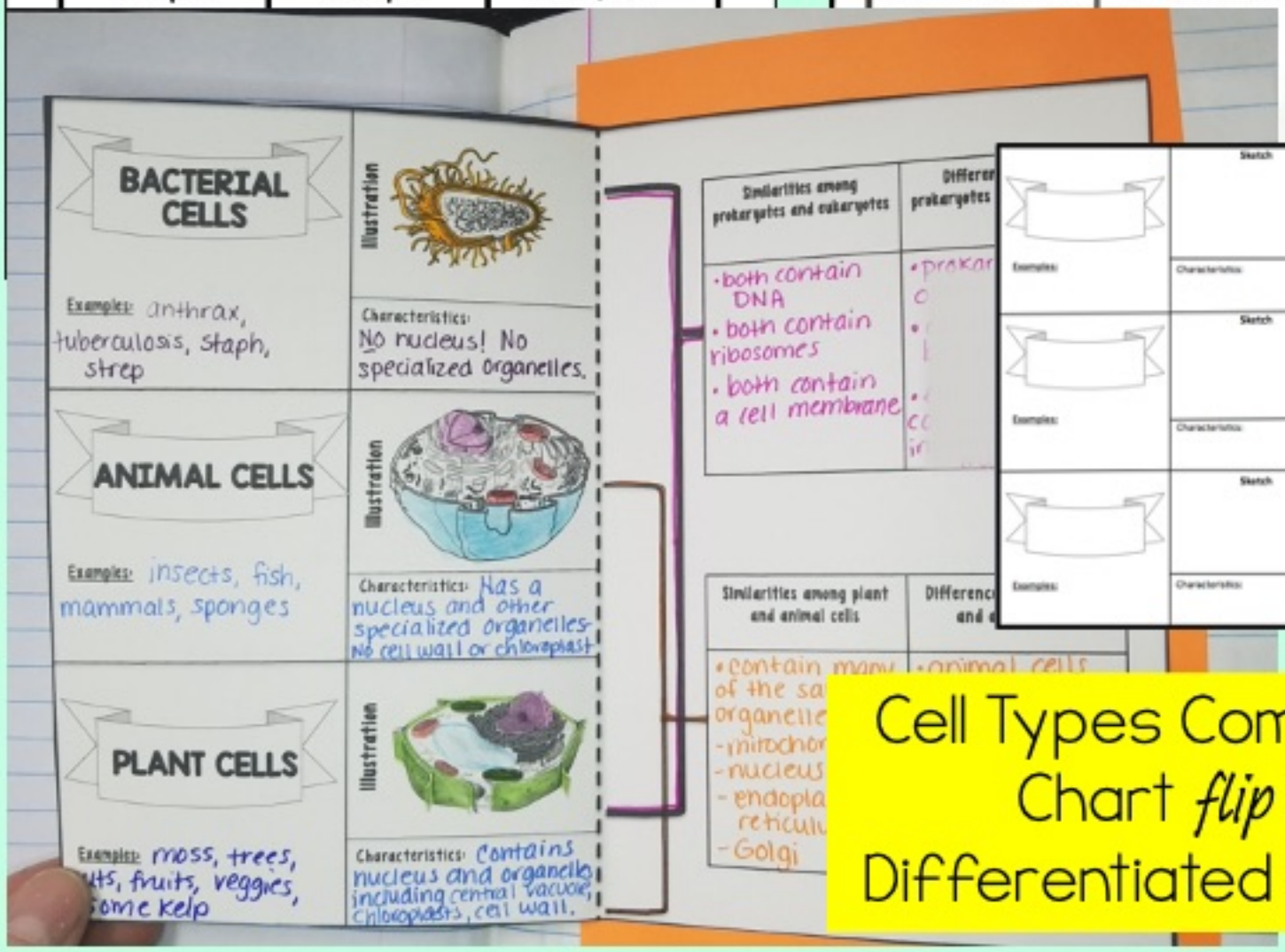
Comparing Cells

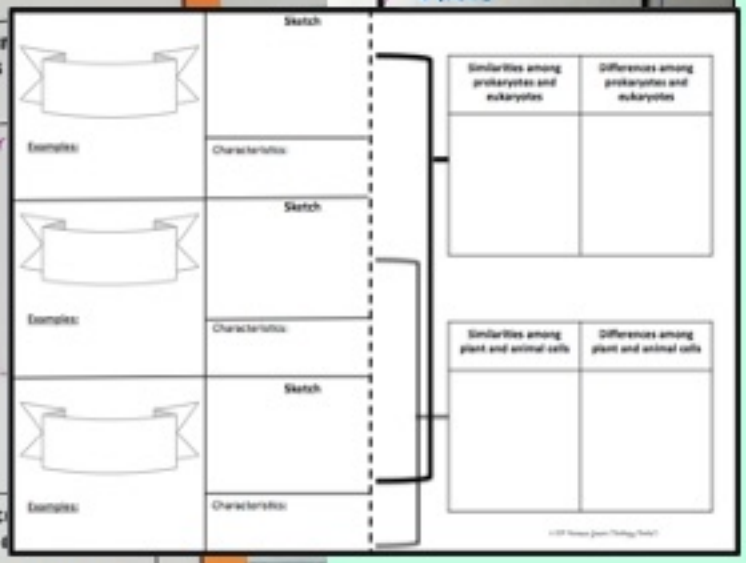
Eukaryotic vs. Prokaryotic

Plant vs. Animal

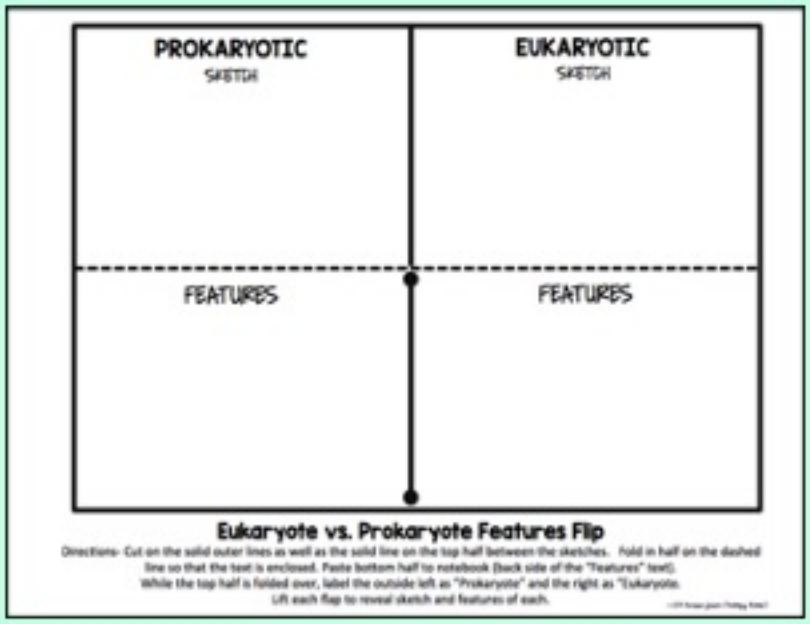


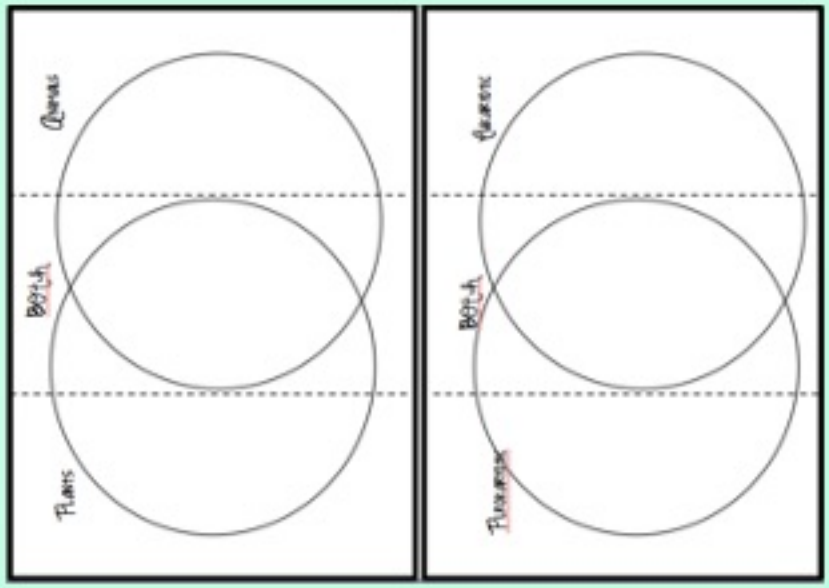


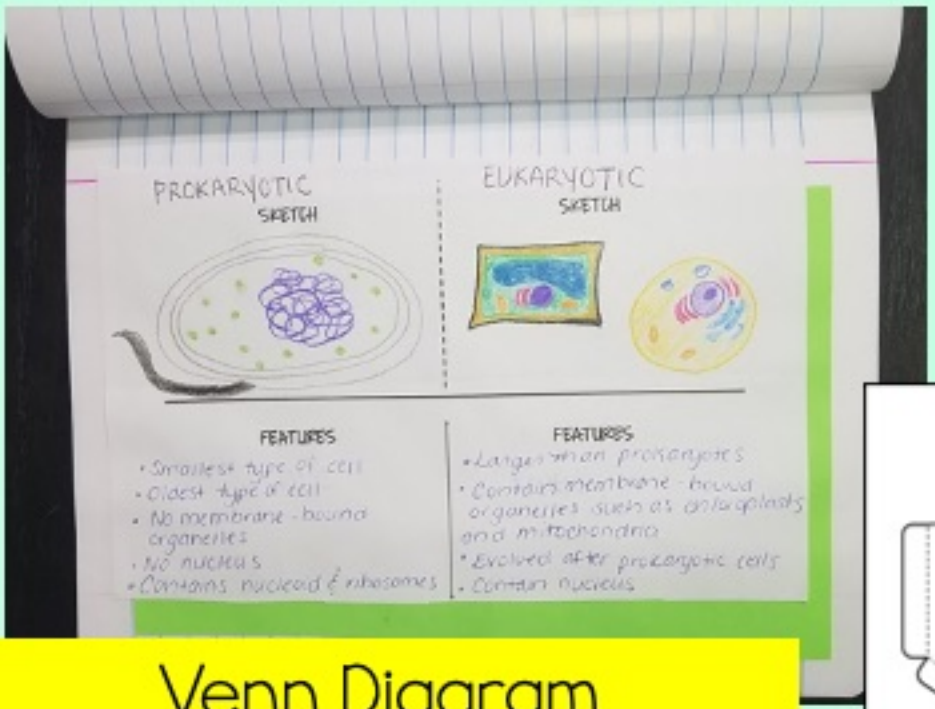


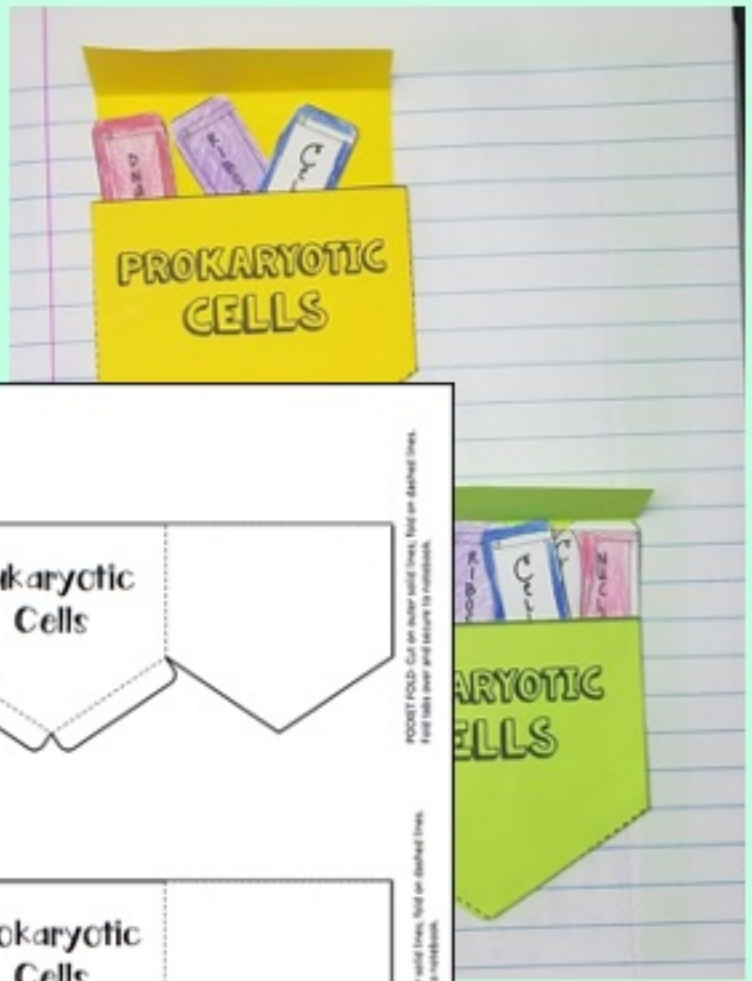


Cell Types Comparison Chart *flip book*
Differentiated versions



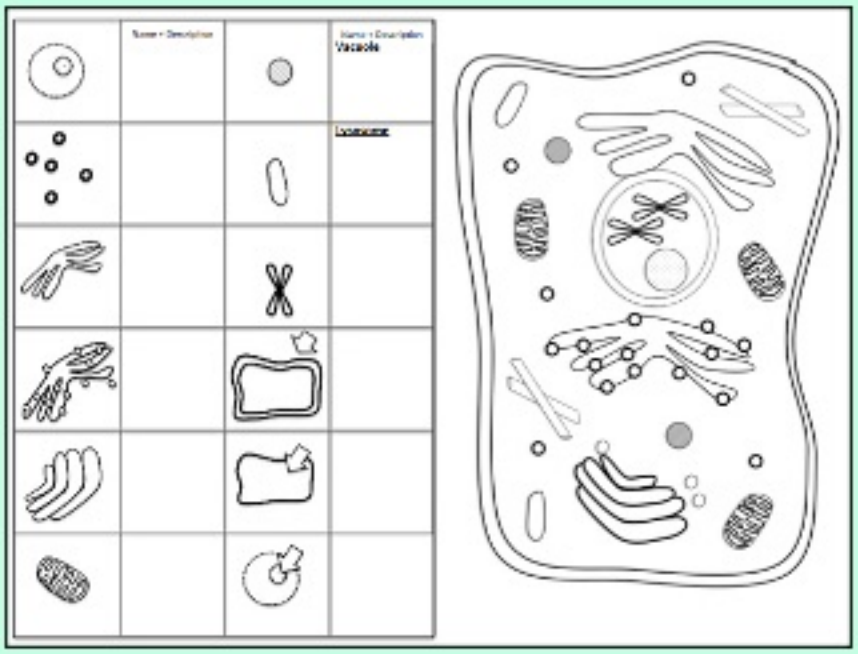


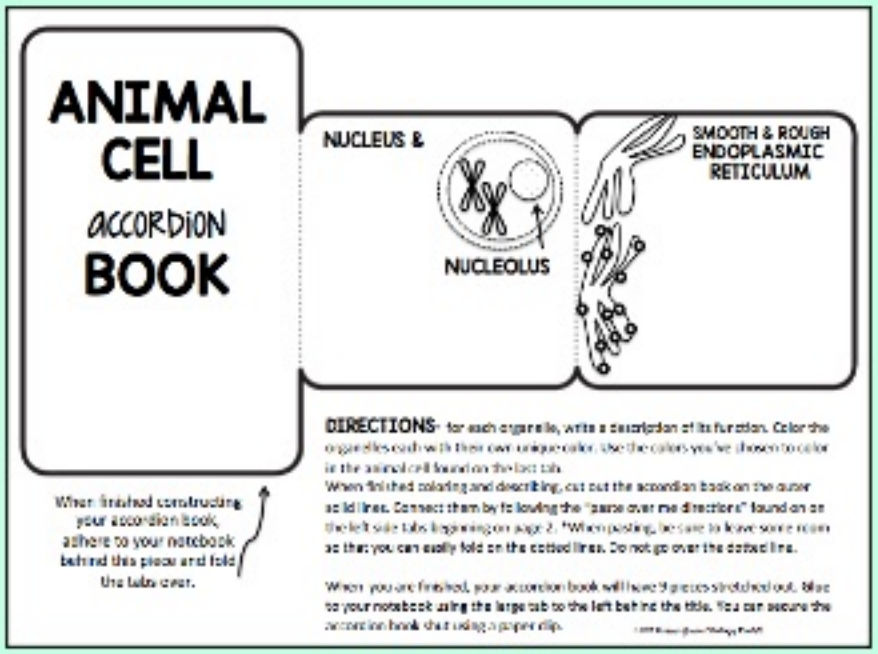




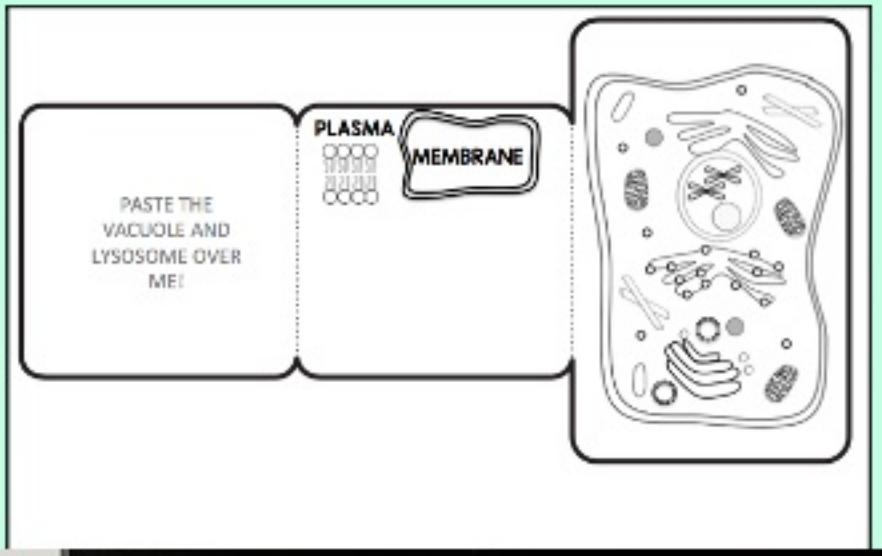
Venn Diagram
Pick Pockets
Differentiated Flip books

All foldables come with instructions for students right on the page

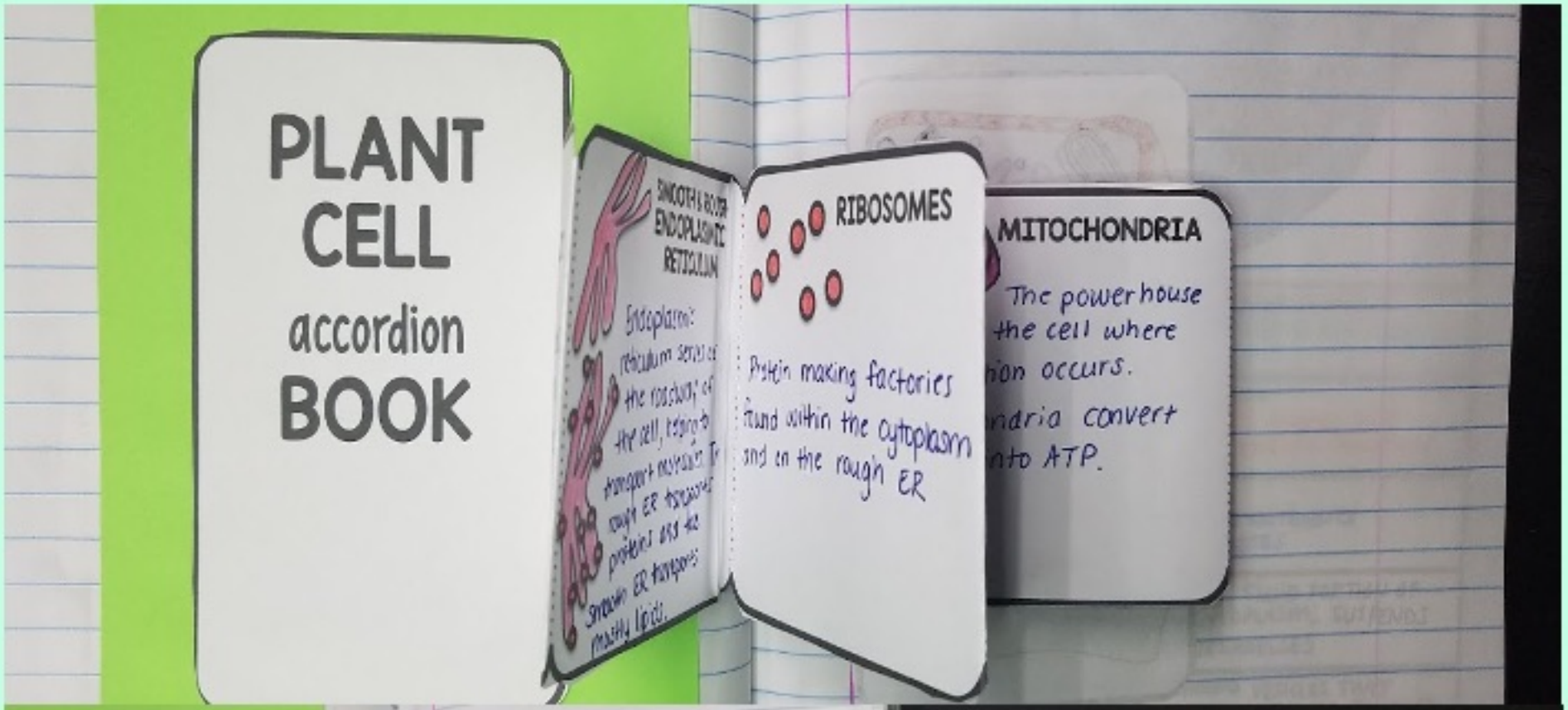

Vacuole

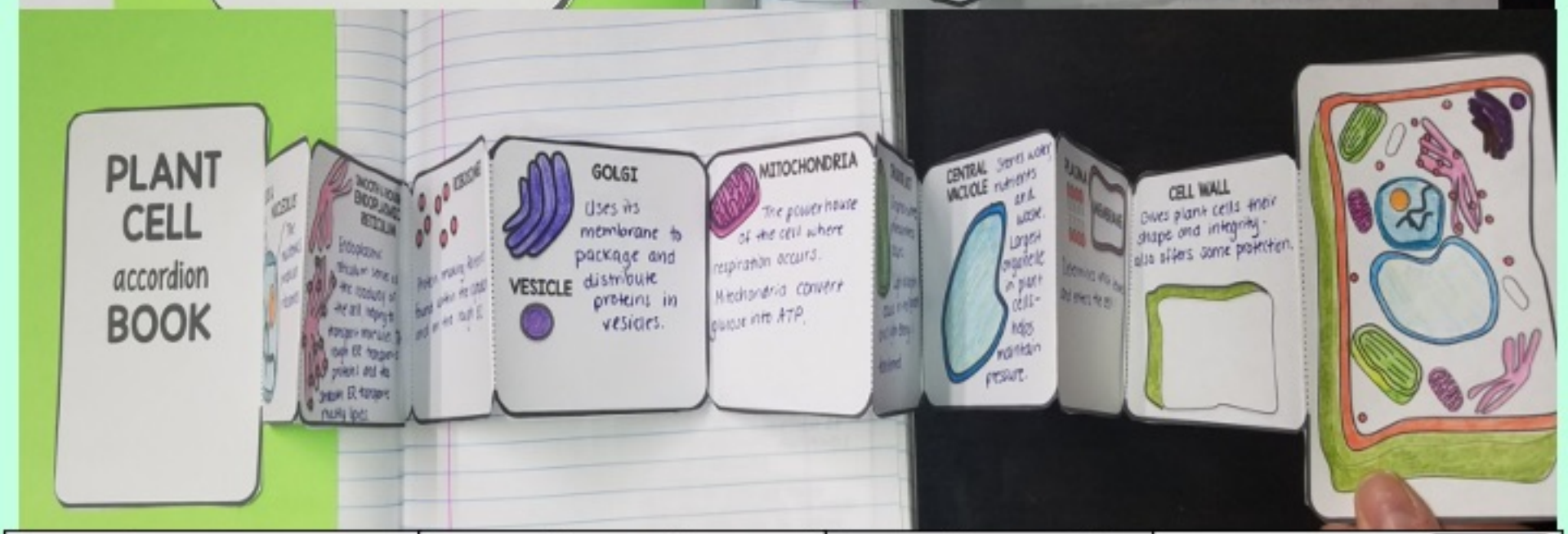

ANIMAL CELL
accordion BOOK
NUCLEUS &
NUCLEOLUS
SMOOTH & ROUGH ENDOPLASMIC RETICULUM
DIRECTIONS- for each organelle, write a description of its function. Color the organelles each with their own unique color. Use the colors you've chosen to color in the animal cell found on the last tab.
When finished coloring and describing, cut out the accordion book on the outer solid lines. Connect them by following the "paste over me directions" found on the left side tabs beginning on page 2. *When pasting, be sure to leave some room so that you can easily fold on the dotted lines. Do not go over the dotted line.
When you are finished, your accordion book will have 9 pieces stretched out. Glue to your notebook using the large tab to the left behind the title. You can secure the accordion book shut using a paper clip.
When finished constructing your accordion book, adhere to your notebook behind this piece and fold the tabs over.

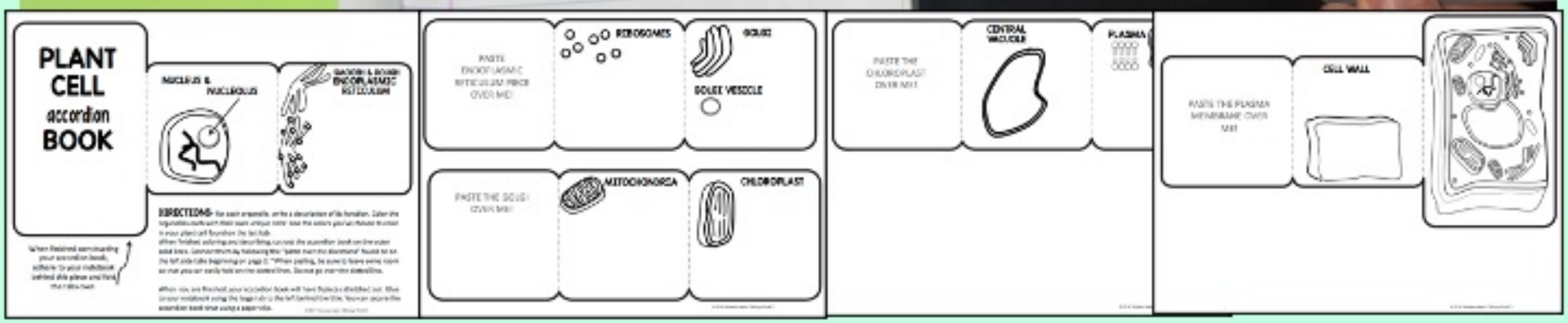

Nucleus - houses the DNA
Ribosomes - where translation/ protein synthesis take place
Smooth ER - ER - makes lipids
Golgi - packages proteins
mitochondria - makes ATP
Vacuole
Lysosome - helps digest bacteria
Nucleolus - produces ribosomes


PASTE THE VACUOLE AND LYSOSOME OVER ME!
PLASMA MEMBRANE

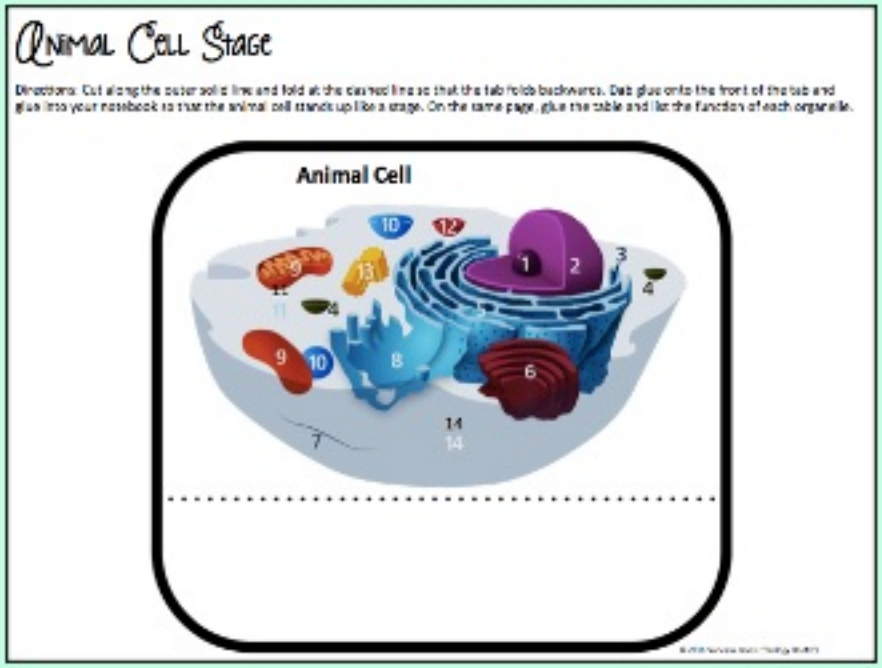

NUCLEOLUS
The nucleolus produces ribosomes.
SMOOTH & ROUGH ENDOPLASMIC RETICULUM
Smooth ER - assists in the production of lipids.
Rough ER - assists in the production and transportation of proteins.
RIBOSOMES
Protein making factories - found within cytoplasm and on the rough ER
GOLGI
Packages in proteins using its membrane
VESICLE
MITOCHONDRIA
The organelle where respiration occurs. The mitochondria breaks down glucose into ATP (usable energy)
PLASMA MEMBRANE
The plasma membrane controls what enters or exits the cell. It also maintains the cell's structure.


PLANT
CELL
accordion
BOOK
SMOOTH & ROUGH ENDOPLASMIC RETICULUM
RIBOSOMES
Protein making factories found within the cytoplasm and on the rough ER
MITOCHONDRIA
The powerhouse the cell where occurs.
convert
ATP.


PLANT
CELL
accordion
BOOK
GOLGI
Uses its membrane to package and distribute proteins in vesicles.
VESICLE
MITOCHONDRIA
The powerhouse of the cell where respiration occurs.
Mitochondria convert glucose into ATP.
CENTRAL VACUOLE
CELL WALL
Gives plant cells their shape and integrity.

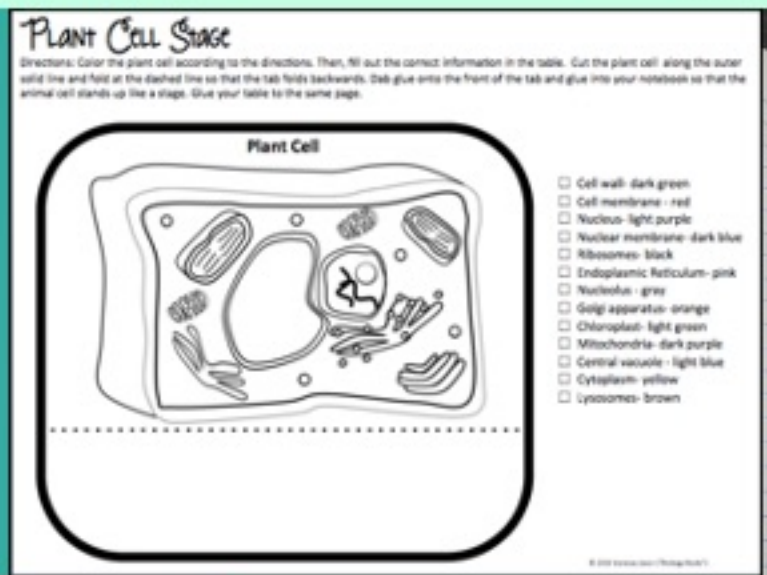

PLANT
CELL
accordion
BOOK
NUCLEUS & NUCLEOLUS
SMOOTH & ROUGH ENDOPLASMIC RETICULUM
DIRECTIONS:
RIBOSOMES
GOLGI
GOLGI VESICLE
MITOCHONDRIA
CHLOROPLAST
CENTRAL VACUOLE
CELL WALL

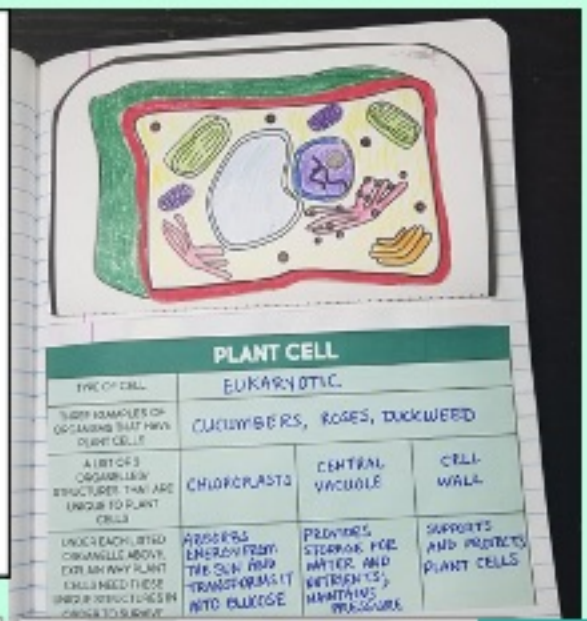
Animal Cells

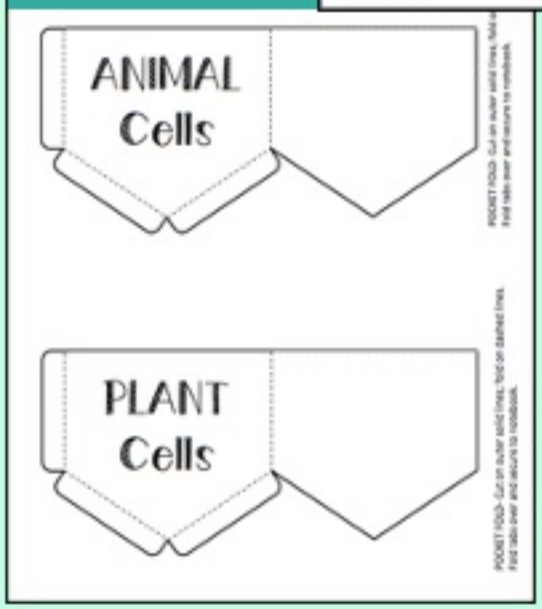




Plant Cells





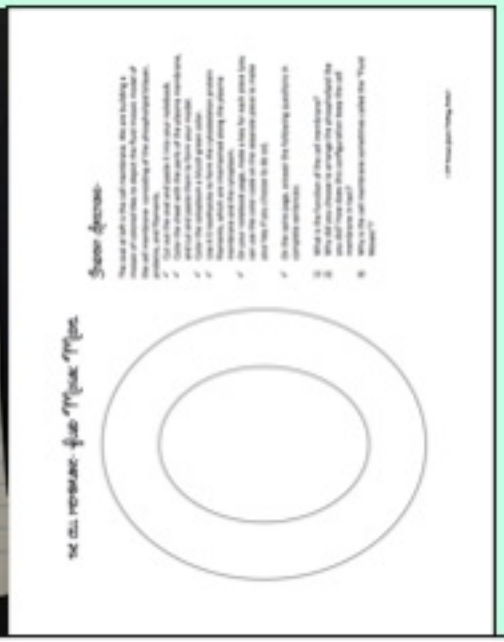


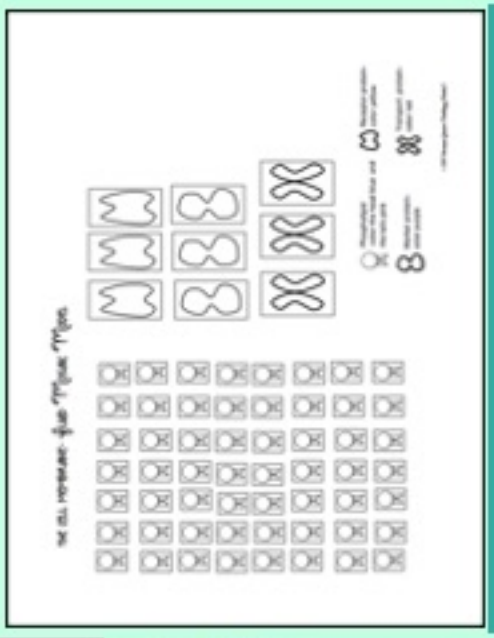
BOTH











Fluid Mosaic Model

Cell City Brochure

WELCOME TO CELL CITY!

Cell City is an up and coming place for entrepreneurs. You have been hired by the City Council to create a brochure introducing the following organelles and what their job in cell city entails:

- ✓ DNA
- ✓ Nucleus
- ✓ Plasma Membrane
- ✓ Golgi
- ✓ Endoplasmic reticulum
- ✓ Ribosomes
- ✓ Lysosomes
- ✓ Central vacuole
- ✓ Chloroplast
- ✓ Cell Wall
- ✓ Mitochondria

1 point (x11)	2 points (x11)	3 points (x11)	3 points x (x11)	1 point (x11)	3 points	4 points	5 points
The organelle is clearly labeled	A picture of the organelle is provided.	The organelle has been assigned an appropriat e role in	A clear metaphor is provided and the role in cell city is	The organelle pictured is colorful, neat, and accurate.	The brochure is neatly presented (no erase marks, white-out,	Cover is creative, colorful and visually appealin g to the	Workmanship and creativity. Points given for going the "extra mile", adding your own details.

Total Points Possible: 100 Total Points: _____

Brochure- Folding directions

Paper should be folded into 3 equal parts. Fold right hand section 3 over section 2, and then section 1 over sections 2 and 3.

The backside of section 1 will serve as your cover. Multiple organelles will be introduced on each section. Secure into notebook by pasting the backside of section 1.

NEATNESS COUNTS. A ROUGH DRAFT IS RECOMMENDED

1 2 3



Cellular Connections Puzzle

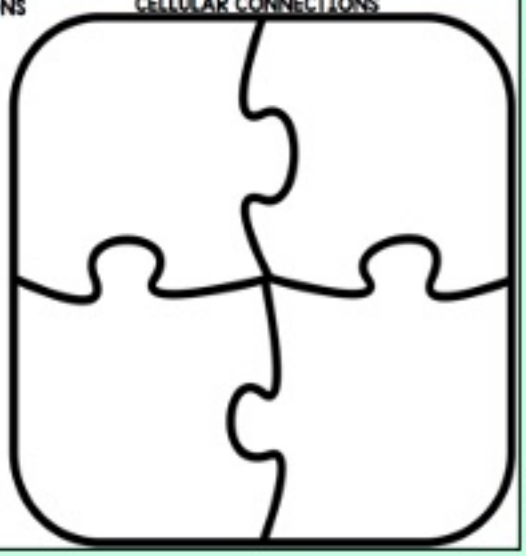
CELLULAR CONNECTIONS

Just as your body requires an individual organs to work together to function, the cell also requires an organelles to work together in order to survive.

The puzzle piece at right has four organelles. Think of ways that these organelles are connected.

On each puzzle piece, provide an example of how the organelle is connected to its neighbors.

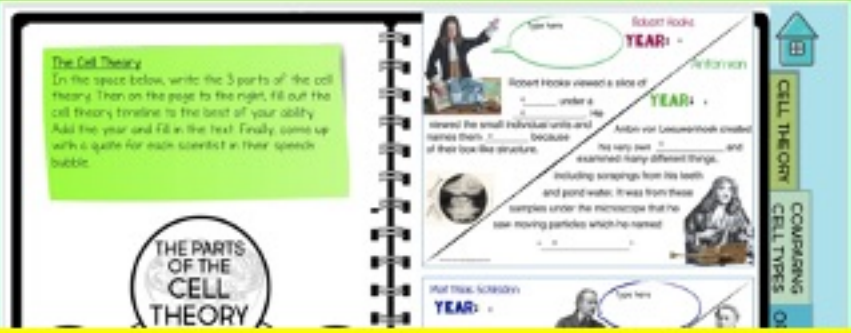
Cutting directions: Cut along the outside of the puzzle after you've completed it and paste it into your notebook.





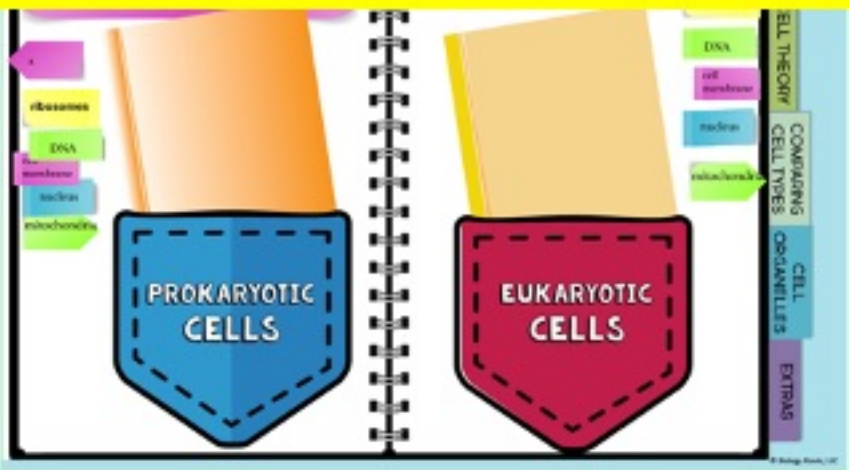
Digital paperless also included

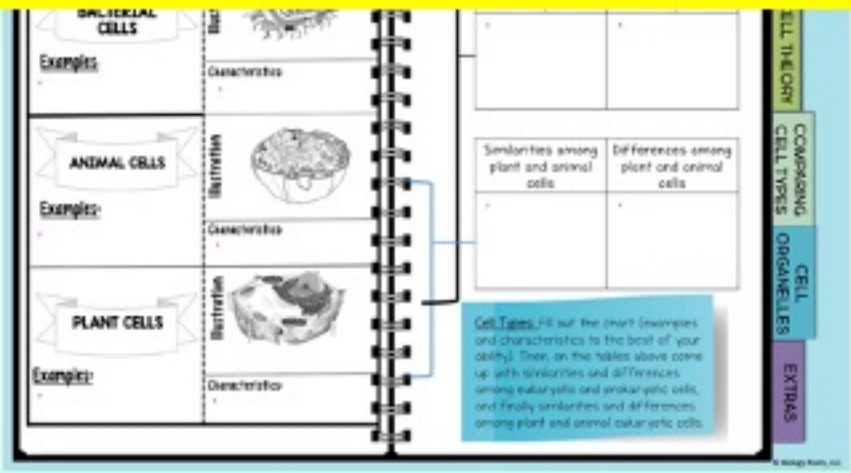


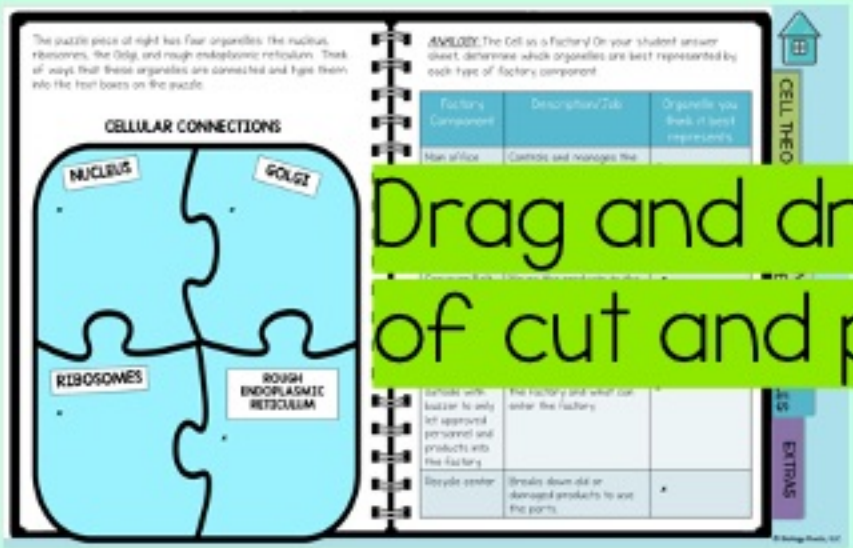


Available on Google Slides

(not all digital activities are pictured)







Drag and drop instead of cut and paste

