

interactive science
notebook setup
and
18 easy-to-use strategies
for the entire year

- Designed specifically for science interactive notebooks.
- Can be printed in color or in black on colored paper.
- Includes objectives, guidelines, expectations, contract, rubric, and grade recording sheet.
- Detailed student instructions for 18 higher level thinking easy-to-use strategies.
- Great reference to be glued in the front of students' interactive notebooks to be referred to throughout the year!

interactive notebook objectives

1. I can take notes about what I watch, do, and read on the right side of my notebook.
2. I can create a way to show what I know on the left side of my notebook.
3. I can reflect on what I learn through highlighting, reviewing, and connecting to previous topics throughout the year.
4. I can think about science on a deeper level than just facts.

guidelines

1. Table of contents is neat and up-to-date.
2. Student finds missing assignments from a classmate.
3. All of the expectations are followed.
4. Use the instructions at the front of your notebook to complete all activities correctly.

left side for
reflection
even #s

- Concept maps
- Venn diagrams
- 3-2-1 summaries
- Poems
- Other Reflection Assignments

right side for
learning
odd #s

- Notes
- Question strips
- Articles
- Webquest notes
- Notes from the teacher

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expectations:	reason:
Write neatly and clearly	To be able to read notes when reviewing
Keep activities up-to-date in the Table of Contents	Organization!
Give every page a number and title	To be able to find information easily
Label drawings, photos, graphs, etc.	For clarity, detail and understanding
Use colored pencils, markers, crayons, or highlighters.	Color can show different topics, labels, or ideas. Fun!
Draw 1 line through any mistakes.	Making mistakes is a great way to learn, and it helps us to remember there is always more to learn!

contract

Scientists use notebooks to record data, experiments, drawings, charts, and many other tasks. You are a scientist, and you will be using your science notebook frequently this year. Your notebook will be a place for all of your science notes and activities that will help you fully understand new concepts. Sign your name below to show that you understand the objectives, guidelines, and expectations for your interactive notebook.

Signature: _____ Date: _____

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science notebook rubric

student name _____

grading category	well done! (4)	good work! (3)	needs more effort! (2)	score
left-side processing	ALL required activities are completed. ALL information is clearly understood through the use of correct vocabulary.	MOST required activities are completed. MOST information is clearly understood through the use of SOME correct vocabulary.	SOME required activities are completed. LITTLE information is clearly understood because the vocabulary is not used correctly.	
right-side information	ALL required notes are completed. ALL information recorded is accurate.	MOST required notes are completed. MOST information recorded is accurate.	SOME required notes are completed. LITTLE information recorded is accurate.	
scientific drawings	Drawings are USUALLY carefully drawn, ALWAYS detailed, and ALWAYS accurately labeled	Drawings are SOMETIMES carefully drawn, USUALLY detailed, and USUALLY accurately labeled.	Drawings are RARELY carefully drawn, SLIGHTLY detailed, and OFTEN accurately labeled. (Even if you are not a great artist, you can draw things carefully.)	
basic requirements	Table of contents is FULLY up-to-date, page numbers are ALWAYS listed, ALL activities have titles, and NO activities are missing.	Table of contents is MOSTLY up-to-date, page numbers are USUALLY listed, MOST activities have titles, and LESS THAN 2 activities are missing.	Table of contents is NOT up-to-date, page numbers are SOMETIMES listed, SOME activities have titles, and MANY activities are missing.	
neatness and orderliness	Handwriting is USUALLY neat. Assignments ALWAYS glued in neatly and orderly.	Handwriting is SOMETIMES neat. Assignments OFTEN glued in neatly and orderly.	Handwriting is SLOPPY. Assignments NOT CAREFULLY glued in neatly and orderly.	

score: _____/20 grade: _____

Cut along the dotted line.

how can i improve?

Date _____

- 4 3 2 Left-side processing
- 4 3 2 Right-side information
- 4 3 2 Scientific drawings
- 4 3 2 Basic requirements
- 4 3 2 Neatness & orderliness

Grade _____

Comments: _____

Date _____

- 4 3 2 Left-side processing
- 4 3 2 Right-side information
- 4 3 2 Scientific drawings
- 4 3 2 Basic requirements
- 4 3 2 Neatness & orderliness

Grade _____

Comments: _____

Date _____

- 4 3 2 Left-side processing
- 4 3 2 Right-side information
- 4 3 2 Scientific drawings
- 4 3 2 Basic requirements
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Grade _____

Comments: _____

Date _____

- 4 3 2 Left-side processing
- 4 3 2 Right-side information
- 4 3 2 Scientific drawings
- 4 3 2 Basic requirements
- 4 3 2 Neatness & orderliness

Grade _____

Comments: _____

Cut along the dotted line.

unit assignments

Preview Assignments


Objective: You can help your brain remember what you already know and preview what you will learn.

- ☐ Write the title of the unit clearly in the strip in the middle.
- ☐ Choose 4 pictures from your prior knowledge or from the book that you think are important for this unit.
- ☐ Include a 1 sentence caption for each picture.
- ☐ Add color!!!

title	

Dictionary Entry

Objective: You will expand your vocabulary by being able to speak and write with these words.

word -point #1 -point #2 -point #3 	

- ☐ There will be 4 words on each page.
- ☐ All words should be in alphabetical order.
- ☐ Write the word.
- ☐ Write 3 bullet points to describe the word. Use these sentence stems to help.
- ☐ The definition is _____.
- ☐ It is similar to _____. It looks like _____.
- ☐ It feels like _____. You use it when you _____.

Draw a picture to help you remember. Use pencils or crayons only.

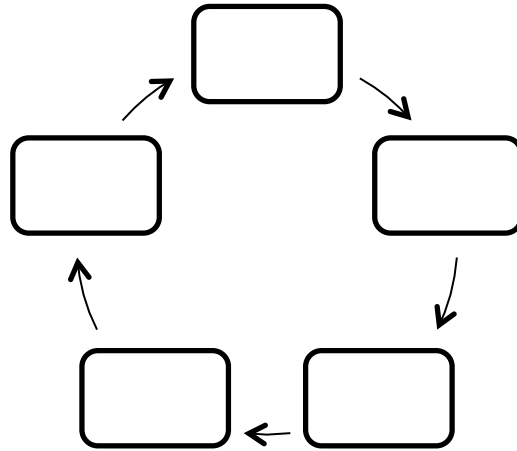
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note-taking (right-side activities- usually 😊)

Cycle Organizer

Objective: You can use a cycle organizer to show how **events repeat**.

- ☐ Use words and pictures to explain each step in the cycle.
- ☐ There may be more than 5 steps or less than 5 steps.
- ☐ Write a 2 sentence summary below the cycle.
- ☐ Add color!!!
- ☐ Be sure to add a title.
- ☐ Example: Show the life cycle of a mammal, insect, or plant.



topic #1 topic #2

Topic # 1	Topic # 2	Topic # 3	Topic # 4

T-Chart and Table

Objective: You can use a t-chart or a table in many ways to **organize and classify information**.

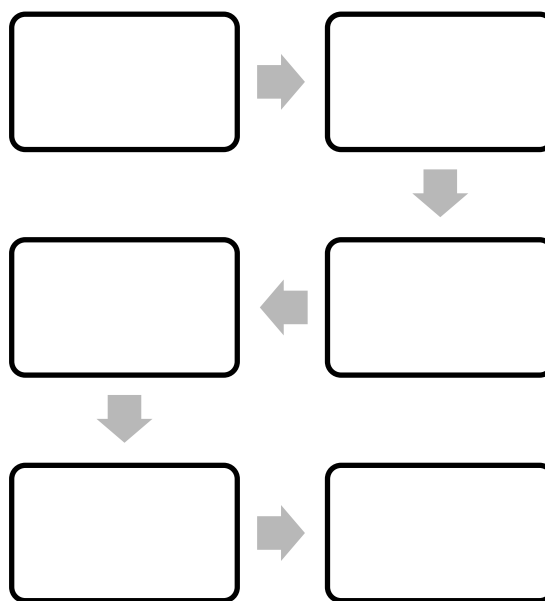
- ☐ Draw a t-chart or a table with several columns.
- ☐ The t-chart or table should take up most of the page.
- ☐ List a topic or a characteristic at the top of each column.
- ☐ Use bullet points or numbers to make lists on either side.
- ☐ Be sure to add a title.
- ☐ Example: Sort vocabulary about adaptations of plants and animals.

Cut along the dotted line.

Flow Chart

Objective: You can use a flow chart to show the **movement or relation** of objects or events.

- ☐ Use pictures and words to describe each step.
- ☐ There may be more or less than 6.
- ☐ Write a 2 sentence summary below the flow chart.
- ☐ Add color!!!
- ☐ Be sure to add a title.
- ☐ Example: Show how a cell is related to an organ system.



Classify and Categorize

Objective: You can use a simple table to show how data is related.

- ☐ Think about how many columns and rows you will need.
- ☐ Use a ruler to draw your chart on a half page or full page.
- ☐ Be sure to add a title.

	Physical Weathering	Chemical Weathering	Erosion
Definition			
Causes			
Real life Example			

Columns

Rows

	Trial #1	Trial #2	Average
Dropping the ball from 30 cm			
Dropping the ball from 60 cm			

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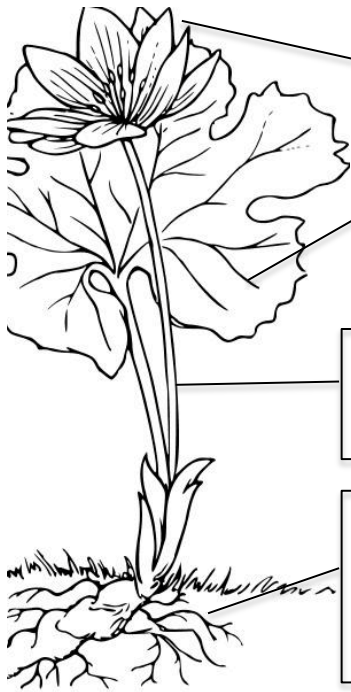
2-Column Notes

Objective: You can use a t-chart to take notes about what you hear and read.

- ☐ Draw a t-chart to cover the entire page.
- ☐ Use bullet points or numbers to make lists on either side.
- ☐ Create a question from the subtitle on a website or book.
- ☐ Try to answer your question from what you read.
- ☐ Be sure to add a title.
- ☐ Example: Use this when recording notes from a Webquest or a textbook.

**topic or
question**

**notes or
answer**



Petals attract
pollinators.

Leaves soak
up sunlight.

The stem holds
up the plant.

Roots soak up
water and
nutrients.

Scientific Drawings

Objective: You need to be able to record what you see and experience.

- ☐ Your drawing should be neatly drawn and detailed.
- ☐ Label with a sentence. Include its name and what it does.
- ☐ Add color!!!
- ☐ Be sure to add a title.
- ☐ Example: Draw what you see in a microscope. Label the different sections.

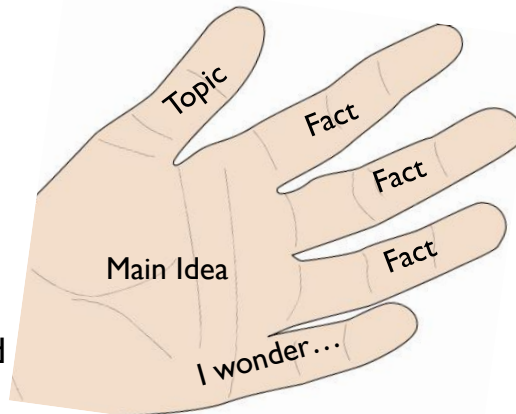
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reflection assignments (left-side activities)

5 Finger Retell

Objective: You need to comprehend what you read or hear and find the main idea.

- ☐ Carefully trace your hand.
- ☐ Fill in each finger with 1 or more words.
- ☐ You should be able to retell (aloud or in writing) using the hints on the fingers.
- ☐ Be sure to add a title.
- ☐ Example: Watch a video about weather and climate. The “topic” is weather and climate. Find the main idea and 3 facts.



Moving Motions

Objective: You should create motions to explain a vocabulary word or idea.

- ☐ Create motions to explain a word or idea.
- ☐ Clearly write out AND draw the steps, so that a classmate can follow them.
- ☐ Be sure to add a title.
- ☐ Example: Explain the process of photosynthesis using motions.

CD Cover

Objective: You should create a CD cover that explains the song from the lesson.

- ☐ Create and draw a CD cover that is attractive and colorful!!!
- ☐ You must include the topic.
- ☐ You must include 3 facts in complete sentences.
- ☐ Be sure to add a title.
- ☐ Example: Draw a CD cover that explains the Water Cycle song.
- ☐ Challenge: Create your own song to go with the CD cover.

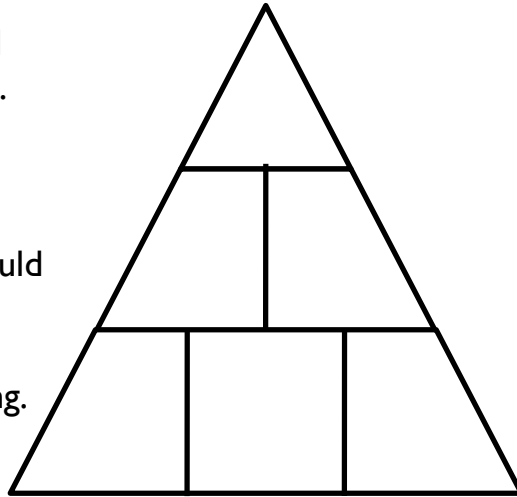


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3-2-1 Summary

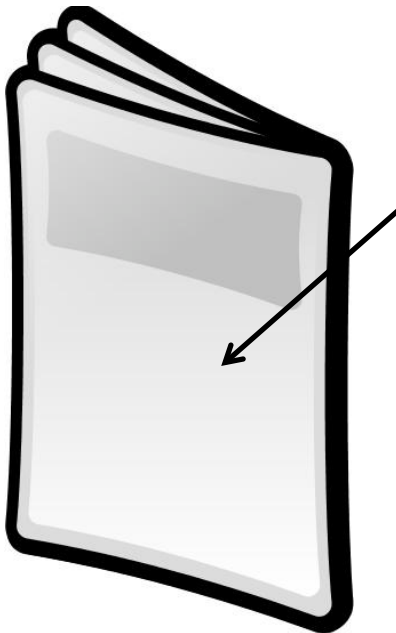
Objective: You should understand and reflect about what you read or heard.

- ☐ Draw a pyramid like the one at the right.
- ☐ All 6 statements and questions should be in complete sentences.
- ☐ Write 3 facts that are new to you.
- ☐ Write 2 things you found interesting.
- ☐ Write 1 question that you are still wondering OR that can be answered with the other 5 facts.
- ☐ Be sure to add a title.
- ☐ Example: When reading about a biome, find 3 new facts, 2 interesting facts, and ask 1 question.



Magazine Cover

Objective: You should create a magazine cover that displays the main ideas of what you read or heard.



- ☐ Look at some classroom magazines to get ideas.
- ☐ Create and draw a magazine cover that is attractive and colorful!!!
- ☐ You must include the topic.
- ☐ You must include 4 extra headings that highlight a story in the magazine.
- ☐ Be sure to add a title.
- ☐ Example: Draw a magazine cover that would be about stars.
- ☐ Challenge: Write an article that would be in the magazine.

Cut along the dotted line.

Acrostic Poem

Objective: You should describe the topic using creative sentences.

- ☐ Clearly write the topic vertically on the entire page.
- ☐ Write a descriptive sentence beginning with each letter of the topic.
- ☐ Add pictures and color!
- ☐ Be sure to add a title.
- ☐ Example: Write what you know about science. Or describe what you have learned about the solar system.

Steps of an experiment
Chemistry- study small things
Investigate a hypothesis
Experiment with a question
New ideas in science often
Collect measureable data
Earth is full of science



owls

Quiet, nocturnal
Flying, hunting, swiveling
Large eyes, binocular eyesight

strigiformes

Cinquain Poem

Objective: You should describe the topic using descriptive words.

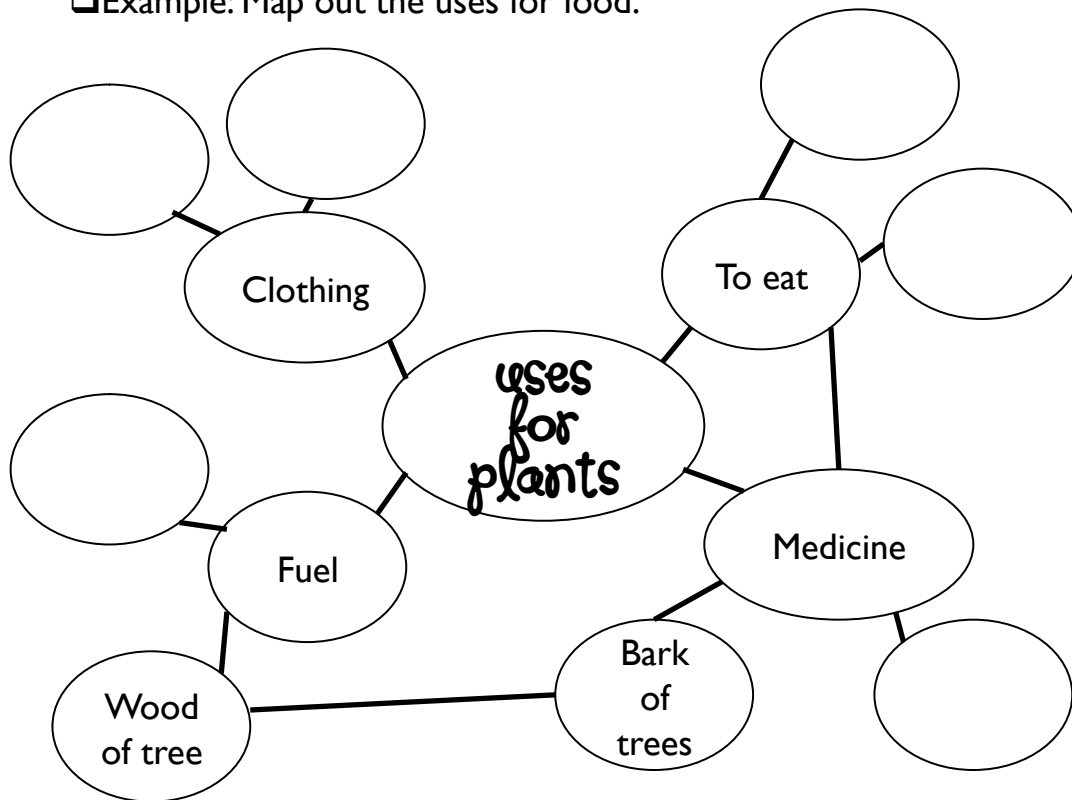
- ☐ Line 1: Topic- 1 word
- ☐ Line 2: Description- 2 words
- ☐ Line 3: -ing Actions- 3 words
- ☐ Line 4: Phrase- 4 words
- ☐ Line 5: Topic synonym- 1 word
- ☐ Add pictures and color!
- ☐ Be sure to add a title.
- ☐ Example: Describe owls.

Cut along the dotted line.

Concept Map

Objective: You should connect information that you are learning about to information you already know.

- ☐ Clearly write the topic in the middle bubble in the middle of the page.
- ☐ Brainstorm information that you know or want to know about the topic.
- ☐ Group information that is similar together.
- ☐ Add bubbles from the main topic. Then keep adding bubbles.
- ☐ Add lines between bubbles if the ideas are related.
- ☐ Include pictures and add color!
- ☐ Be sure to add a title.
- ☐ Example: Map out the uses for food.



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Story Board

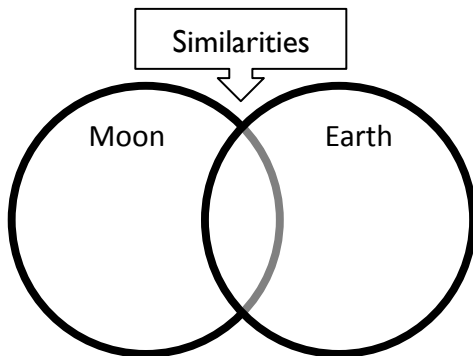
Objective: You should show a process with pictures and words.

- ☐ Draw a story board with 8 rectangles for pictures and 8 rectangles for words.
- ☐ Plan out what should go in each rectangle.
- ☐ Make sure that the pictures and words are in order and are descriptive.
- ☐ Be sure to add a title.
- ☐ Example: Show the process of secondary succession after glaciers melt.

picture 2	Description		
picture 1	Description		

Venn Diagram

Objective: You can use a Venn Diagram to compare and contrast 2 or more topics.



- ☐ Draw 2 or more circles that overlap.
- ☐ Label each circle.
- ☐ Use bullet points to list facts in each section.
- ☐ The overlapped section are similarities of both.
- ☐ Be sure to add a title.
- ☐ Example: Compare the Moon and Earth. Or add a 3rd circle and compare the Sun as well.

Cut along the dotted line.

TO THE TEACHER

Credits

"mr. and mrs.
popsicle"

font by:



Thank you for downloading this science notebooking tool! I hope that you find this useful for your interactive science notebooks. Please let me know if you have any questions about how to use this printable.

Check back often for more classroom decorations and printables!