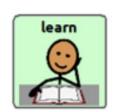


2022 Scientist Lab Book







This lab book belongs to:



Table of Contents

Scientific Method	2
TAAP Method	3
Monthly Experiments	5
Sequencing Cards	29
Questions Cards ————————————————————————————————————	41 41 43
Hypothesis CardsFor WordPower60 BasicFor WordPower42 Basic	45 45
FUI WUIUPUWEI42 BASIC	4/

Notes About the Lab Book

For best results, print this lab book double-sided (flip on the long edge when printing, if given the option).

In the monthly experiments, you will notice a few things:

- We have completed the **Observation** and **Question** steps in the scientific method each month in Experiment 1.
- Experiment 2 is all blank for you to practice those steps of the scientific method.
- Science Terms to Know are provided for each experiment. The science term is listed in bold and core words that describe that term are provided after. Using the descriptive method, you do not need to add all these new words to the vocabulary!

Sequencing Cards – these cards are provided as an extra activity. Once you complete the experiment (or before while preparing), you can sequence the steps.

Question Cards and **Hypothesis Cards** are visual prompts or sentence starters. Print these pages separately on card stock so you can reuse them throughout the year!

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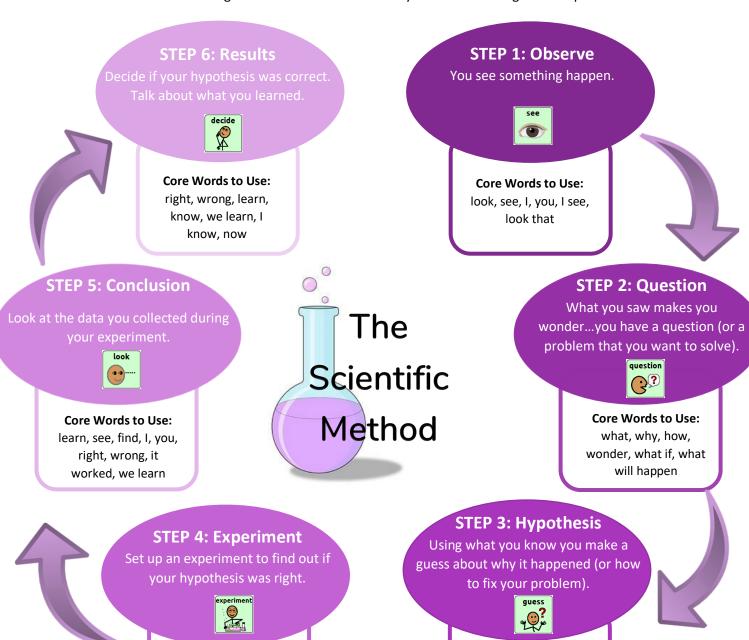




Science discovers new things every day! Scientists learn about people, bacteria, animals, space, and so much more! How we get these answers and learn these things is by using the scientific method.

The way we learn new things using the scientific method is always the same. First, we see something happen in the world, which makes us question why that happened. The next steps include guessing why that happened, experimenting, and deciding if we were right. If we were right, we learned something new! If not, we begin the scientific method again to learn the answer to our question.

As you go through the Scientist Lab Book this year, we want you to use the scientific method! Learn more about the steps of the scientific method below and get some ideas on core words you can use throughout the process.



Core Words to Use:

Try, get, put, take, do, I, you, put in, take

that, try this

Core Words to Use:

I, you, think, guess,

wonder, bet, I think, My guess, if...then...

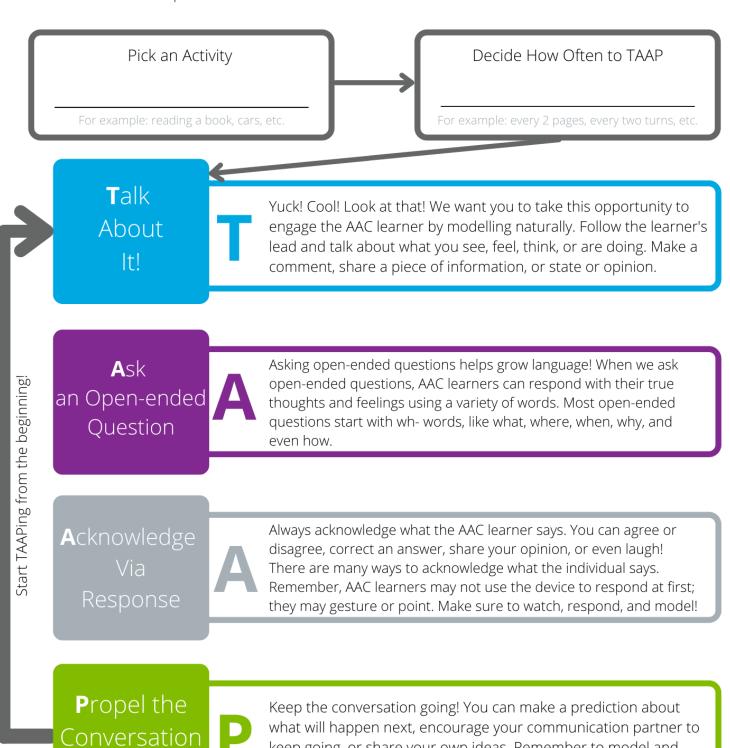
TAAP Your Way Through Science

Research tells us that as we grow, we communicate in different ways. It is important to move beyond the level of expressing wants and needs. Individuals who use AAC learn best when language is modeled to them using their AAC system. When modeling, there are many useful strategies you can employ to model and grow language!

Try using this simple acronym to learn and remember what to model on an AAC system. Using the TAAP method, you can focus on modeling language naturally while completing a fun, engaging activity with the individual using AAC.

Learn more about the steps of the TAAP method below.

or Predict



keep it natural!

keep going, or share your own ideas. Remember to model and

TAAP Your Way Through Science

You can TAAP your way through any activity! TAAPing your way through is a great way to engage the AAC learner in conversation in a natural and fun way. Using the TAAP method will help move beyond requesting and make communication during any activity meaningful!

As you go through the experiment, focus on the AAC learner. What does the individual think? Is it cool? Or Weird? Follow the individual's lead and keep TAAPing your way through the experiment!

Pick an Activ	vity	Decide How Often to TAAP
For example: reading a b	ook, cars, etc.	kample: every 2 pages, every two turns, et
T alk About It!	What to talk about? Make a comment about what you see, share, or show something, express a feeling, or state your opinion.	Core Words to Model
A sk an Open-ended Question	Open-ended questions typically start with a wh- question word and have an answer that is not yes or no.	Core Words to Model
A cknowledge Via Response	Acknowledging the AAC learner can look like a lot of different things. You may repeat what the AAC learner said or you may expand. Keep it natural.	Core Words to Model
P ropel the	We make predictions and talk about the future all the time! It is	Core Words to Model



January Lab Report: Let's Make Snow!

Experiment 1

Observation:

It snows a lot in January in some places.

Question:

Can we make something that looks and feels like snow?

Hypothesis:

Science Concepts to Know:

Freezing – very cold, cold enough

Precipitation – only when cold, snow, rain

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment













Collect and Analyze Data:



January Lab Report: Snowstorm in	a Jar Experiment 2
Observation:	
Question:	
Hypothesis:	Science Concepts to Know: Freezing – very cold, cold enough Precipitation – only when cold, snow, rain
Conduct the Experiment: Materials: Water (about 1 cup) Baby oil Glitter Alka-Seltzer White paint Blue food coloring (optional) Mason jar (or another container)	 Directions: Fill jar ¾ of the way full with baby oil. In separate bowl, mix water and a few drops of white paint. Add glitter and blue food coloring to oil as desired. Then add water and paint mixture to top off the jar. Drop one Alka-Seltzer in the jar and watch the snow storm!
Collect and Analyze Data:	
Conclusion and Results:	



February Lab Report: Make It Melt!

Experiment 1

Observation:

In the winter months, ice is on the ground and it is slippery.

Question:

How can we be safe and make ice melt?

Hypothesis:

Science Concepts to Know:

Freezing – very cold, cold enough, ice

Melt – get warm, turn water

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment













Collect and Analyze Data:



Observation:	
Soci vation.	
Question:	
Hypothesis:	Science Concepts to Know:
	Freezing – very cold, cold enough, ice
	Melt – get warm, turn water
Conduct the Experiment: Materials: 1 quart size plastic bag 3-4 c of ice	Directions: 1. In the quart size bag, add cream, sugar, and vanilla extract. Se the bag and shake well to mix all ingredients. 2. In the gallon size plastic bag, add salt and ice. Seal the bag and
 Oven mitts 1 c heavy cream 	shake to combine. 3. Place the quart size bag in the gallon size bag and reseal the gallon size bag. Put on oven mitts (to protect from the cold) a shake and turn the gallon size bag containing the ice, salt, and
½ tsp vanilla extract	the quart size bag.
 1 gallon size plastic bag Ven mitts 1 c heavy cream 2 tbsp sugar 	shake to combine. 3. Place the quart size bag in the gallon size bag and reseal the gallon size bag. Put on oven mitts (to protect from the colorshake and turn the gallon size bag containing the ice, salt,
Conclusion and Results:	



March Lab Report: Magnificent Magical Milk!

Experiment 1

Observation:	
	Food coloring changes the color of water and other liquids.

Question:

What happens to food coloring in different liquids?

Hypothesis:

Science Concepts to Know:

Liquid – wet, like something to drink

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.















Collect and Anal	yze Data:



March Lab Report: Magic I	Melting Skittles Experiment 2
Observation:	
Question:	
Hypothesis:	Science Concepts to Know: Liquid – wet, like something to drink
Conduct the Experiment: Materials: Bag of Skittles Plate or bowl (white works best to see the colors) Warm water	 Directions: Place bowl or plate on a level surface (somewhere you will not have to move it to watch once the warm water is poured). Place Skittles all around the edge of the plate or bowl. Create a fun pattern, if you like. Once Skittles are on the plate or bowl, slowly pour in the warm water to cover the Skittles about halfway (do not pour in too much water. You do not want the Skittles to float or move). Watch the colors melt to make a rainbow.
Collect and Analyze Data: Conclusion and Results:	
Conclusion and Results.	



April Lab Report: Invisible Forces!

Experiment 1

Observation:

Sometimes things move without being touched by a person or other object.

Question:

What "invisible" forces are there around us?

Hypothesis:

Science Concepts to Know:

Magnetic – make move, pull, together

Force – make move, make do

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment









to too



Collect and Analyze Data:



April Lab Report: Ballo	oon Rockets	Experiment 2
Observation:		
Question:		
Hypothesis:	Science Concepts to Force – make move Propulsion – make	e, make do
Conduct the Experiment: Materials:	Directions: 1. Decide where you want your rocket to from one wall to another, or between string slightly longer. 2. Tape one side of the string to the wall the drinking straw and tape the other 3. Put 2 pieces of tape on the straw. Blow but hold closed with your fingers. Attalet go and watch the balloon rocket!	two chairs, etc. Then cut a piece of //chair. Next, thread the string through end of the string down. w up the balloon; do not tie the end,
Collect and Analyze Data: Conclusion and Results:		



Mav L	.ab Re	port:	Matter	is	Even	ywhere	ļ
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Experiment 1

Observation:

We can't see air, but it makes balloons get bigger.

Question:

Is air made of matter?

Hypothesis:

Science Concepts to Know:

Matter - made of, little things,

Particles – little things, can't see

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment















Collect and Analyze Data:



May Lab Report: Mysterious	Oobleck Experiment 2
Observation:	
Question:	
Hypothesis:	Science Concepts to Know: Matter – made of, little things, Liquid – soft, wet, changes Solid – hard, not change
Conduct the Experiment: Materials:	Directions: 1. In a bowl or container, mix the cornstarch and water. 2. If desired, add food coloring or Kool-Aid to make oobleck a color. 3. Have fun playing with oobleck! Hit it, ball it up, stir it. It's a liquid and a solid!
Collect and Analyze Data:	
Conclusion and Results:	



June Lab Report: Energy is All Around!

Experiment 1

Observation:

Some things move without being touched. Energy is all around!

Question:

How do things move?

Hypothesis:

Science Concepts to Know:

Energy – make move, move,

Transfer – give to, go to

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment













Collect and Analyze Data:



June Lab Report: Solar C	ven S'mores Experiment 2
Observation:	
Question:	
Hypothesis:	Science Concepts to Know: Solar – from sun, sun Energy – make do, make go,
Conduct the Experiment: Materials: Box Plastic wrap Tape Skewer (or something to keep box open). Aluminum foil S'mores supplies- graham crackers, marshmallows, chocolate Collect and Analyze Data:	 Directions: Cut a flap in the box that you can lift up (like a pizza box top). Bend flap up and cover in aluminum foil, secure with tape. If desired put one piece of foil inside the box, on the bottom. Prop the box flap open with the skewer; secure with tape if needed. Place s'mores inside box. Take plastic wrap and close box. Tape to the flap and box to secure. Place box in sunny spot and let your s'mores cook! Enjoy when chocolate and marshmallow have melted.
Conclusion and Results:	



July Lab Report: Explore	the Ocean	Experiment 1	
Observation:			
The c	ocean is blue and there are lots	s of things in it!	
Question:			
ŀ	How do so many things live in t	the ocean?	
Hypothesis:	Scienc	ce Concepts to Know:	
	Layers	Layers – different things, on top each other	
	Buoya	ant – on top, float	
Conduct the Experiment:	Model These Core	Words During the Experiment	
Refer to Calendar			
for materials and	really	see will	
experiment directions.	**************************************		
Collect and Analyze Data:			
Conclusion and Results:			



July Lab Report: The Water	er Cycle Experiment 2
Observation:	
Question:	
Hypothesis:	Science Concepts to Know: Evaporate – go away, get dry Precipitation – rain, get wet, come down
Conduct the Experiment: Materials: Gallon size plastic bag Tape Water (about 2 cups – doesn't need to be exact) Blue food coloring (if desired) Permanent markers	 Using permanent markers, draw the water cycle onto the plastic bag. Get free water cycle chart here. Heat water to just before boiling (do not boil the water). Add a few drops of food coloring if desired to make the water blue). Pour water into gallon size plastic bag and seal. Tape bag to window or glass door. Observe the water cycle. **If you tape the bag to a window/door that gets direct sunlight, the heat from the sun will continue the water cycle in the bag.
Collect and Analyze Data:	
Conclusion and Results:	



Observation:	
	There are many pretty rocks!
Question:	
How do	rocks form? And are they made of different things?
Hypothesis:	Science Concepts to Know: Evaporate – go away, get dry Dissolve – mix in, all in, go in Formation – grow, make shape
Conduct the Experiment: Refer to Calendar for materials and experiment directions.	Model These Core Words During the Experiment I did vou really really
Collect and Analyze Data:	



August Lab Report: Stal	actite in a Jar	Experiment 2
Observation:		
Question:		
Hypothesis:	Science Concepts of Evaporate – go aw Dissolve – mix in, Formation – grow	vay, get dry all in, go in
Conduct the Experiment: Materials: Two glass jars (or cups) Water Baking soda String 2 paper clips Shallow dish/plate	soda until it no longer dissolves. 2. Cut a piece of string and attach one 3. Place jars a few inches apart and po	ut the dish/plate between the two jars. n jar. Make sure to let the string droop a dish/plate.
Collect and Analyze Data: Conclusion and Results:		



September Lab Report: Make Your Own Fossils!

Experiment 1

Observation:

We find dinosaur bones and other fossils in the ground.

Question:

How do fossils form for us to find them years later?

Hypothesis:

Science Concepts to Know:

Petrified – get hard, long time

Impression – leave shape

Dissolve – go away, slow, over time, long time

Conduct the Experiment:

Refer to Calendar for materials and experiment directions.

Model These Core Words During the Experiment













Collect and Analyze Data:



September Lab Repo	ort: Disappearing Egg Shell	Experiment 2
Observation:		
Question:		
Hypothesis:		Know: slow, over time, long time y, keep here, still here, long
Conduct the Experiment: Materials: Glass jar 1 egg White vinegar	Directions: 1. Place a fresh, clean egg in the jar. 2. Fill the jar with white vinegar, enough some space at the top of the jar (do not). 3. Put lid on the jar and leave loose (do not). 4. Watch the eggshell disappear. After a contouch it.	ot fill the jar up with vinegar). ot tightly close the lid).
Collect and Analyze Data: Conclusion and Results:	·	
Conclusion and Nesults.		



October Lab Report: The Colors of Fall

Conclusion and Results:

Experiment 1

Observation:			
The leaves change color in fall.			
Question:	Why do leaves change color?		
Hypothesis:	Science Concepts to Know: Photosynthesis – get food, grow Chlorophyll – makes color, colors it		
Conduct the Experiment: Refer to Calendar for materials and experiment directions.	Model These Core Words During the Experiment cool what happen -ed -ed probably believe		
Collect and Analyze Data:			



October Lab Report: Color	Changing Celery	Experiment 2
Observation:		
Question:		
Hypothesis:	Science Concepts to Know: Photosynthesis – get food, gr Chlorophyll – makes color, co	
Conduct the Experiment: Materials: Fresh celery stalks with leaves (or other leafy vegetable like kale) Glass/jar Water Food coloring	Directions: 1. Fill glass with water. If desired, you can have multicolors. 2. Add a few drops of food coloring and stir. 3. Cut approximately a quarter inch off the bottom of the stalks in the glass/jar. 5. Watch the celery change color over the next few desired.	f each stalk of celery.
Conclusion and Results:		



November Lab Report: It Starts with a Seed!

Experiment 1

Observation:	
	Plants come back year after year.
Question:	
	How do plants grow?
Hypothesis:	Science Concepts to Know: Germination – start grow, first grow Seedling – little plant, out dirt
Conduct the Experiment: Refer to Calendar for materials and experiment directions.	Model These Core Words During the Experiment it is great then het place then
Collect and Analyze Data:	
Conclusion and Results:	



November Lab Repo	rt: Growing Carrot Tops	Experiment 2
Observation:		
Question:		
Hypothesis:	Science Concepts to Germination – start Seedling – little plan	grow, first grow
Conduct the Experiment: Materials: Carrot Shallow dish water	Directions: 1. Cut off the top one inch of the carr 2. Place carrot in a shallow dish with 3. Pour water in shallow dish (not too each day and add water as needed	the stem side up. o much water!). Monitor water
Collect and Analyze Data:		
Conclusion and Results:		



December Lab Report: Don't Spread It!

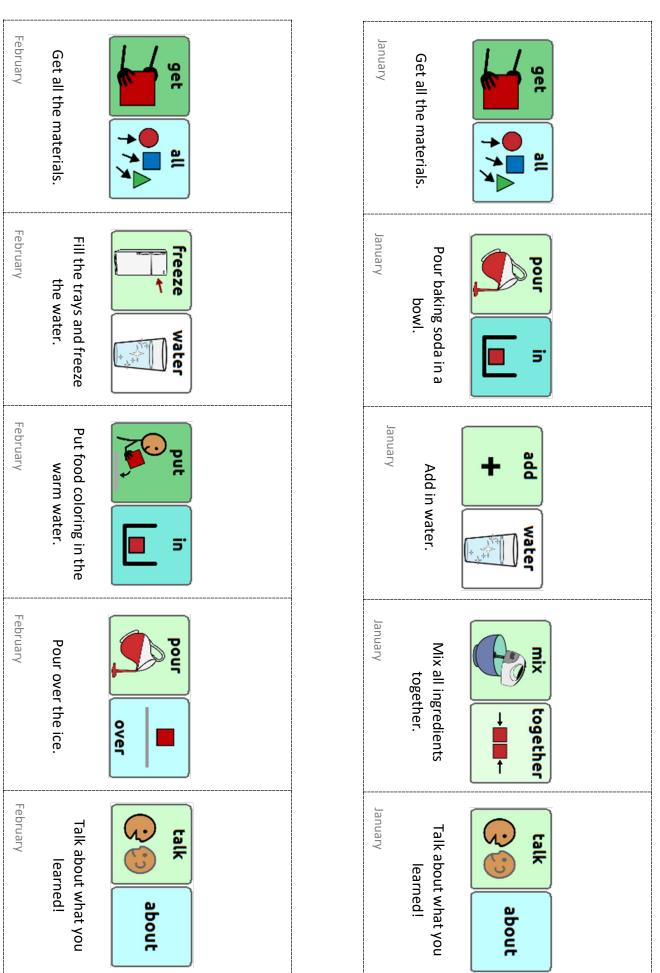
Experiment 1

People get sick in the winter.		
Question:	How do people get sick?	
Hypothesis:	Science Concepts to Know: Germs/Bacteria/Virus – make sick, some bad, can't see Transmit – give others, give people	
Conduct the Experiment: Refer to Calendar for materials and experiment directions.	Model These Core Words During The Experiment Vikes! Oh no What Oh my Keep Learn Oh my Oh my	
Collect and Analyze Data:		
Conclusion and Results:		



Observation:		
Question:		
Hypothesis:	can't see	s to Know: /Virus – make sick, some bad, others, give people
Conduct the Experiment: Materials: 3-4 slices of bread 3-4 plastic sandwich bags Marker to label bags Tongs (plastic gloves)	 Use tongs (or put on plastic gloves) and place one slice of br "control". Remove gloves, if wearing. Get hands dirty (rub in dirty, tour hands dirty!), then wipe hands on front and back of the slide and seal it. Label this bag "dirty". Next, wash your hands with water only for 20 seconds. Dry l Place the bread in the bag and seal it. Label this bag "Water Last, wash your hands with soap and water for 20 seconds. I bread. Place the bread in the bag and seal it. Label this bag "Seconds." Observe what happens over the next week. 	ch different surfaces, have fun getting your e of bread. Place the bread in the plastic ban hands, then rub hands on the slide of bread Only". Dry your hands and rub on both sides of the
collect and Analyze Dat	a:	

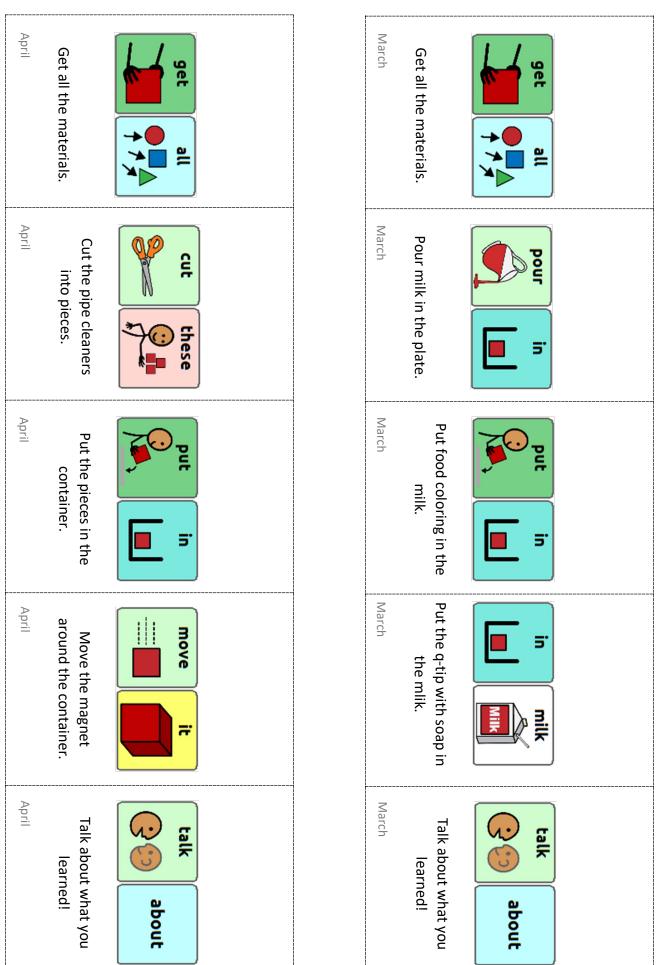






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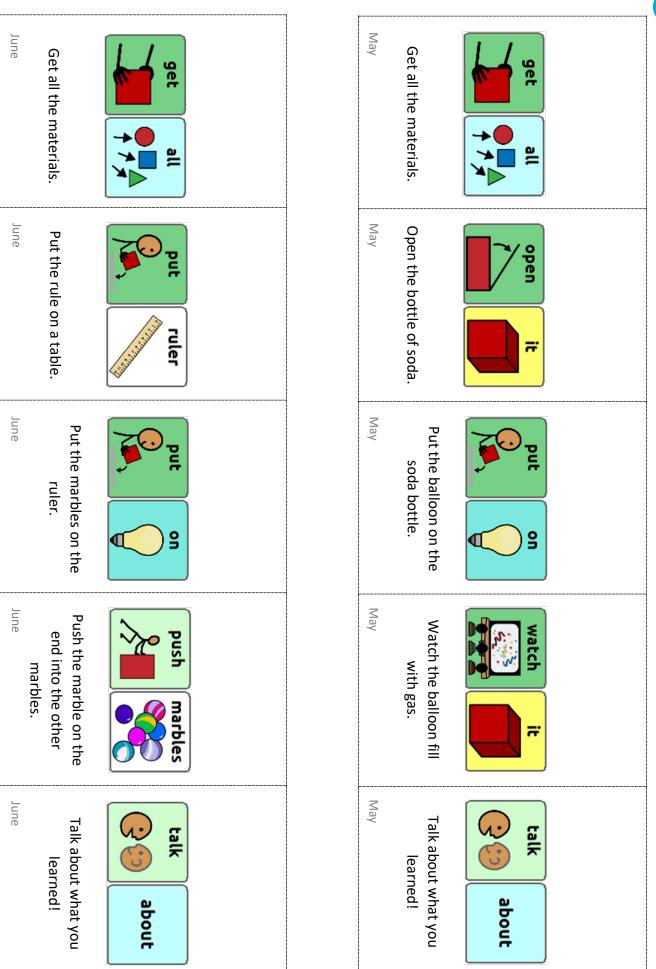






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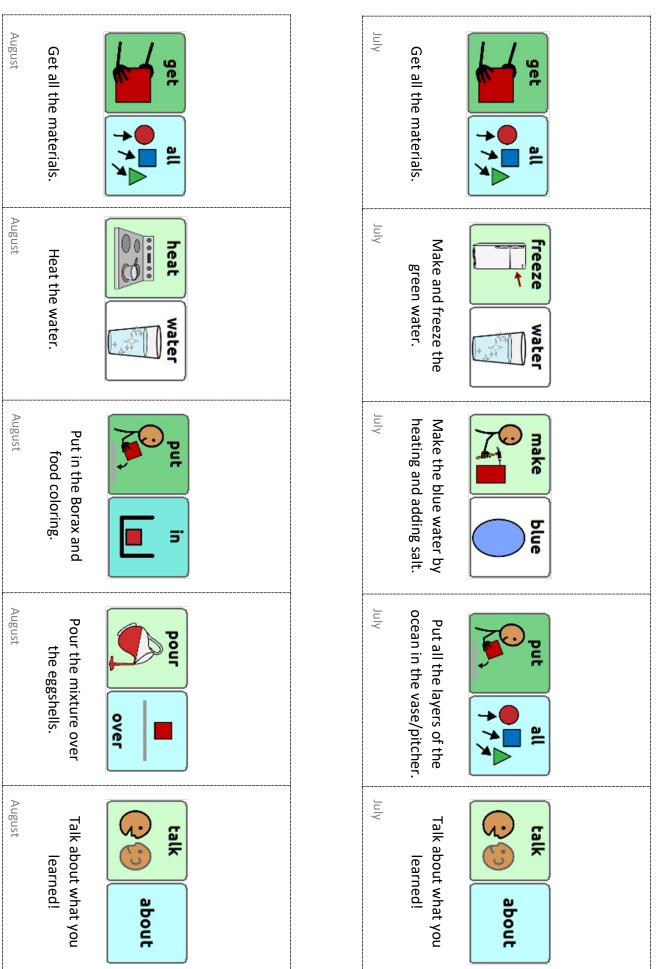






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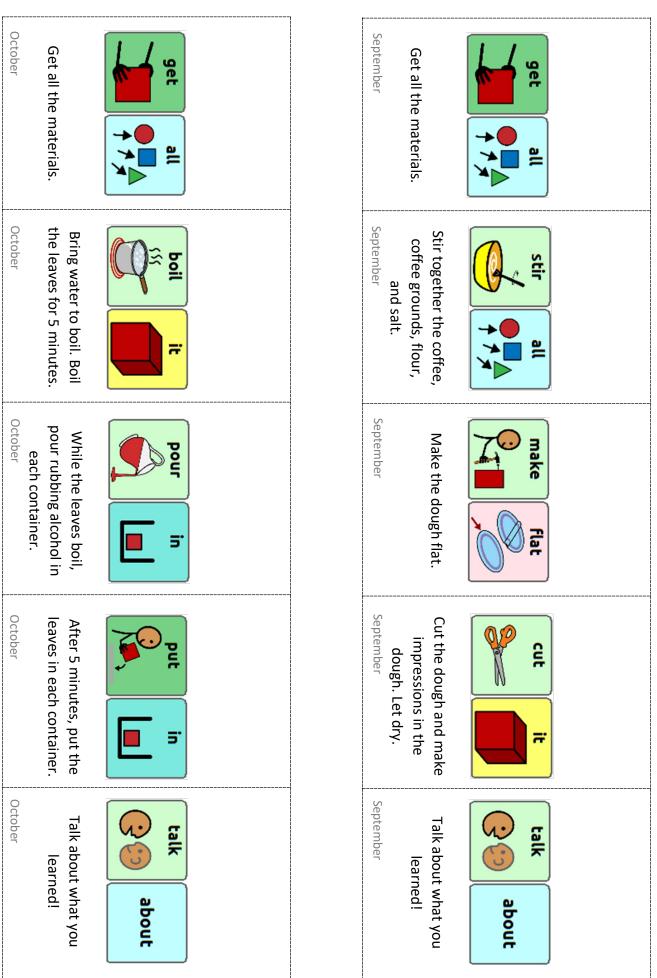






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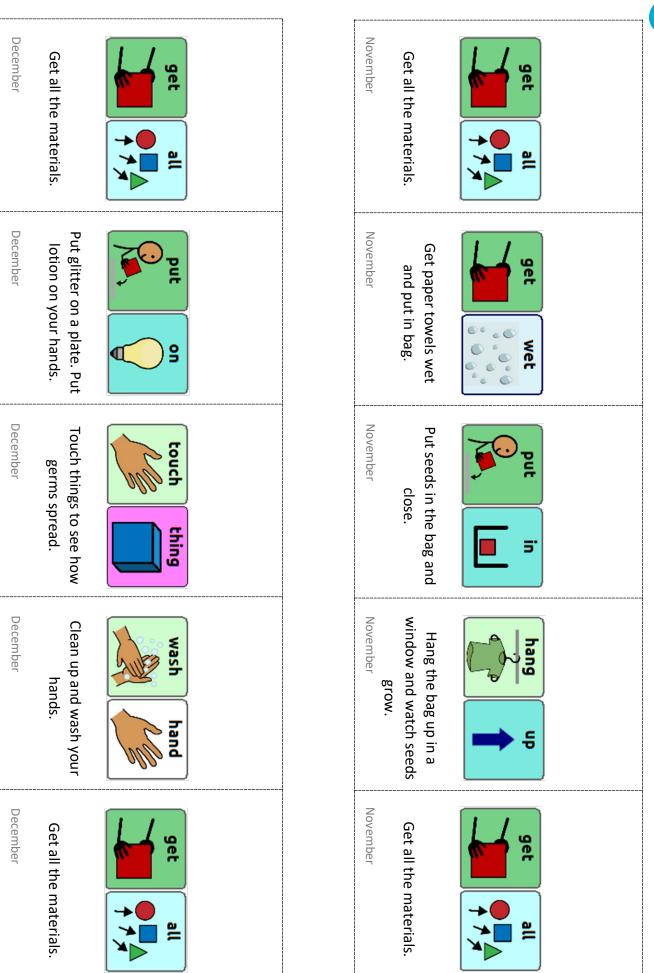






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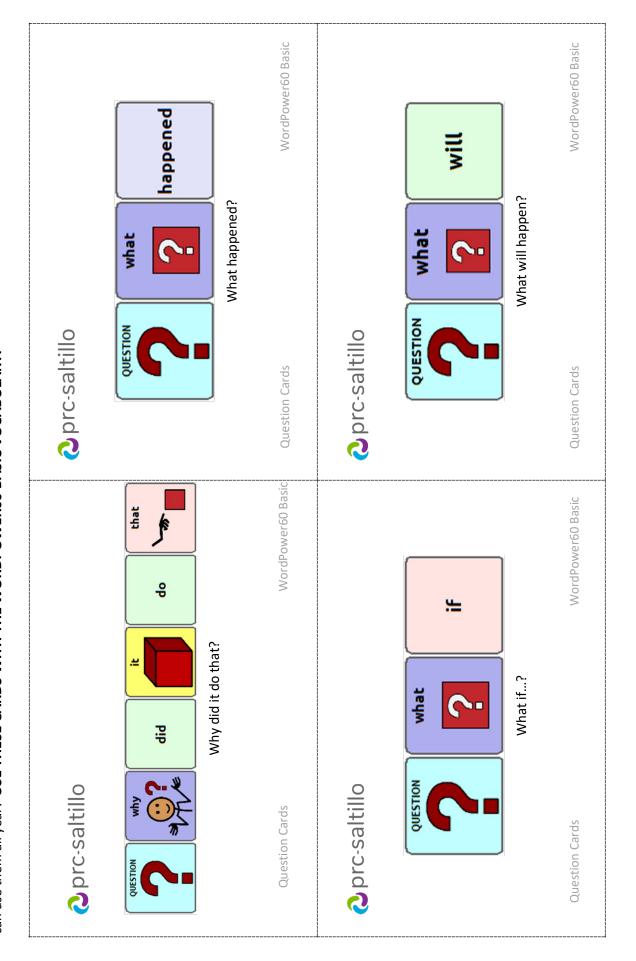




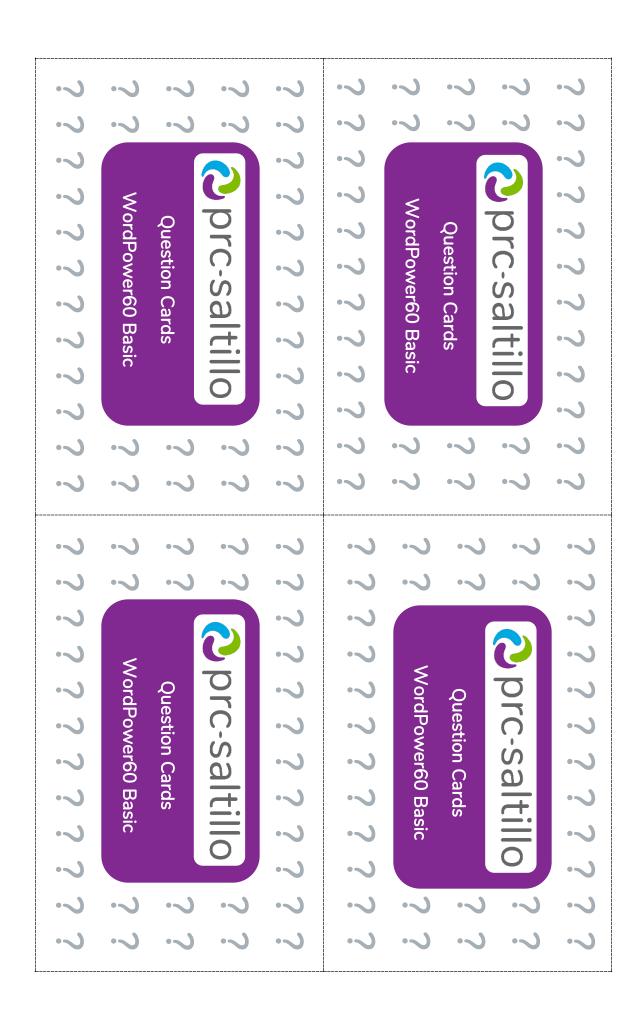
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These Question Cards can be used in several ways. The cards can be used as a visual cue during your experiments. You can use them as a reminder to you (or the communication partner) of the buttons to push to model a question during the experiment. You can use them to show the AAC learner what buttons to push. Print these cards out to use through all the experiments in the 2022 calendar and Lab Book! Print them on card stock and laminate, if you like, so you can use them all year! USE THESE CARDS WITH THE WORDPOWER60 BASIC VOCABULARY.

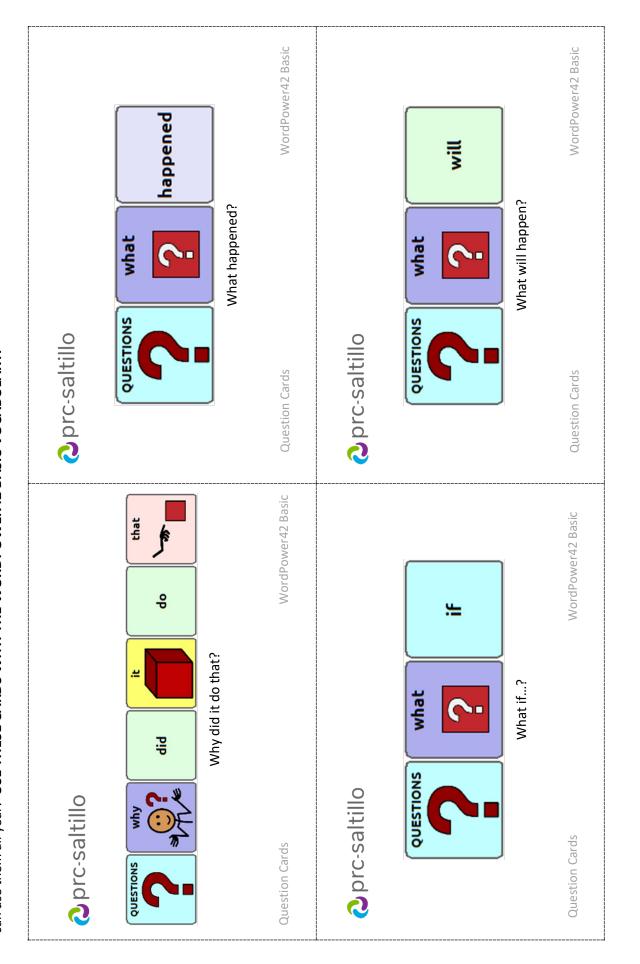




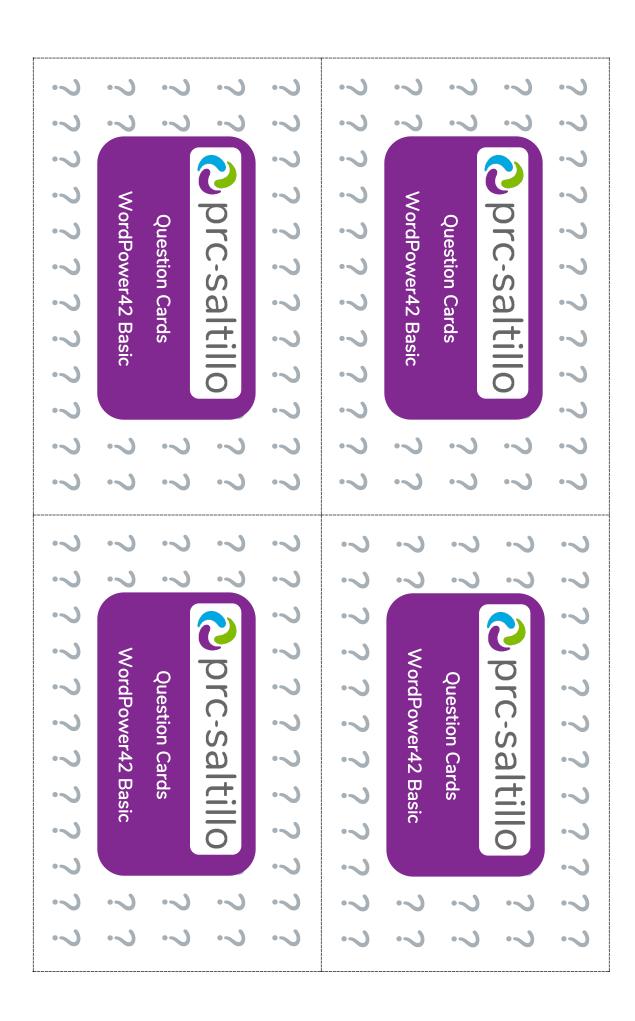




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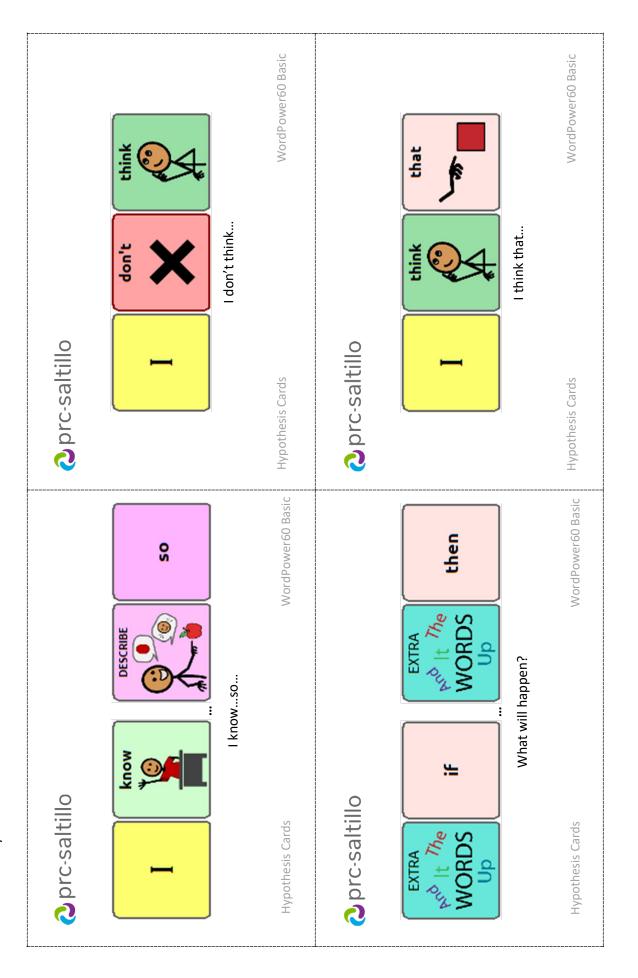




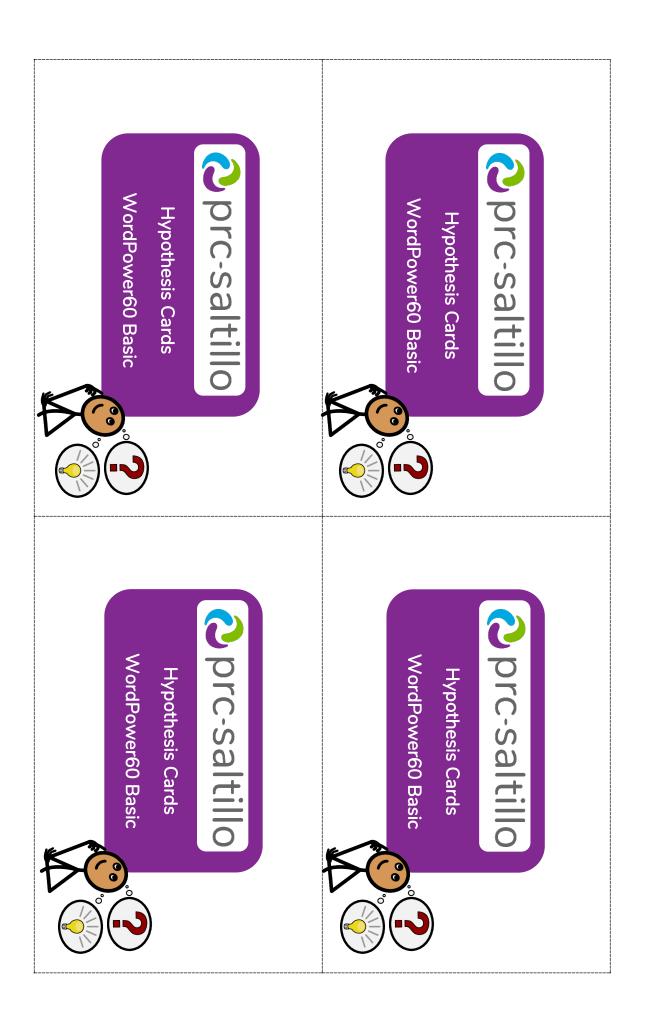


Use these Hypothesis Cards as reminders and sentence starters. When you are making your hypothesis, use these cards and phrases!

Print these cards out to use through all the experiments in the 2022 calendar and Lab Book! Print them on card stock and laminate, if you like, so you can use them all year! USE THESE CARDS WITH THE WORDPOWER60 BASIC VOCABULARY.









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