

INCLUDES GOOGLE SLIDES

SCIENTIFIC METHOD

For Special Ed

challenge. He is my tester!!

This unit was created with this guy in mind. He has autism and an intellectual disability. He is a nonreader, and loves the sound of piano keys. With some support he is able to do this unit, and enjoys the

Color versio

Scientific Method Unit

By Christa Joy Special Needs for Special Kids



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Also included in this resource as separate files:

- Lesson plans
- Links and directions to digital activities ٠
- PowerPoint (this is the book in the lesson plan)
- Voice recorded PowerPoint ٠
- Activities in black and white

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This unit contains 12 days of material that is in both printable and digital formats. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

It comes in 2 separate files. One in color and one in black and white.

Scientific Method Lesson Plan

Preparation

- Print out a vocabulary board for each student to use throughout u Laminate or place in page protector
- Book
 - Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and also one for the teacher games

Day 3

Activity

Read or listen

to a recording

of the book

(10 minutes)

Vocabulary

cards | Spy

(10 minutes)

Sequencing

(5 minutes)

Activity review

Putting Steps in

order Activity

(10 minutes)

(10 minutes)

Sharing

Game

Preassessment (do day 1 before starting lesson)

- Choose the form of the assessment
- Give the assessment to assess what
- I cannot emphasize enough how in growth, this preassessment is so im

Teaching Tips

- 1. Color Coding: this is a really easy activity. Outline or color in an em the corresponding picture symbols task.
 - a. For more info, read more h https://specialneedsforspecia differentiation/
 - b. I also have a blog post on d https://specialneedsforspecia 3-ways-easily-and-effectively
- 2. Make you own copies of the activi yesterday. For that reason:
 - a. I often complete the activity that I could use year after ye
 - b. My copies were also helpful more support or as a way fo work.



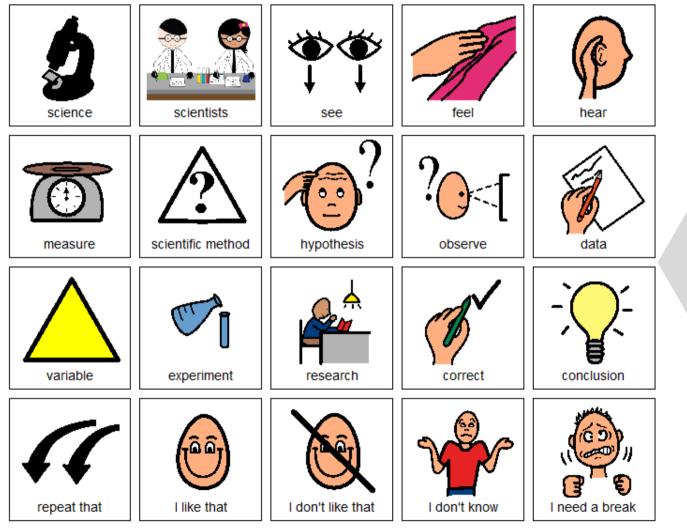
Quick Look

ighout unit ision	Day Activity Book Vocab care activity Circle map Book Vocab care activity 2 Putting the in order	ds 8	Activity • Book • Experiment #2 • Book • Vocab cards activity • Close worksheet
teacher to use in 1 Spy	 Book Vocab care activity 	ds 10	 Book Close worksher
 Notes Read through the story, asking lots of questions Continue to make connections betwee book and vocabulary board I play this game see description on of Today, try to give clues about the construction of the student needs to find Read definition Show real photo that relates from book Describe the picture Discuss relevant points on the card 	 Vocabulary board Vocabulary cards (student set and teacher set) Vocabulary cards (student set and teacher set) 	11	Boo' Clr v
 You can also play this game i manner having them find the on their vocabulary board Review the sequencing activity com yesterday Complete the second sequencing activity 	e symbol pleted completed yesterday tivity • Sequencing		
 using the level that best fits your stu Use color coding as needed Each student shares their finished sea activity with the group using the communication method of their choice 	Scissors Glue quencing Completed activity	n	

- how that day's lesson should run

The lesson plans contain:

- Overall tips for teaching students with significant needs
- A quick look at what you will
 - do each day
- Detailed instructions on



Tips on how to use in the unit!!

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This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

These tests, or experiments, are carefully set up and controlled so another scientist can repeat it.



The first step any scientist does is come up with a good question. The question usually comes from an observation or a problem that needs to be solved.

There is a 65 page book with this unit using simple text and photos.

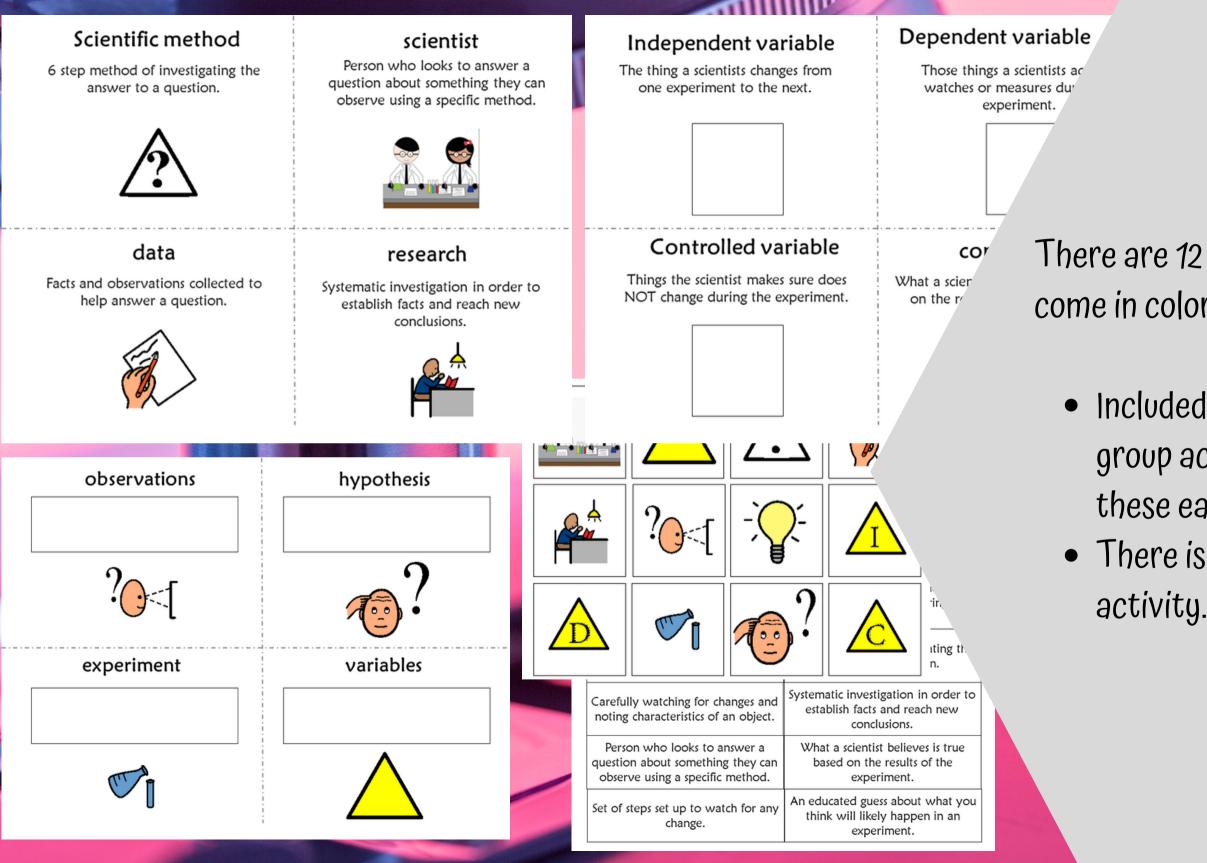
©Christa Joy, SNSK



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It comes in a PowerPoint (so you don't have to print it out.) and an mp4 file.



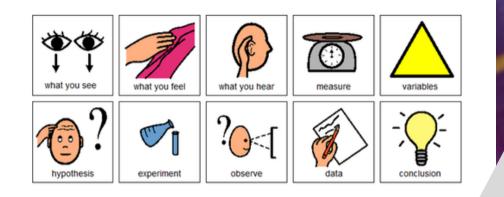
There are 12 vocabulary cards that come in color and black and white.

• Included are suggestions for group activities to do with these each day. • There is also a cut-and-paste

Errorless version

4

Cut apart pictures and place in circle map about the scientific method.





Cut apart pictures and place in circle map ONLY IF they relate to the scientific method.

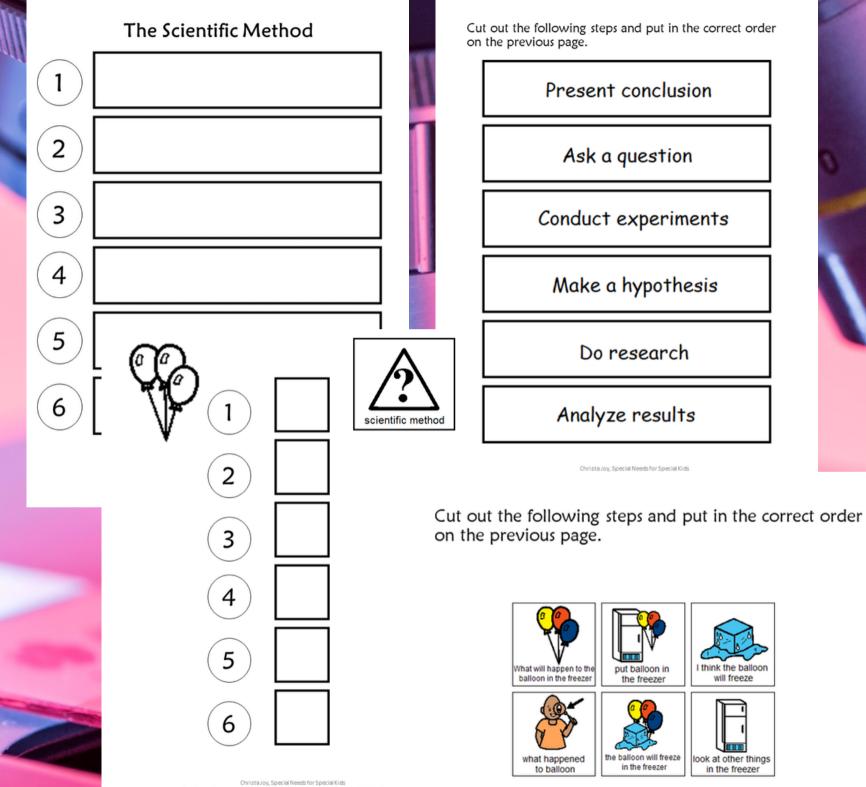


main points from the book.

Circle maps are a great way for There are 2 versions:

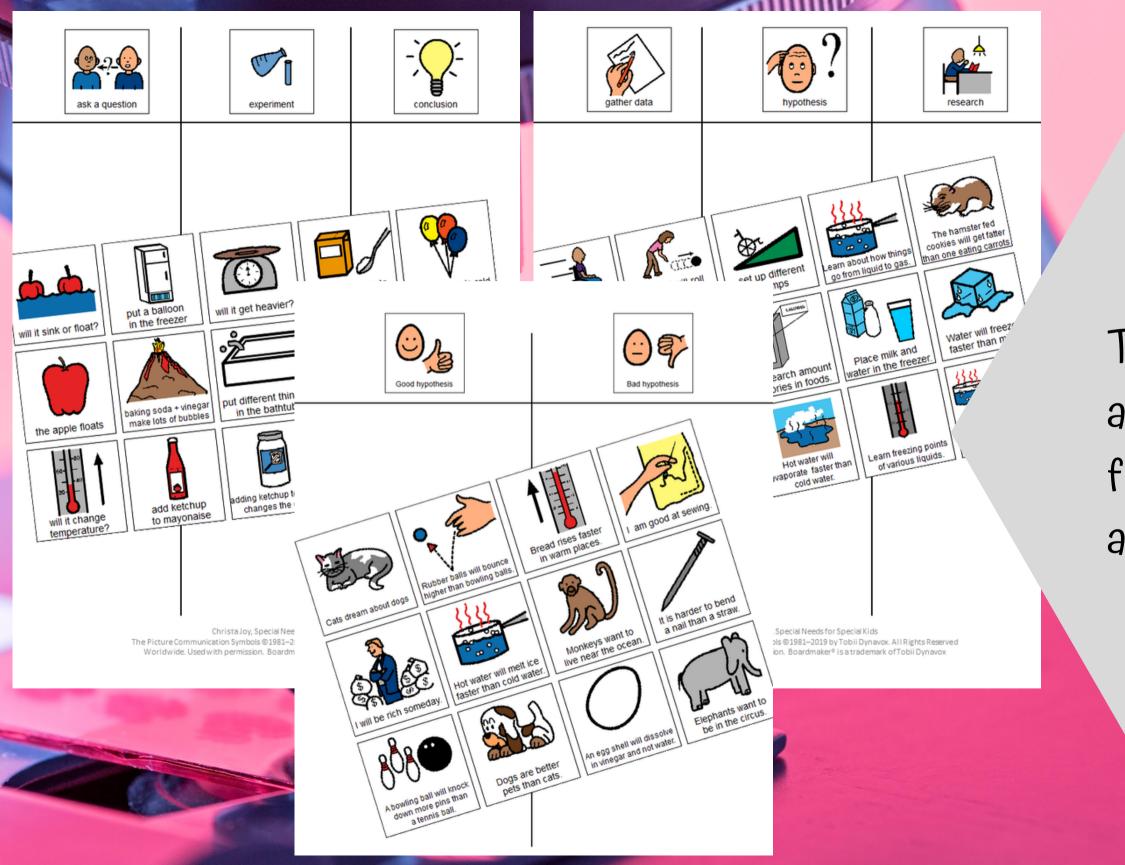
- One is errorless
- One has wrong answers mixed in students will have to set aside.

- There is a circle map that reviews the
- students to see the concept at a glance.

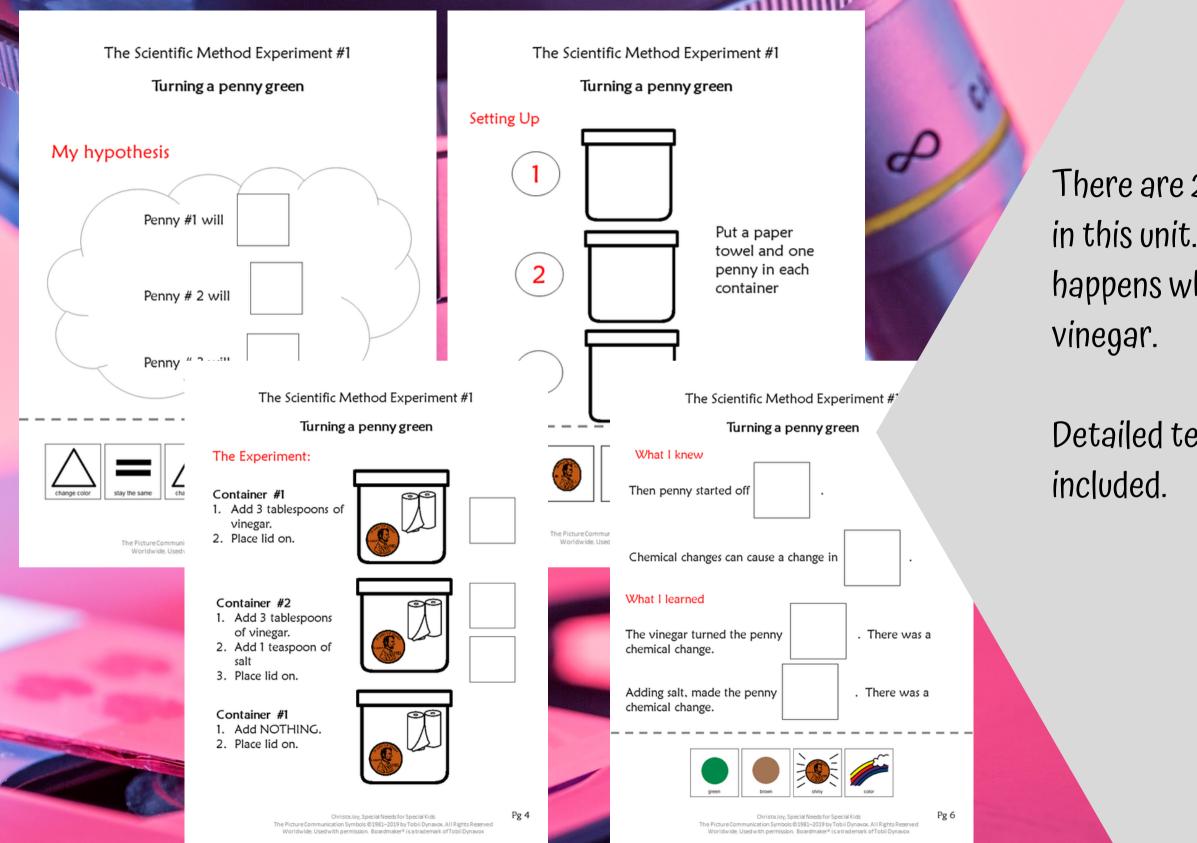


Students will practice putting the steps of the scientific method in order using words on pictures. There is a second set using steps from an actual experiment in the unit.

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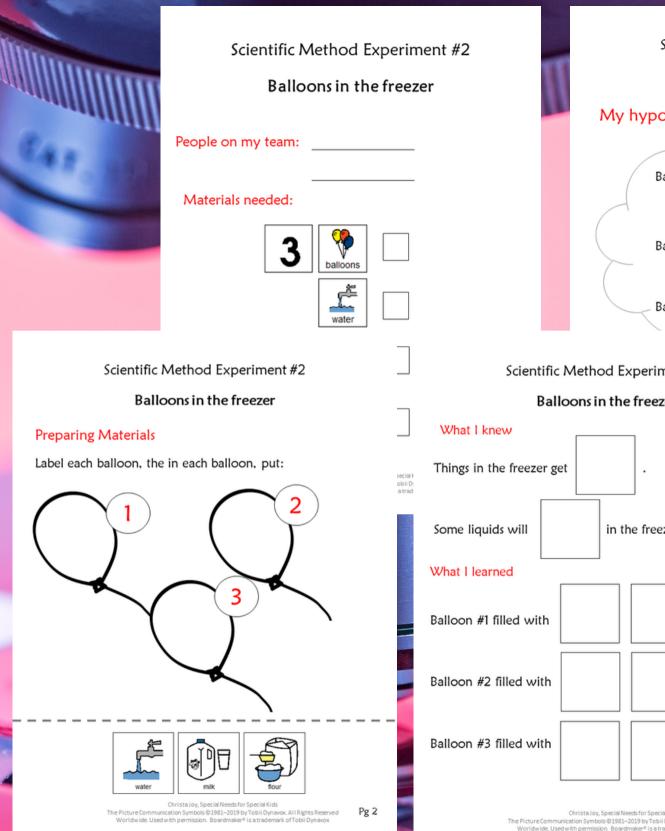


There are 3 sorting activities. Suggestions for differentiation and answer key are included.



There are 2 experiments included in this unit. The first one what happens when a penny is placed in

Detailed teacher instructions are



Balloons in the freezer My hypothesis Balloon #1 will Balloon # 2 will Balloon # 3 will Scientific Method Experiment #2 **Balloons in the freezer** stay the sa 123 third r Special Kids Tobii Dynavox. All Rights Reserve s a trademark of Tobii Dynavo in the freezer. What I knew ↓ <mark>|</mark> What I learned _____ 90 3

Scientific Method Experiment #2

substances.

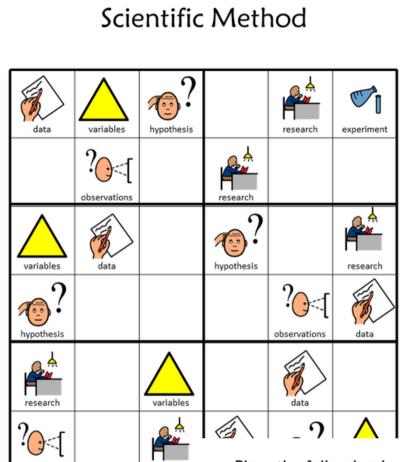
included.

requires heat.

The second one looks at what happens when you put a balloon in the freezer with different

Detailed teacher instructions are

Neither of these experiments

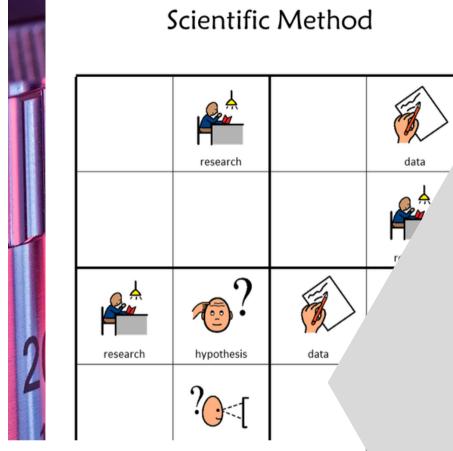


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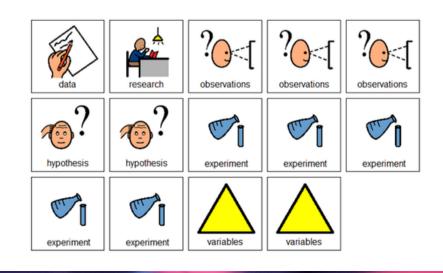
research



observation



Place the following images in the empty squares on the previous page, completing the sudoku puzzle.

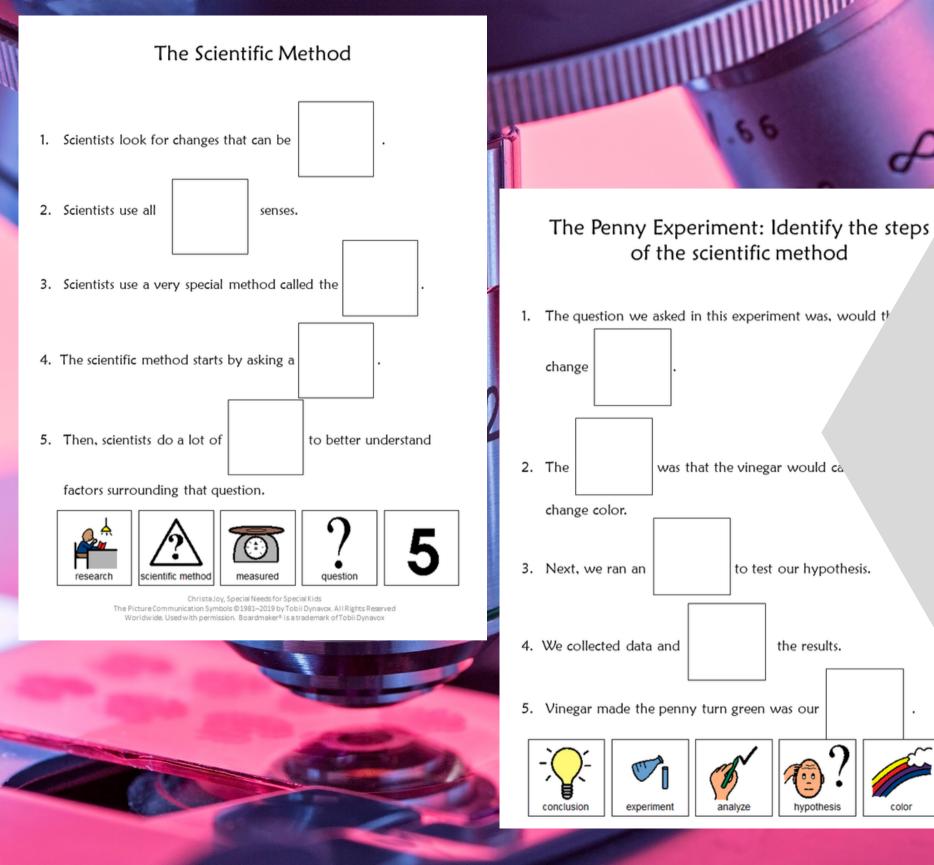


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to work with the new vocabulary!!

There are 2 versions plus answer keys.

There is a Sudoku puzzle in this unit as well. This is a great way



Close worksheets are a great informal assessment. This unit has 10 questions that review facts from the book and 5 questions reviewing each experiment.

Answer key included.

color

Version 1

A. Question

B. Problem C. Song

3. It is important that we study things that can be:

4. After doing some research, we can come up with an educated guess about what will happen called a:

5. After we have a hypothesis, we run these to test it:

6. We want to make sure how many variables change at one

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A. 10

B. 6

C. 2

A. Colored

B. Dreamy C. Measured

A. Experiment B. Hypothesis C. story

A. Experiments B. Races C. Video games

time? A. 6 B. 1 C. 4

1. The scientific method is a very special way of answering a:





2

 \bigcirc

2. There are how many steps to the scientific method?



3. It is important that we study things that can be:



4. After doing some research, we can come up with an educated guess about what will happen called a:



5. After we have a hypothesis, we run the



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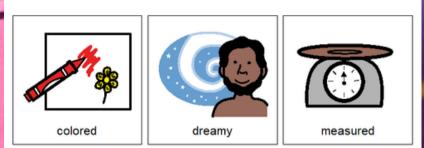


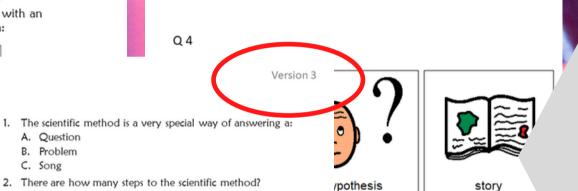
Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Version 2

đ







oy, Special Needs for Special Kids nbols @1981-2019 by Tobii Dynavox. All Rights Reserved ission. Boardmaker® is a trademark of Tobii Dynavox

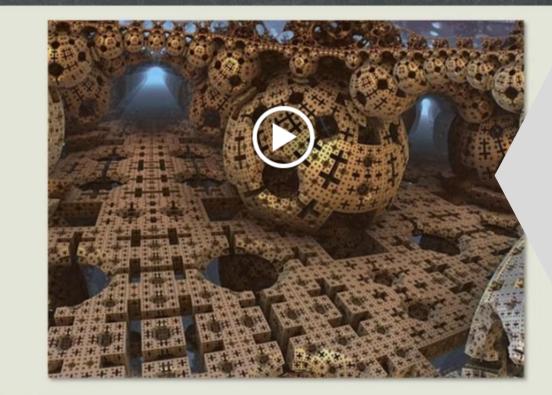
FINALLY the assessment!! There are 3 versions.

- 10 questions with 3 picture choices for each question
- cut out the answer choices
 - and glue them on index cards
- traditional multiple choice

Answer key included.

In this step, we are looking at all the data and observations we wrote down during our experiment. We start to look for patterns or things that seem the same.

Watch the movie on the Scientific Method

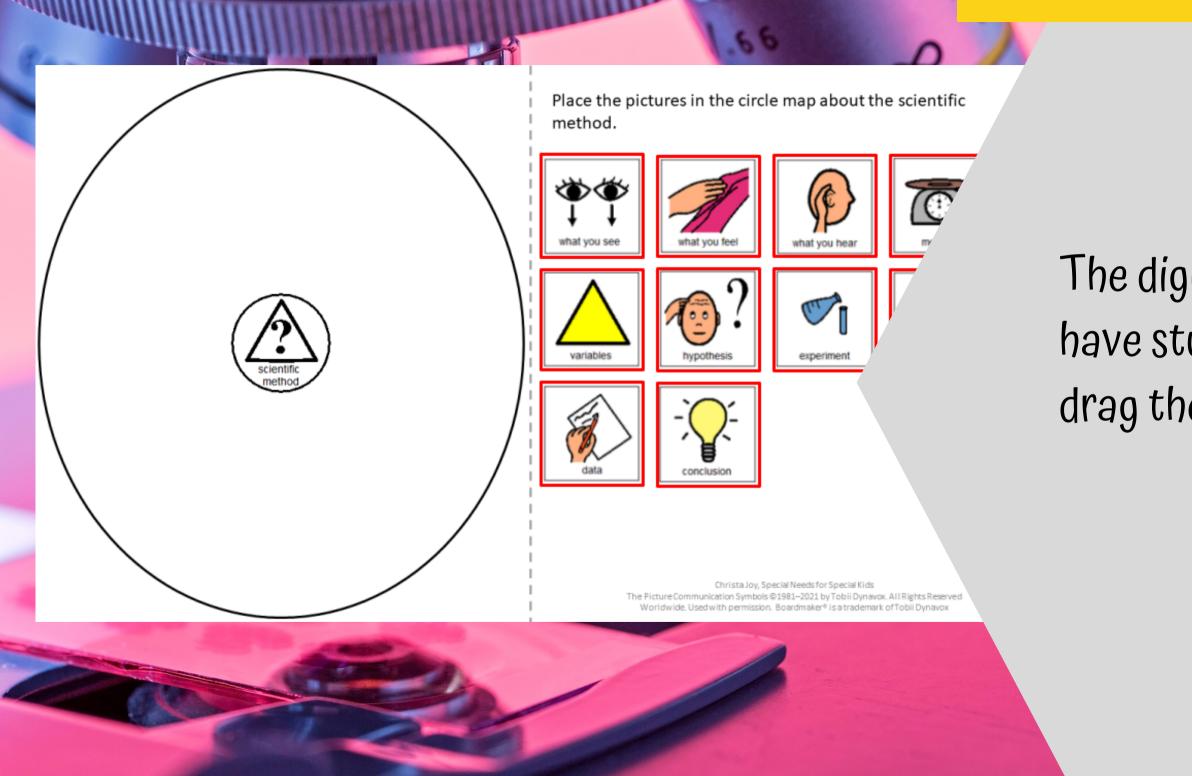


to read aloud.

Christa Joy, Special Needs for Special Kids



This unit also has digital activities. There is a movie version of the books students can listen





The digital activities have students click and drag their answers.

perfect for all learning levels



2

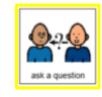
3

5

6

Put the steps of the scientific method in order.











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There are 2 sets of slides. One set has color-coding for more support.

The Scientific Method Experiment #1

Turning a penny green

Testing my hypothesis:

	Prediction of color Change	Result of Color Change (wait 3+ hours)	
Container #1			green
Container #2			S.
Container #3		The Scientific Me	thod Experiment #1

My hypothesis

Fill in the chart.

Turning a penny green

Penny #1 will

Penny # 2 will

Penny # 3 will

• What did you predict would happen to each penny?

stay brown

• What actually happened to each penny?





Choose from the pictures below to co hypothesis.

change color	change color	change cc
--------------	--------------	-----------

=	=	
stay the same	stay the same	stay the same

format.





The 2 experiments also come in a digital

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- 12 days of lesson plans
- Scientific method activities in color
- Scientific method activities in black and white
- Voice-recorded PowerPoint show
- The Scientific Method book (PowerPoint) to use with activities
- Links and directions to digital activities