ACIDS & BASES

INCLUDES GOOGLE SLIDES

.00

For Special Ed



- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support middle/high school



Acids and Bases Unit

By Christa Joy Special Needs for Special Kids



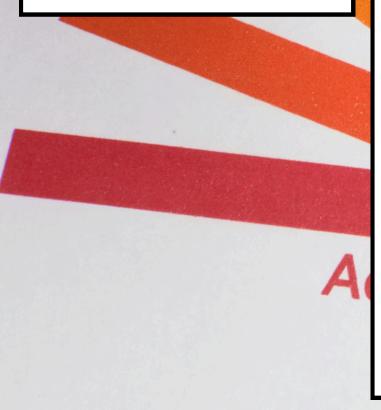


Table of Contents

Pages	Activity				
4-5	Vocabulary board				
6-7	Who am I cards				
8-22	Bingo cards				
23-25	Vocabulary cards				
26-32	Vocabulary cut and paste				
33-39	Circle maps				
40-43	Sorting acids and bases				
44-46	Coloring in Litmus paper				
47-49	pH scale				
50-59	Secret messages experiment				
60-64	Cloze worksheets				
65-75	Assessment				
76-77	Terms of Use				

Also included in this resource as separate files:

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

This unit contains 10 days of material 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.

Quick Look

Day		Activity		
1	 Book Vocab board activity Circle map Book 			
2	 Vocab board activity Circle map 			
3	 Book Who am I Sorting activity 			
4	BookWho am ILitmus Paper	Day 8		
	Book	Activity	Notes	Materials
5	 Who am l pH scale 	Read or listen to	 Read through the story, asking lots of questions Continue to make connections between book 	BookVocabulary
6	BookWho am I activityExperiment	the book: Acids and Bases (10	and vocabulary board	board
7	BookBingoVocab cut and paste	minutes) Bingo (15	See separate pdf for Bingo cards and directions	Bingo boarc
8	BookBingoClose worksheet	minutes)	 For different ways to play Bingo and use the cards go here: https://specialneedsforspecialkids.org/2022/01/31/10- ways-to-play-bingo-in-your-special-education- 	markers
9	BookBingoClose worksheet	Vocabulary	Review the vocabulary activity completed	Complete
10	Assessment	review (5 minutes)	yesterday	activity from yesterday
		Close worksheet (10 minutes)	 Complete the first close worksheet on acids Add color coding as needed Make connections to the book as necessary NOTE: This is your first opportunity to assess students on a small part of the material and determine if any re-teaching will be needed prior to the assessment 	 worksheet scissors glue

Sharing

minutes)

(10

Each student shares their finished activity with

their choice

the group using the communication method of

Completed

activity

devices

Communication

- needs
- Detailed instructions on
 - how that day's lesson should run

The lesson plans contain:

Overall tips for teaching students with significant

A quick look at what you will do each day



Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox

This unit comes with a vocabulary board.

with participation and engagement in group discussions.

unit!!

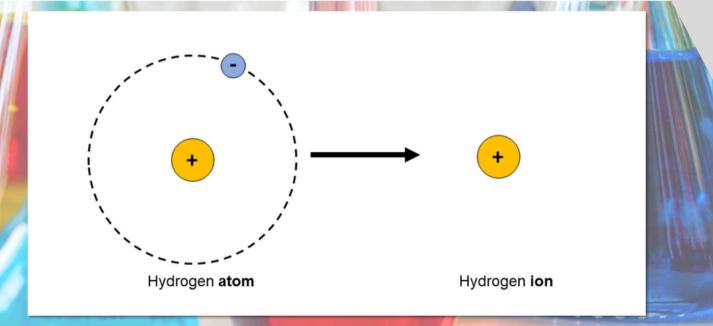
Vocabulary boards are great for ALL students to assist

Tips on how to use in the

Have you ever bit into a slice of lemon? Did it make you pucker? Did it taste sour? You can thank an acid for that.

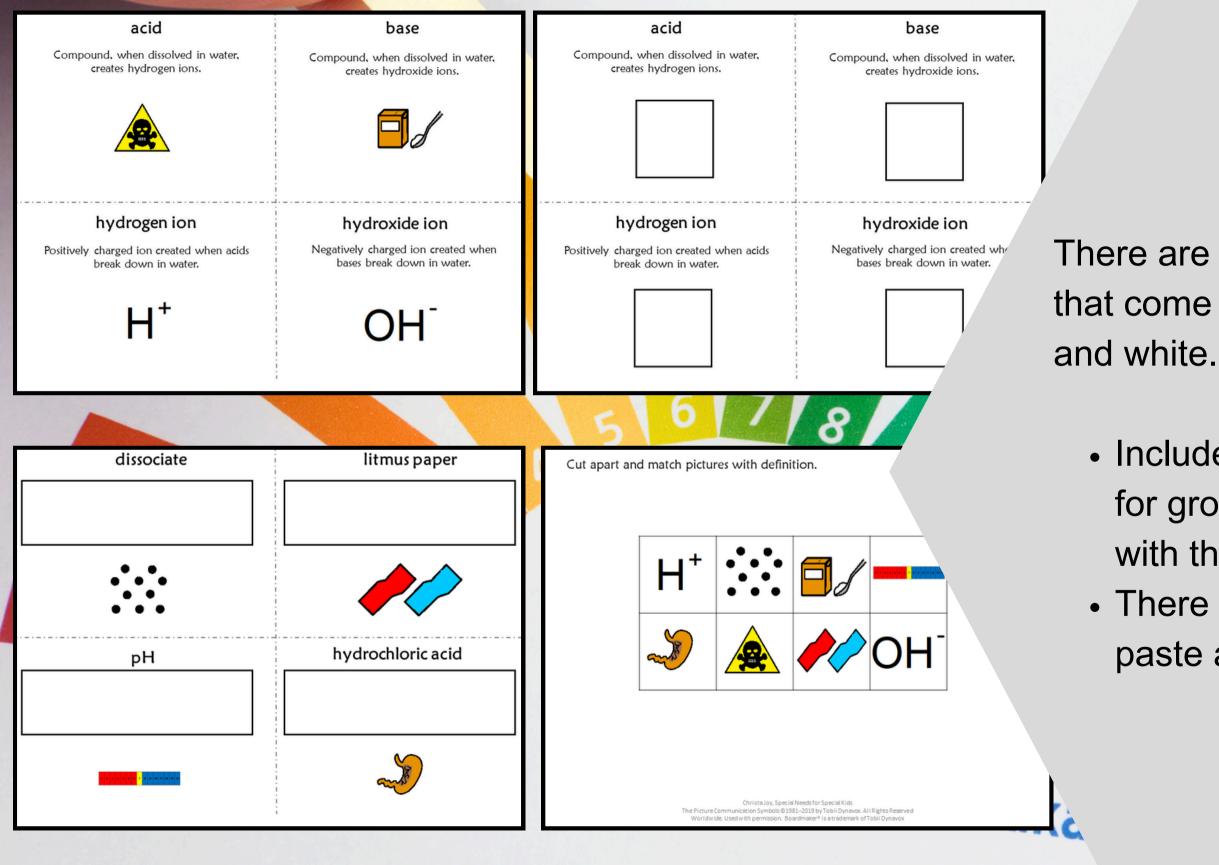


Hydrogen ions are hydrogen atoms that have lost their one electron, leaving the positively charged proton. This is the hydrogen ion.



There is a 42 page book with this unit using simple text and photos.

- It comes in a PowerPoint as
 - well as an mp4/ movie
- version (so you don't have to print it out.)



- There are 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 activity.

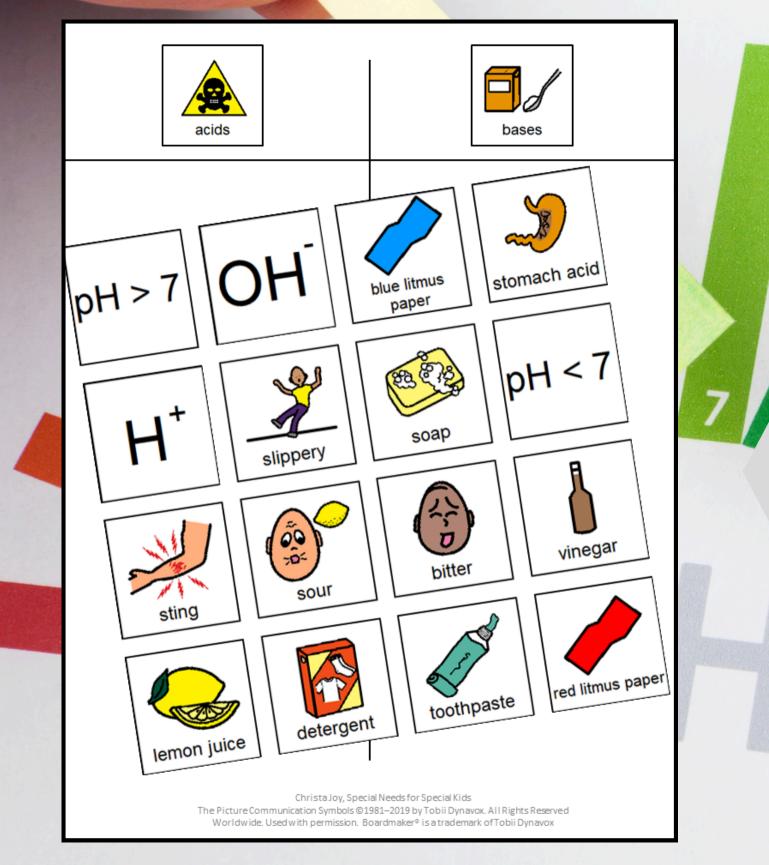


There are 2 circle maps. One is on acids, and the other is on bases that review the main points from the book.

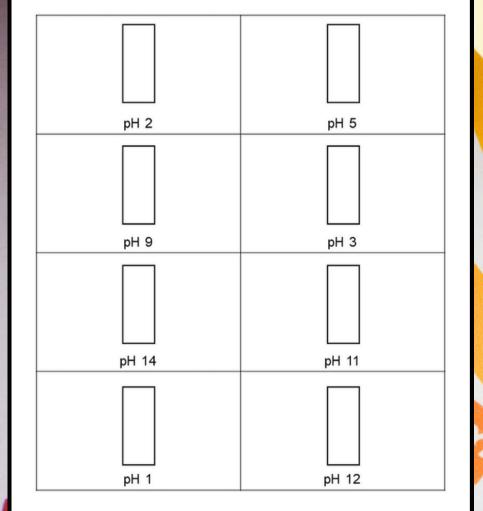
Circle maps ar students to see glance. There

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

- Circle maps are a great way for
- students to see the concept at a
- glance. There are 2 versions:



There is a sorting activity comparing acids and bases. Suggestions for differentiation and an answer key are included. Color in the litmus paper, either red or blue, depending on the conditions present.



Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2021 by Tobii Dynavox, All Rights Reserved Worldwide, Used with permission. Boardmaker® is a trademark of Tobii Dynavox

Acid

Color in the litmus paper, either red or blue, depending on the conditions present.



Christa Joy, Special Needs for Special Kids The Picture Communication Symbols ©1981-2021 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox

Students will color in the litmus paper depending on whether it is an acid or base.

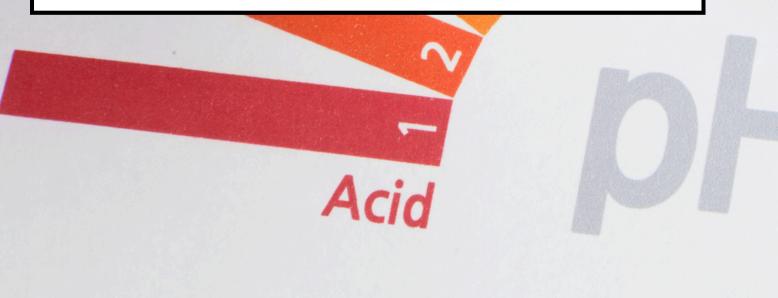
Using the key, place the items above the pH scale in the correct location.

12 2 9 14 3 5 6 7 8 10 11 13 4

- Coke pH 3
- Hydrochloric acid 1
- Borax pH 9
- Bleach pH 13
- Celery pH 6



Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2021 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox



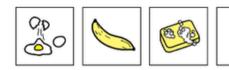
Students will place various objects on a pH scale based on a key.



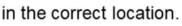
Using the key, place the items above the pH scale in the correct location.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
---	---	---	---	---	---	---	---	---	----	----	----	----	----

- Lemons pH 2 •
- Bananas pH 5
- Eggs pH 8
- Soap pH 12
- Distilled water pH 7



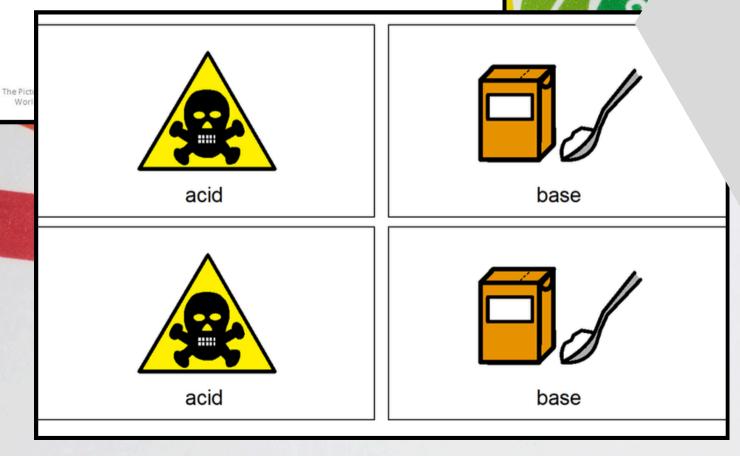
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2021 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox





Who am I cards

- Give each student a set of Who am I cards
- Various options/ways to play, but the goal is to have students hold up the card you are talking about. Sometimes there can be more than one correct answer
- Things you can do:
 - · Hold up a who am I card
 - Show a page from the book
 - · Point to a symbol on the vocabulary board
 - · Verbally describe something about an acid or a base.
 - How does it taste?
 - How does it feel?
 - What is the pH?
 - What color is the litmus paper?
 - What type of ions are primarily present?
 - · Give examples of an acid or a base.



and directions for group activity.







There are large cards playing a "Who am I?"

Bingo cards

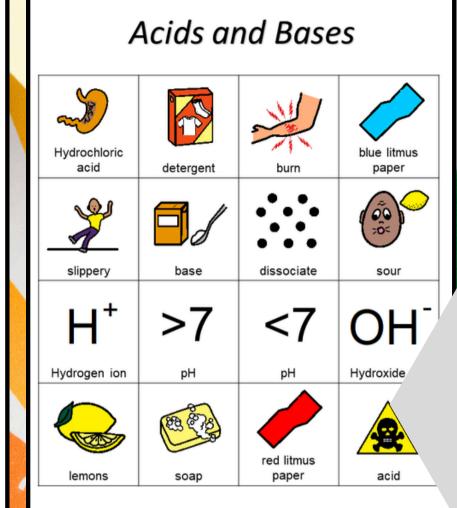


slippery

burn

- Included are 10 Bingo cards in color and 10 Bingo cards in BW.
- Place the cards in page protectors or laminate for long term use.
- Cut one board apart to use as calling cards.
- · This is a great way to practice the new vocabulary included in this unit.
- · Cut apart a set of the vocabulary cards to use as the calling cards.
- Options:
 - · Show students the picture for them to match
 - Read the definition and see if students can find the matching picture
 - Work as teams
 - · Vary the "winning" patterns.
 - Cover all
 - Cover corners
 - Row across or down
 - Cover the edges
 - Vary the ways to mark the card
 - · Place in page protector or laminate and use dry erase markers
 - Stickers
 - Post-it notes
 - Dot markers

The Picture Communication S Worldwide. Used with per



hts Reserved

Calling cards included

Dynavox

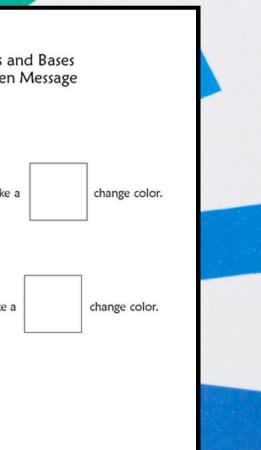


soap

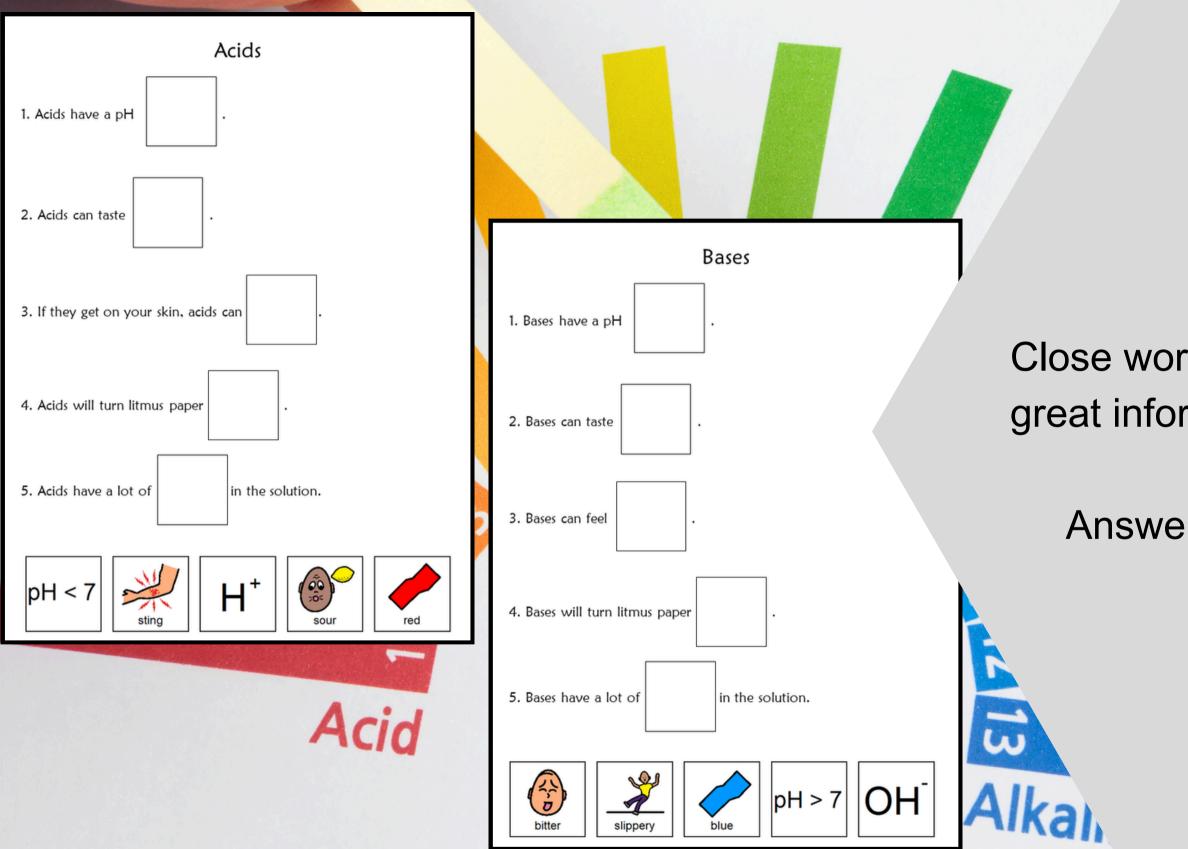
There are 10 color and 10 black and white Bingo cards included plus 10 different ways to use them and play Bingo. There are calling cards included. This is a great way to review vocabulary.

Acids and Bases Hidden Messages People on my team:		cludes an experiment. Students will w vith a base that will appear when an a							
Materials needed:	Pictures incl								
cup water	Detailed tea	cheri		ns are inc		eu.			
paintbrush My hypothesis	Acids and Bases Hidden Messages		Acids and E Hidden Me			Acids Hidde			
The Picture Communication Symbols @1981-2018 by Tobil Dy Worldwide. Used with permission. Boardmaker® is a trade	secret message will ay it with .	Testing You will	#1 paper	ernoon):		What I learned			
I think my	secret message will		Prediction	Result	1711	will not make			
when I spr	ay it with		r #2						
	Christa Joy, Special Needs for Special Kids re Communication Symbols @1981–2018 by Tobii Dynavox. All Rights Reserved wide. Used with permission. Boardmaker ^a is a trademark of Tobii Dynavox	182	Christa Joy, Special Ne The Picture Communication Symbols @1981= Worldwide. Used with permission. Boardr	2018 by Tobii Dynavox. All Rights Reserved		Christe The Picture Communication Syr Worldwide. Used with perm			

vrite a secret cid is added.

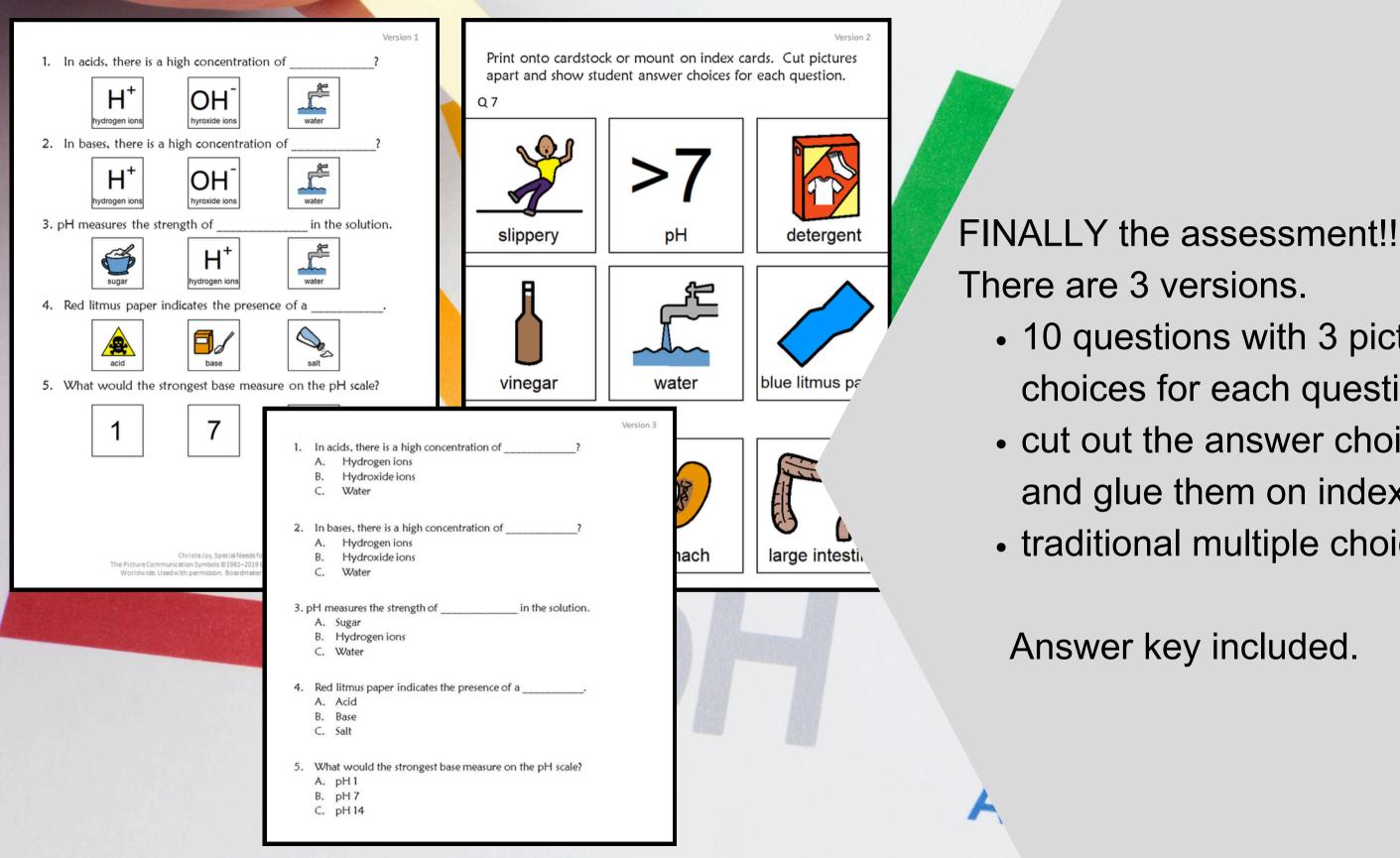


a Joy, Special Needs for Special Kids ymbols © 1981–2018 by Tobii Dynavox, All Rights Reserved mission. Boardmaker® is a tradiemark of Tobii Dynavox



Close worksheets are a great informal assessment.

Answer key included.



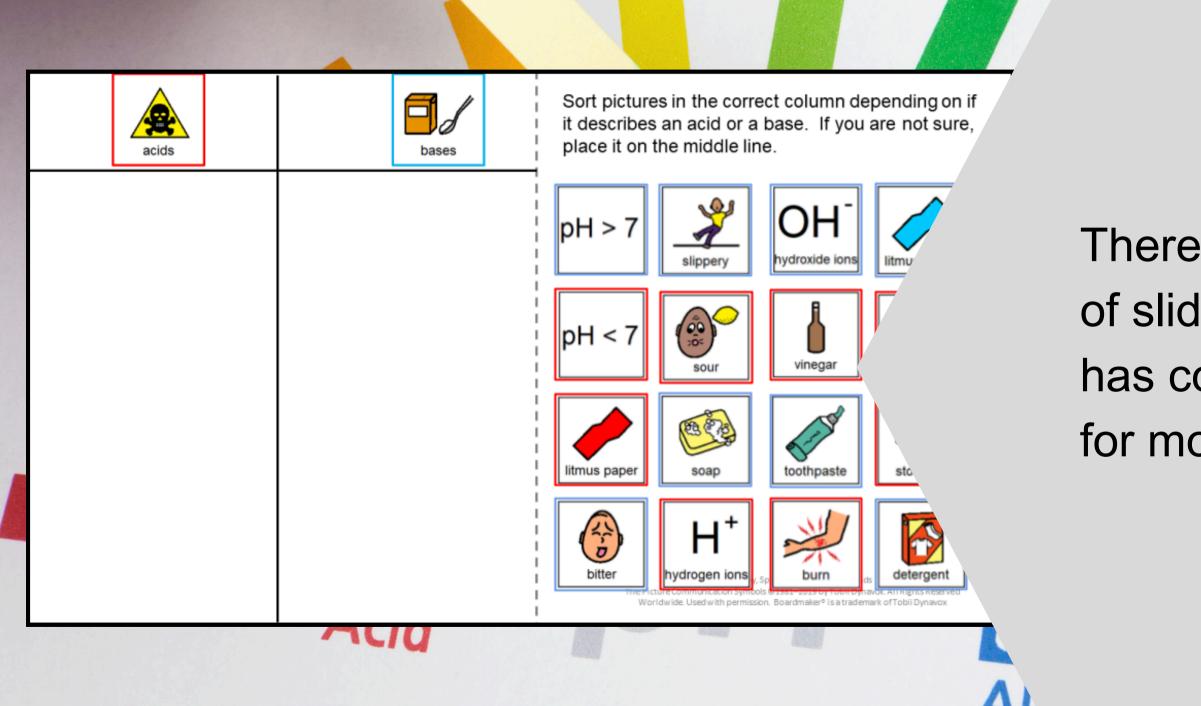
- 10 questions with 3 picture
 - choices for each question
- cut out the answer choices
- and glue them on index cards traditional multiple choice



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



The digital activities have students click and drag their answers.



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

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

- 10 days of lesson plans
- Acids and Bases activities in color
- Acids and Bases activities in black and white
- Voice-recorded PowerPoint show
- Acids and Bases book (PowerPoint) to use with activities
- Links and directions to digital activities

