

Table of Contents

Pages	Activity
4-41	Sound Energy
42-44	Vocabulary board
45-53	Vocabulary cards
54-69	Vocabulary cards cut and paste
70-75	Circle map
76-88	Sorting activities
89-101	Sequencing activities
102-116	Sound experiments
117-122	Close Worksheets
123-135	Vocabulary Sudoku
136-137	Vocabulary Word Search
138-155	Assessment
156-157	Terms of Use

This unit contains over 150 pages of material. 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.

Sound Energy Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit
 - 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 to use in 1 Spy games

Preassessment (do day 1 before starting lesson)

- · Choose the form of the assessment that best fits the learning level of your students
- · Give the assessment to assess what your students may already know
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

- Color Coding: this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching task.
 - For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/
- Make you own copies of the activities: Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - b. My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.

The lesson plans contain:

Overall tips for teaching students with significant needs

Quick Look

			T
Day	Activity	Day	Activity
1	Book Vocab cards activity Circle map	7	Book Experiment #2
2	Book Vocab cards activity Sorting Activity	8	 Book Vocab cards cut and paste Vocabulary puzzle
3	Book Vocab cards activity Sorting activity	9	Book Vocab cards c and paste Vocabular puzzle
4	Book Vocab cards activity Sequencing activity	10	Book Vocab cards activity Close worksheet
5	Book Vocab cards activity Sequencing activity	11	 Book Vocab cards activity Close worksheet
6	Book Experiment #1	12	 Assessment

The lesson plans contain:

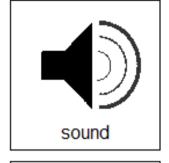
A quick look at what you will do each day

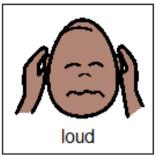
Day 11

Activity	Notes	Materials		
Read or listen				
	Read through the story, asking lots of	Book		
to a recording	questions	 Vocabulary 		
of the book	Continue to make connections between	board		
(10 minutes)	book and vocabulary board			
Vocabulary	Give each student a pile of pieces	 Vocabulary 		
cards <mark>Puzzle</mark>	 Have them reassemble the pieces into the 	cards (set		
Game	correct symbols	where each		
(10 minutes)	They may have to ask each other if	card is cut in		
	someone else has the second half to a piece	half)		
	they have. Great for increasing	•		
	communication and sharing.			
Review	Review the close worksheet from yesterday	 Finished close 		
(5 minutes)		worksheet		
Close	Complete page 2 close worksheets	Book (if needed)		
Worksheet	Use color coding if needed (see note on	for students to		
(10 minutes)	page 1 for more information)	find answers)		
	This is your first real chance to begin	Vocabulary		
	assessing if your students are making	board		
	connections to the material.	• Close		
		worksheet		
		 Scissors 		
		Glue		
Sharing	Fach student shares their finished close	Completed		
(10 minutes)	worksheet	worksheet		
,		Communication		
		devices		
Time to Assess	 At this point, you should have a fairly good it 			
a necessary to the Company of	your students are doing with the material.	IIIII		
	What areas do you need to re-teach before moving onto the fina assessment? Consider redoing some of those specific activities.			
	Do NOT be afraid of repetition.			
	 Move onto the assessment when you feel your students are ready. 			
Miove onto the assessment when you red your students are ready				

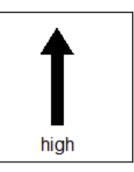
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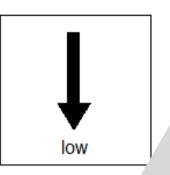
Detailed instructions on how that day's lesson should run

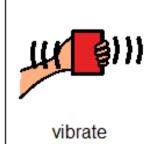


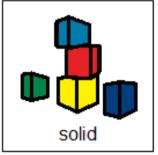


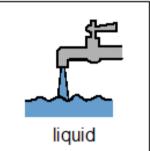


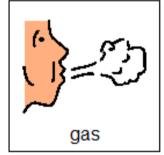




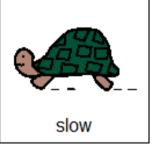


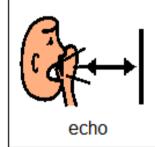








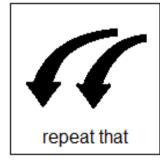


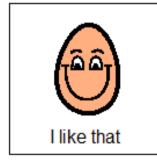


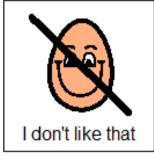




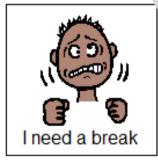








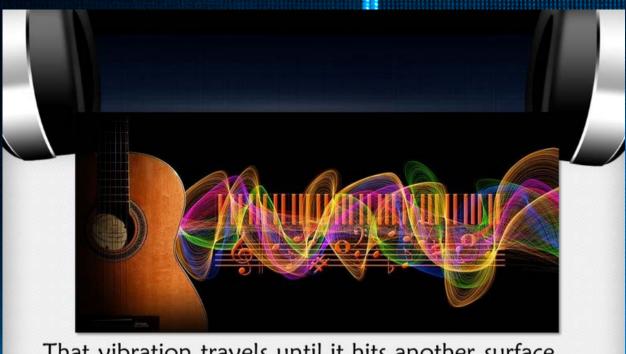




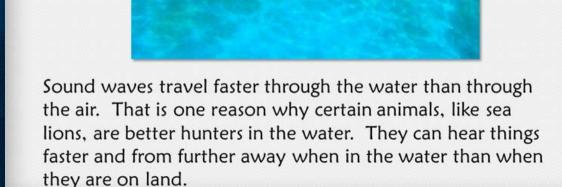
This unit comes with a vocabulary board.

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

Tips on how to use in the unit!!



That vibration travels until it hits another surface where it is either absorbed, transferred, or reflected.



There is a 38 page book with this unit using simple text and photos.

It comes in a pdf version as well as a voice recorded powerpoint (so you don't have to print it out.)

sound

Form of energy that travels through a medium.



longitudinal wave

A wave that moves through something, pushing the molecules in the same direction it is moving.



vibrate

Molecules moving very fast.



frequency

How many vibrations occur in one second.



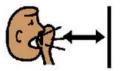
intensity

How loud a sound is.



echo

Sound wave that is repeated because it is reflected back off a hard, smooth surface.



decibe'

How the loudness of a

dB

echolocation

Bats send out ultrasounds that are reflected back and show the location of objects.



There are 13 vocabulary cards that come in color and black and white.

Included are suggestions for group activities to do with these each day.

sound

Form of energy that travels through a medium.

vibrate

Molecules moving very fast.















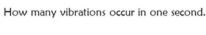






longitudinal wave

A wave that moves through something, pushing the molecules in the same direction



frequency



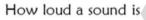












A wave that moves through some pushing the molecules in the same dire is moving.

Sound wave that is repeated because it reflected back off a hard, smooth surface

A sound most people can hear.

ultrasounds amplitude



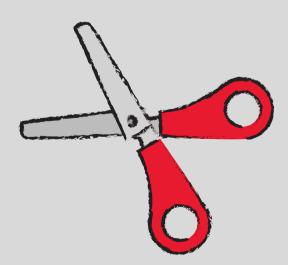


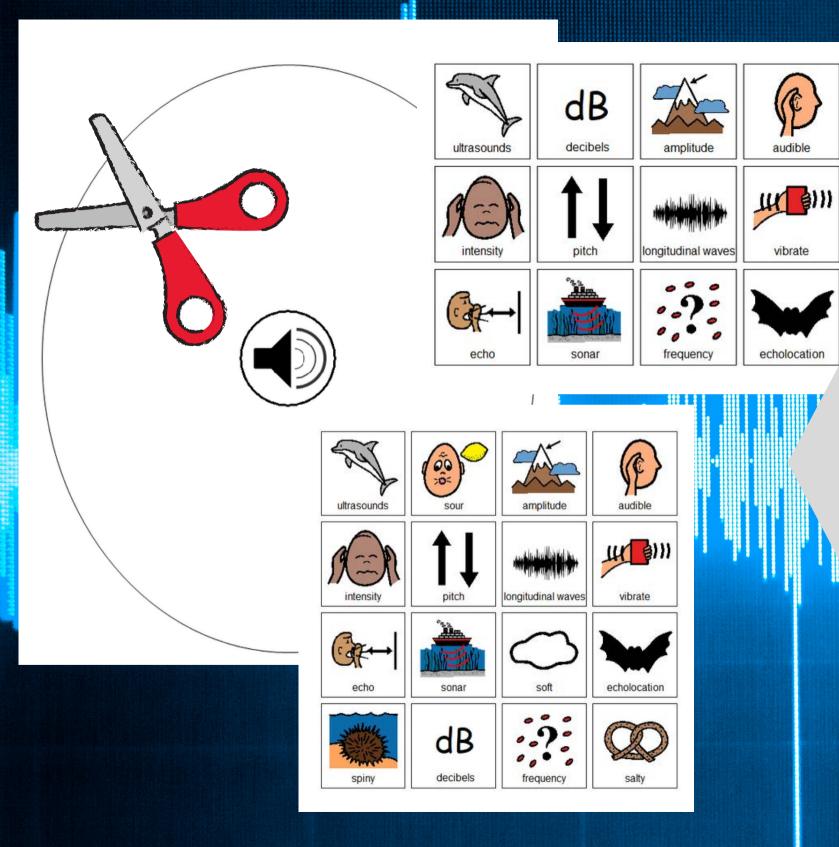
Bats send out ultrasounds that are reflected back and show the location of objects.

Molecules moving very fast.

How many vibrations occur in one second.

On days 8 & 9 there is an activity where students will match either the picture to the definition or the definition to the picture (harder).

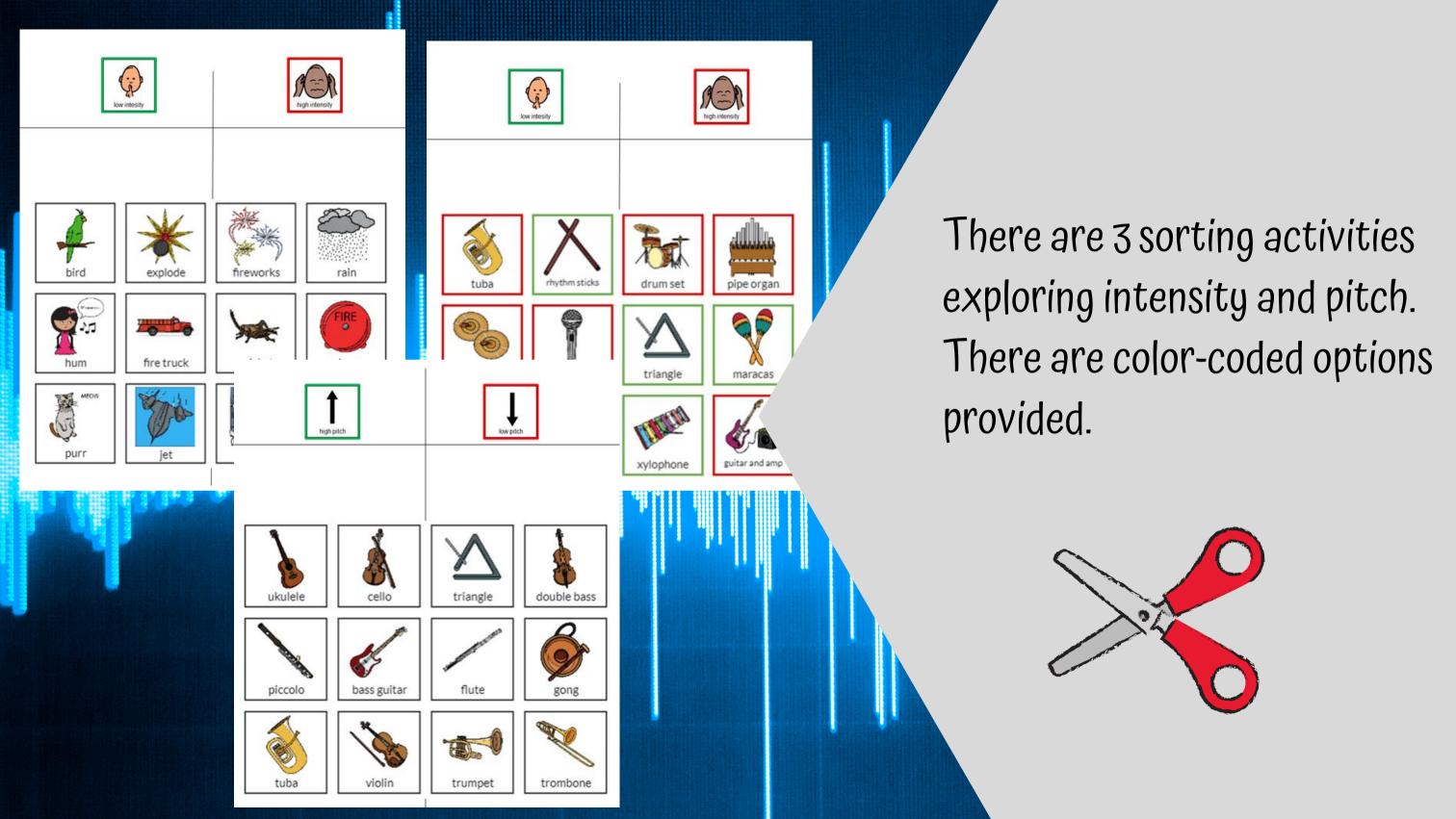


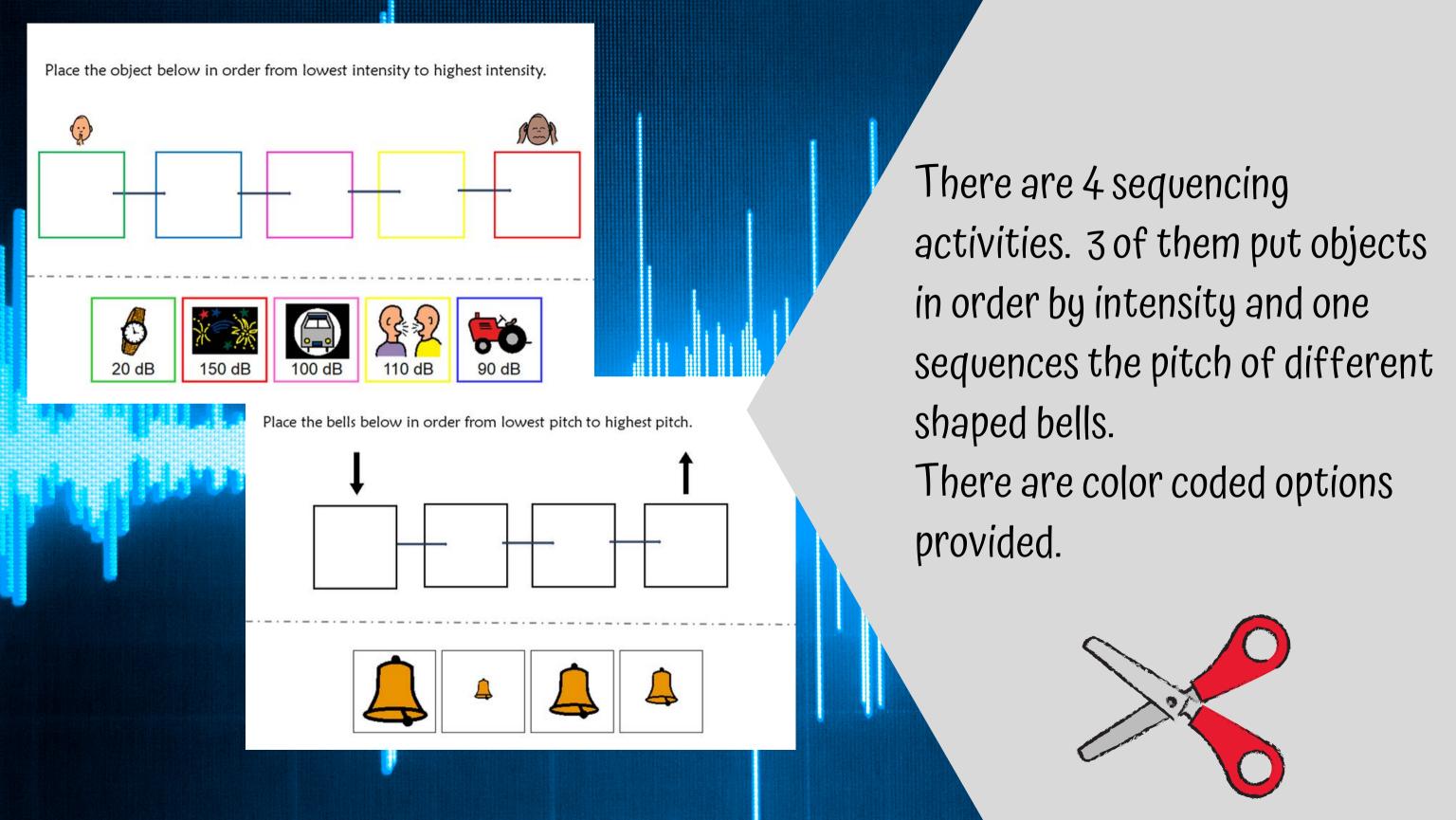


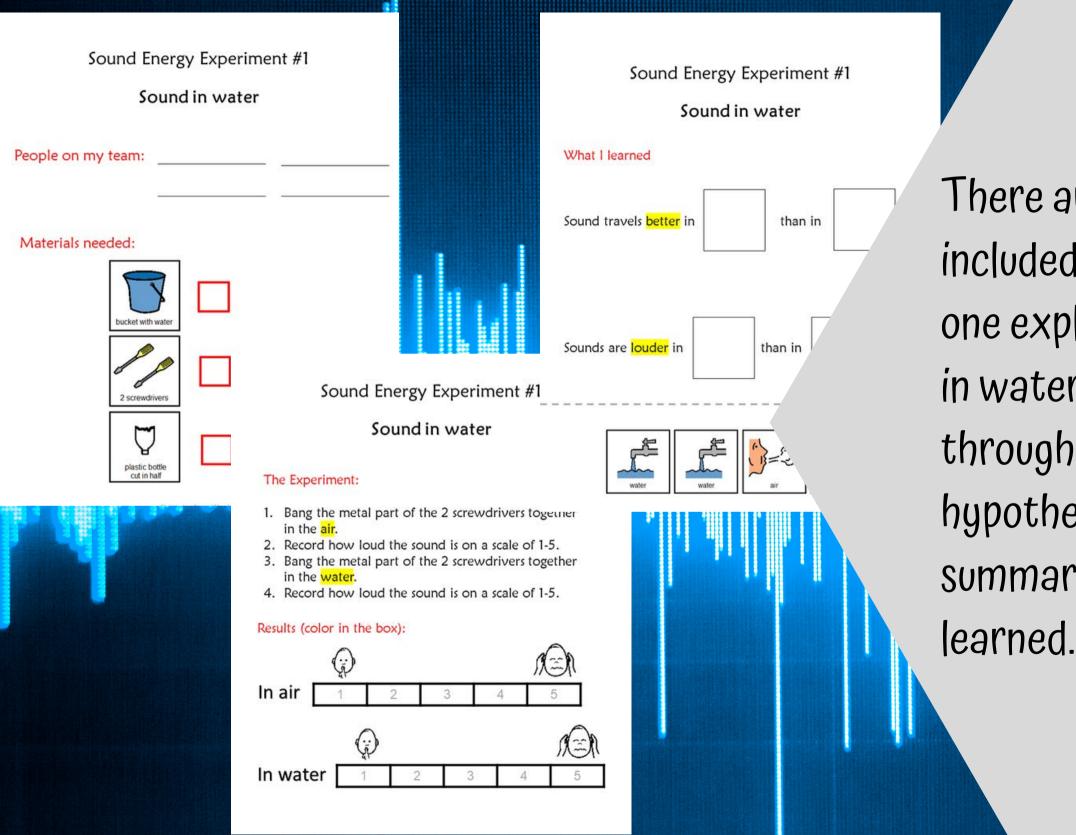
There is a circle map.

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

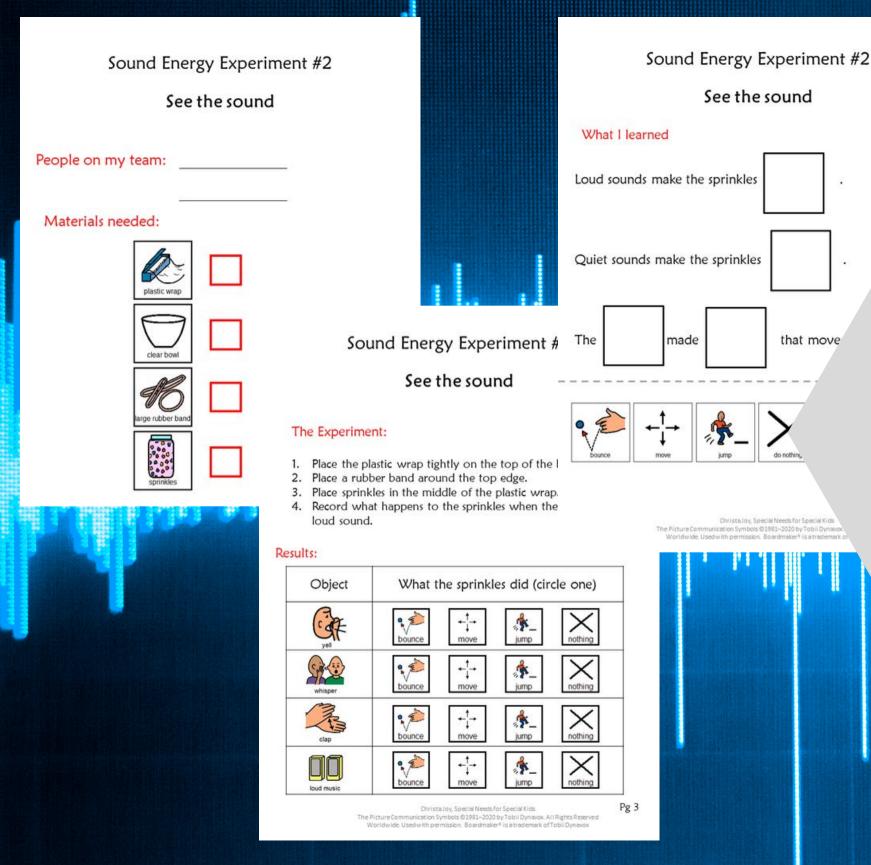
- One is errorless
- One has wrong answers mixed in students will have to set aside





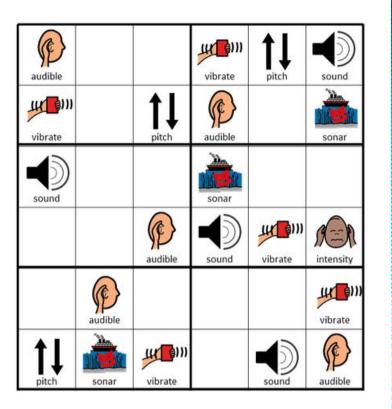


There are 2 experiments included in this unit. The first one explores how sound travels in water. It guides students through creating and testing a hypothesis. At the end they summarize what they have

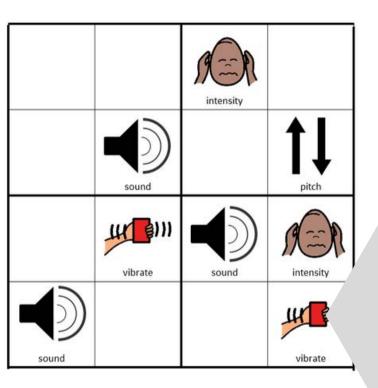


The second experiment explores how sound causes vibrations. It guides students through creating and testing a hypothesis. At the end they summarize what they have learned.

Sound Energy



Sound Energy



There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

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







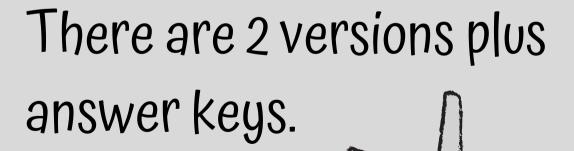












Sound Energy

ULTRASOUNDKNASH YWABETHWEWKPEOE MDUIHBLECAYHCUN NWDMZEODHVSKHNU LSIDIVNCOEZAODE FOBENVGYSAJRLYO ANLCTEIANFNEOHX MAEIEKTAOVWJCDT PRXBNBUPJIBDAQI LHBESLDICBHYTQQ IXELIQITNRSQIDJ TUSSTBNCXAEKOFQ UGJJYTAHITBZNRF DUJSEFLWEEEWBTM

echolocation intensity sound

wave

longitudinal amplitude vibrate

echo

e decibels sonar

ultrasound frequency decibels audible sonar pitch

....

Sound Energy

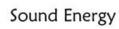
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echolocation intensity sound wave longitudinal amplitude vibrate

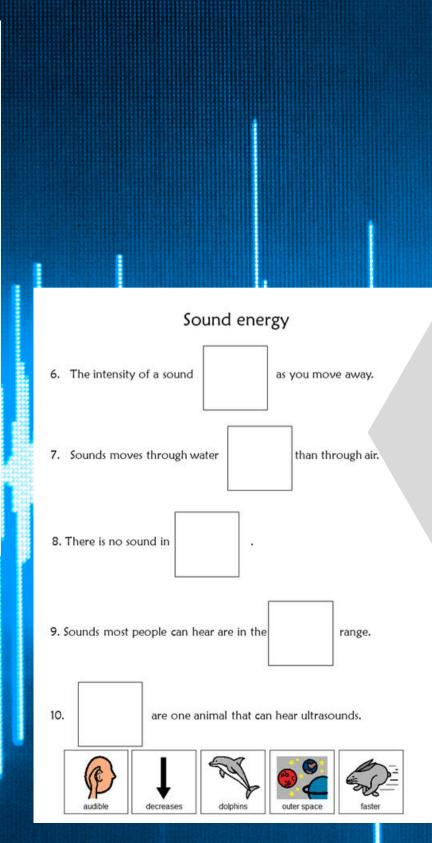
echo

ultrasound decibels sonar

frequency audible pitch There is also a word search to work with vocabulary. If your students cannot do a word search, have them highlight the circle words on the answer key.



1. Sound travels in 2. The sound waves cause the molecules to 3. If the vibration bounces off a surface, it creates an use echoes to keep from running into things at night. 5. A flute has a higher than a tuba.



Close worksheet are a great informal assessment. This unit has 10 questions that review sound energy.

Answer key included.



 Sound travels through a solid, liquid, or gas when the molecules:







2. Sounds travels the fastest in:







3. Sound travels in:







4. This is how high or low a sound is:







5. This is how loud or quiet a sound is:







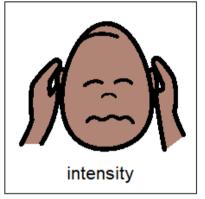
FINALLY the assessment!! There are 3 versions. This version has 10 questions with 3 picture choices for each question.

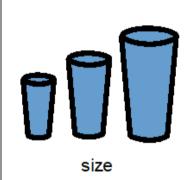
Answer key included.

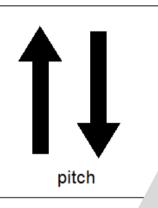


Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 5

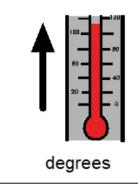






Q 6



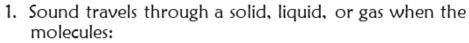


dB

decibels

With this version, you cut out the answer choices and glue them on index cards. Ask the student the question, and they point to the correct answer.





- A. Explode
- B. Melt
- C. vibrate
- 2. Sounds travels the fastest in:
 - A. Air
 - B. Liquid
 - C. solid
- 3. Sound travels in what form:
 - A. Longitudinal waves
 - B. Groups
 - C. Random order
- 4. This is how high or low a sound is:
 - A. Scale
 - B. Pitch
 - C. intensity
- 5. This is how loud or quiet a sound is:
 - A. Intensity
 - B. Size
 - C. Pitch
- 6. Sound is measured in:
 - A. Tons
 - B. Degrees
 - C. Decibels

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.



I realize there will be some students out there unable to do cutting activities. I have a blog post with ways to complete activities without a pair of scissors!!

All of the activities (except the books and fact sheet) come in color and black and white.