LAYERS OF THE ATMOSPHERE







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

The Atmosphere Unit for Special Education

By Christa Joy Special Needs for Special Kids

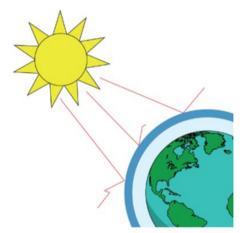




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Also included in this resource as separate files:

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

This unit contains almost 200 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.

Christa lov. Special Needs for Special Kid

The Atmosphere 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
 - o 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 I 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

- 1. 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.
 - a. For more info, read more here:
 - https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-fordifferentiation/
 - 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/
- 2. 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.

Overall tips for teaching students with significant needs

The lesson plans contain:

Quick Look

Day	Activity	Day	Activity
1	 Book Vocab cards activity Circle map 	7	 Book Vocab cards cut and paste Sudoku puzzle
2	 Book Vocab cards activity Circle map 	8	 Book Vocab cards cut and paste Word search
3	 Book Vocab cards activity Labeling activity 	9	 Book Vocab cards activity Close worksheet
4	 Book Vocab cards activity Labeling activity 	10	 Book Vocab cards activity Close worksheet
5	 Book Vocab cards activity Sorting activity 	11	Assessment
6	 Book Vocab cards activity Writing prompt 		

The lesson plans contain:

A quick look at what you will do each day

Day 10

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	 Read through the story, asking lots of questions Continue to make connections between book and vocabulary board 	BookVocabulary board
Vocabulary cards <mark>Bean Bag</mark> <mark>Toss</mark> (10 minutes)	 Glue the cut apart symbols to the paper plates (one on each plate) Arrange them around the room Students toss the bean bag trying to get it to land on a paper plate Students retrieve the paper plate and share the vocabulary card they retrieved 	 Vocabulary cards Vocabulary cards cut apart Small paper plates (you can also use pieces of construction paper) Bean bags
Close worksheet review (5 minutes)	 Review the close worksheet completed yesterday 	 Completed worksheet from yesterday
Close worksheet (10 minutes)	 Complete the close worksheets on the layers of the atmosphere Use color coding as needed Make connections to the book and vocabulary 	 Close worksheet Scissors Glue
Sharing (10 minutes)	 Each student shares their finished close worksheet 	 Completed close worksheet Communication devices

how that day's lesson should run

The lesson plans contain:

Detailed instructions on

atmosphere meteor pollution satelite det warme cool down laver 2 laver 3 laver 4 laver 5 laver 1 repeat that I like that I don't like that I don't know need a break

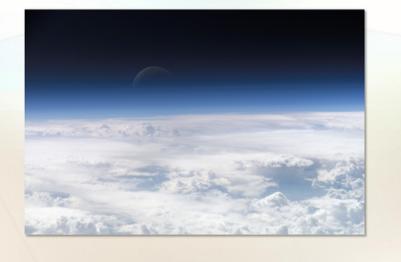
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Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

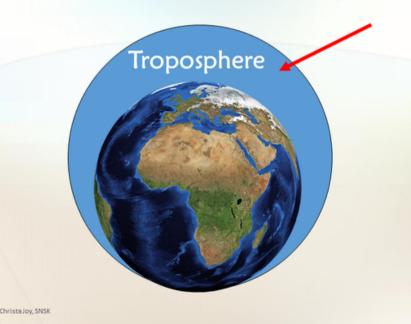
Tips on how to use in the unit!!

This unit comes with a vocabulary board.

The heterosphere is the outer most region that actually comes in contact with outer space.



The troposphere is the first layer and contains almost all of the atmosphere's water vapor.



There is a book with this unit using simple text and photos. It is 39 pages and is an overview of the layers of the atmosphere.

It comes in a PowerPoint version as well as a voice-recorded PowerPoint (so you don't have to print it out.) There is also a movie version you can use in google slides.

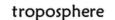
atmosphere

5 layers of sky that acts like a blanket to protect the Earth.



stratosphere Second layer of the atmosphere that protects the Earth from the sun's radiation.





First layer of the atmosphere that contains clouds, birds and where weather is formed.



Ozone layer Located in the stratosphere, it contains molecules to absorb and block the harmful radiation from the sun.



mesosphere

Third layer of the atmosphere that protects the Earth from meteors. It is also the coldest layer.



thermosphere

Fourth layer of the atmosphere that feels cold, but is really the hottest layer.



meteor

Large object that flies around in space and can get close enough to Earth to hit it.



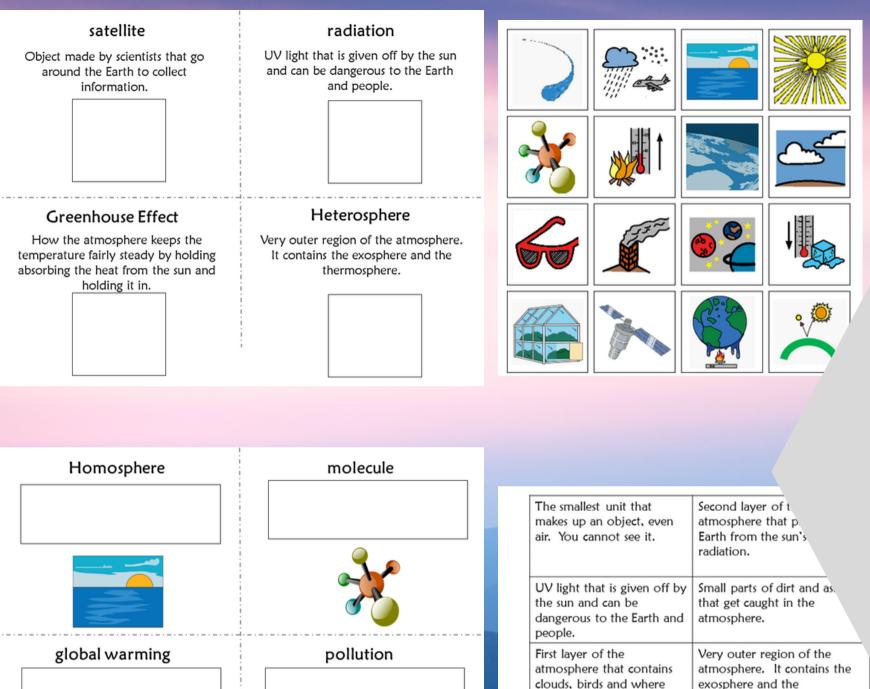
exosphere

The fifth of the atmosphere where outer space starts. It is where you find satellites orbiting Earth.



There are 16 vocabulary cards that come in color and black and white.

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



weather is formed.

Inner region of the

atmosphere, closest to

Earth. It contains the

and mesosphere.

troposphere, stratosphere,

or the definition to the picture (harder).

a

Locat

contain

and bloc

radiation

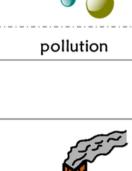
thermosphere.

Large object that flies around

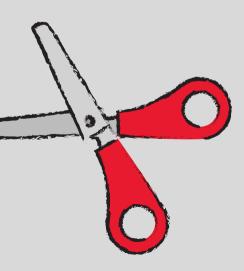
in space and can get close

enough to Earth to hit it.



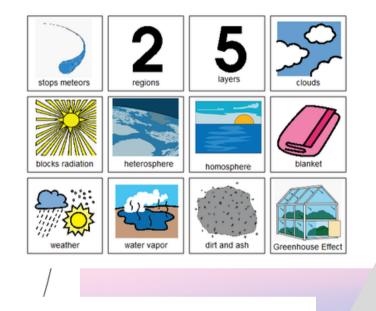


There is an activity where students will match either the picture to the definition



Errorless version

Cut apart pictures and place in circle map about the atmosphere.



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



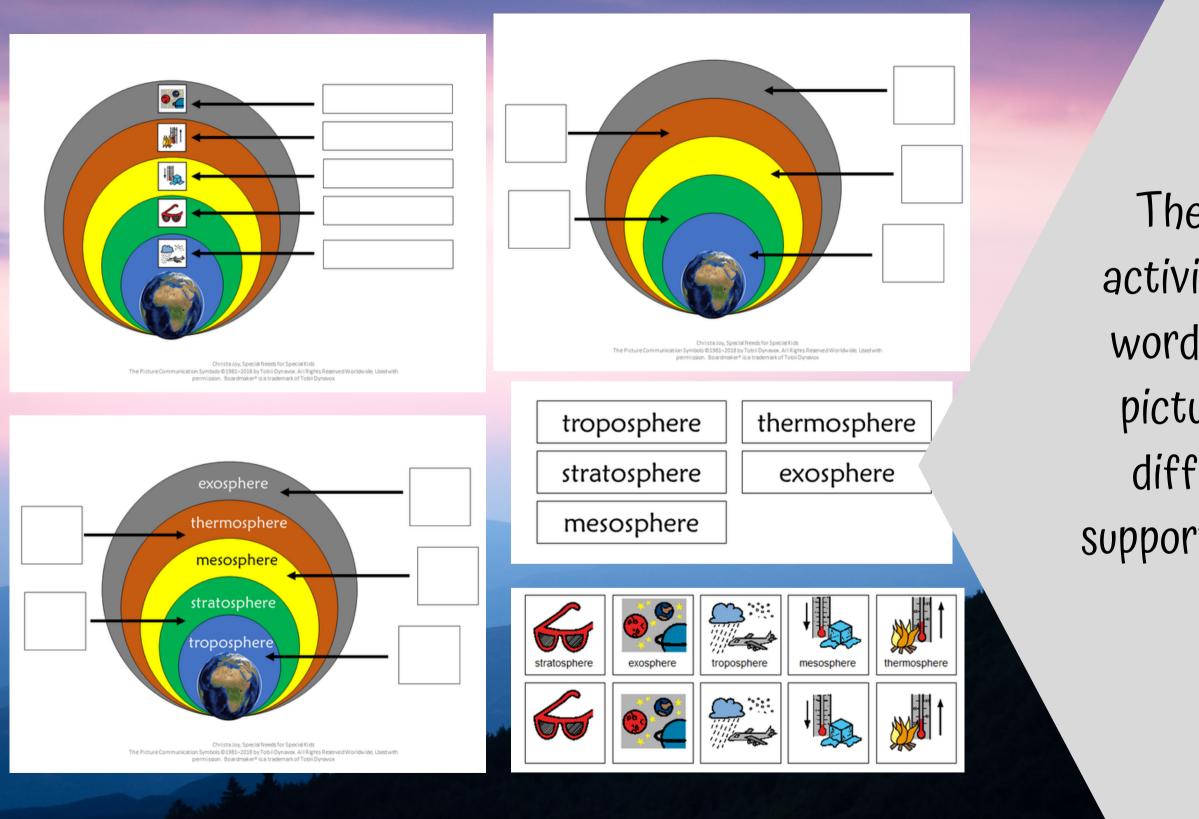
Circle maps are a great way for There are 2 versions:

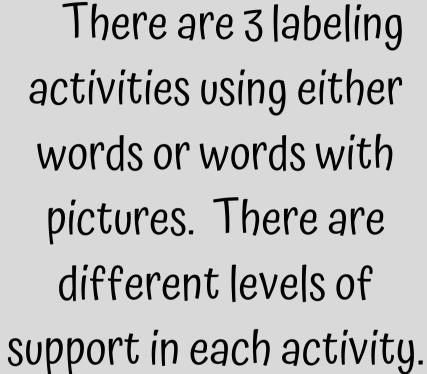
- One is errorless
- One has wrong answers mixed in students will have to set aside

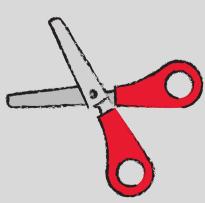


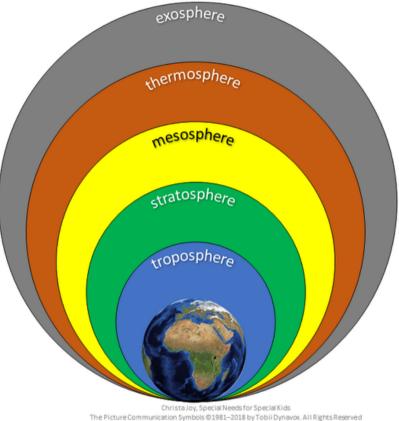


- students to see the concept at a glance.
- There are 2 circle maps reviewing the atmosphere in general and one on the layers.



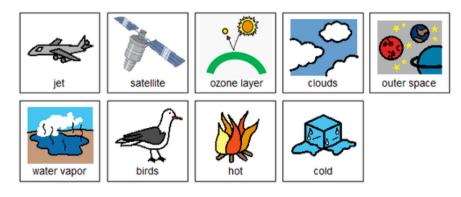




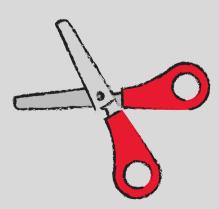


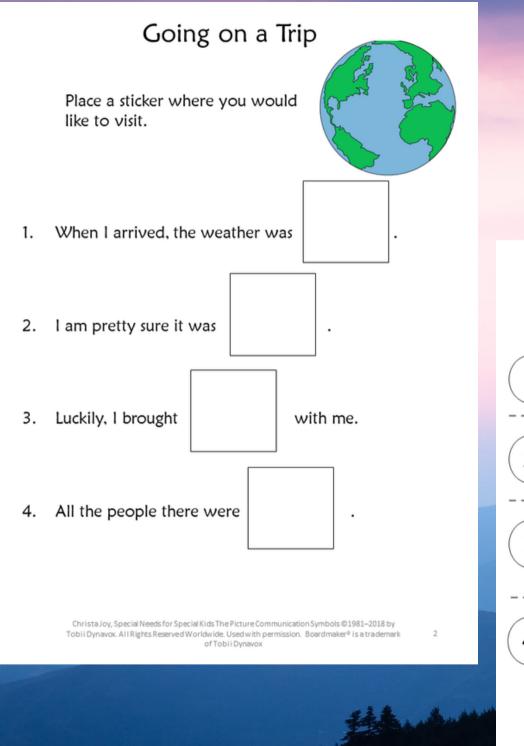
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> Place the following items where you think they would be found in the layers of the atmosphere. Some could go in more than one layer.

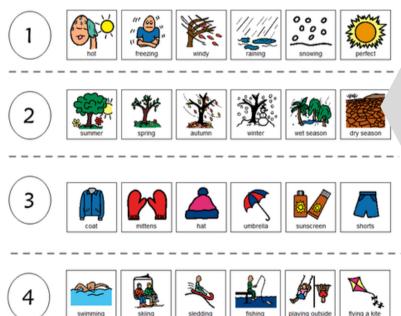


There is also a sorting activity comparing what you find in each layer of the atmosphere. Suggestions for differentiation are included.



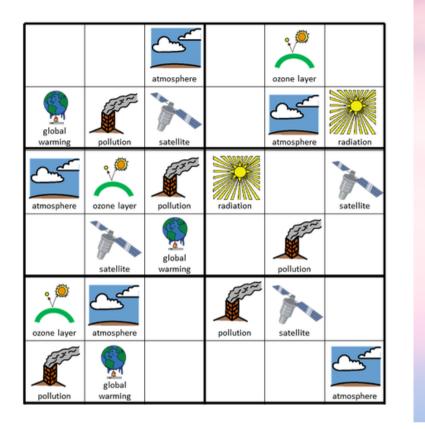


Have students pick one or more pictures for each question to complete the writing prompt on the previous page. They could also come up with their own answers!

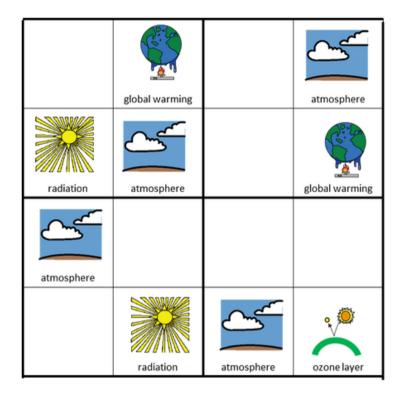


Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981–2018 by Tobil Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobil Dynavox. There is a writing prompt in this unit. Students will write a story about going on. This is an errorless activity.

Atmosphere



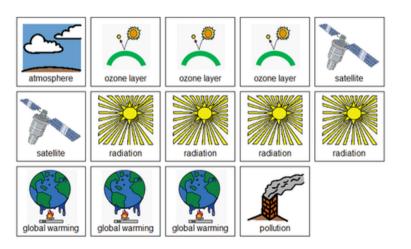
Atmosphere



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



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There are 2 versions plus answer keys.

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



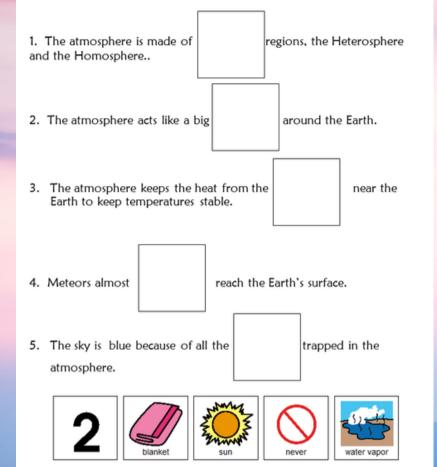
N W Y W O F A T R B P N M V D A T M O S P H E R E P D C W E Z O X L L E X O G Y W N T V R M X C A K K D R J U P R H X G T N T R O P O S P H E R E I X H P O L L U T I O N X S R R O O E X O S P H E R E T K M A M M P C X Q S J R E C X Q O D O O F S A T E L L I T E Z S I L S R K M O V L Q L F W Q P A E P X F E T S E B Z Z O Q H T C H E U D M H C U G X C D E I U E X G P O L J Z A L I P R O L R S M F F H Z D A X M D E N E E H E T E R O S P H E R E W E	
heterosphere thermosphere troposphere atmosphere exosphere homosphere satellite radiation pollution molecule	

Atmo	osphere
N W Y W O F A T M O S P Z O X L L E M X C A K K T N T R O P H P O L L U O E X O S P H P O L L U O E X O S P M P C X O S O F S A T E S R K M O V P X F E T S H E U D M H E X G P O L R S M F F H E H E T F R	A T R B P N M V D H E R E P D C W E X O G Y W N T V R D R J U P R H X G O S P H E R E J X T J O N X S R R O H E R E T K M A M J R E C X Q O D O L L J T E Z S I L L Q L F W Q P A E E B Z Z O Q H T C C U G X C D E I U J Z A L I P R O L Z D A X M D E N E O S P H E R E W E

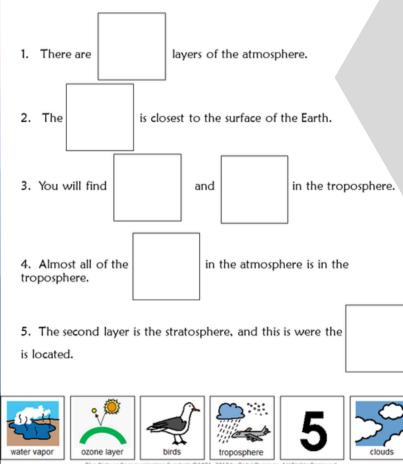
heterosphere	thermosphere	troposphere	atmosphere
exosphere	homosphere	satellite	radiation
pollution	molecule		

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.

The Atmosphere



Layers of the Atmosphere



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Close worksheets are a great informal assessment. There are 2 worksheets on the atmosphere and 2 layers on the specific layers. They cover the facts covered in the book.

Answer key included.



Version 1

The atmosphere protects the Earth from: (circle all)











What makes the sky look blue? 2.







How many layers are in the atmosphere?







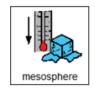
What is the name of the layer closest to the Earth? 4.







What is the name of the layer farthest from the 5. Earth?







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FINALLY the 10 questions with 3 question.

assessment!! There are 3 versions. This version has picture choices for each

Answer key included.

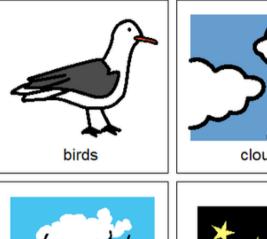
Version 2

satellite

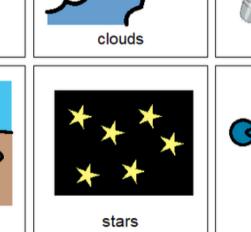
helicopter

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

Q 7



water vapor



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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.

- 1. The atmosphere protects the Earth from: (circle all)
 - A. Radiation D. Birds
 - B. Jet E. Volcano
 - C. Meteors F. Jet
- 2. What makes the sky look blue?
 - A. Paint
 - B. Water vapor
 - C. Outer space
- 3. How many layers are in the atmosphere?
 - A. 10
 - B. 7
 - C. 5
- 4. What is the name of the layer closest to the Earth?
 - A. Troposphere
 - B. Exosphere
 - C. Thermosphere
- 5. What is the name of the layer farthest from the Earth?
 - A. Mesosphere
 - B. Stratosphere
 - C. Exosphere
- 6. The purpose of the ozone layer is to block:
 - A. Water vapor
 - B. Helicopters
 - C. Radiation

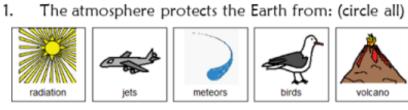
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols ©1981–2018 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.

Watch the movie about the Atmosphere

We need to keep the ozone layer healthy by limiting pollution. If there are not enough ozone molecules then the radiation will be able to leak through.



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





water vapor



What makes the sky look blue? 2.





How many layers are in the atmosphere? 3.





What is the name of the layer closest to the Earth? 4.





thermosphere

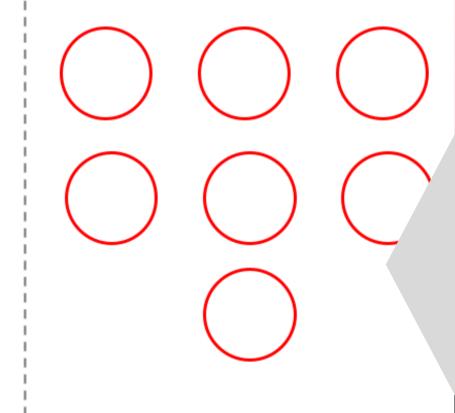
What is the name of the layer farthest from the Earth? 5.

stratosphere



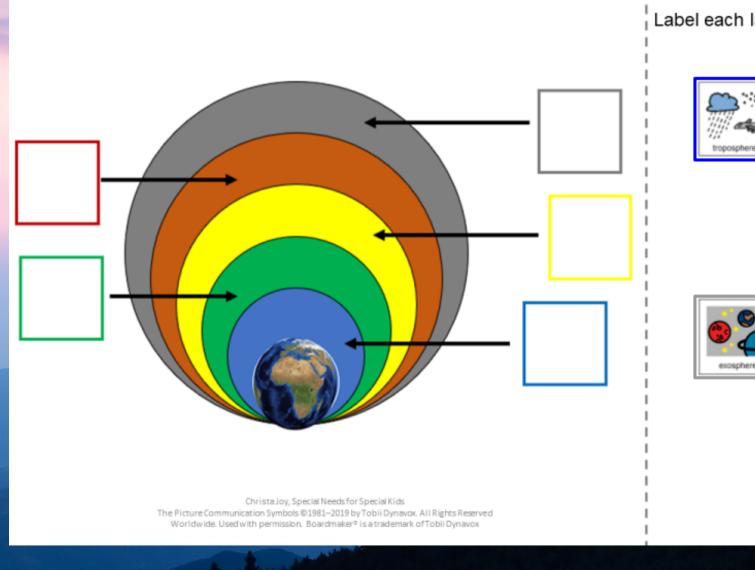


Circle the correct answer.



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The digital activities have students click and drag their answers.



Label each layer of the atmosphere.







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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:

- 11 days of lesson plans
- Atmosphere activities in color
- Atmosphere activities in black and white
- Voice-recorded PowerPoint shows
- Atmosphere book (PowerPoint) to use with activities
- Links and directions to digital activities