

# EARTH SCIENCE CURRICULUM

A hand-drawn diagram of Earth's layers. The diagram consists of several concentric circles and bands. The outermost band is blue and labeled 'Crust'. The next band is red and labeled 'Mantle'. Inside the mantle is a yellow circle labeled 'Inner Core'. Surrounding the inner core is an orange circle labeled 'Outer Core'. The outermost layer is a red band labeled 'Atmosphere'. The labels are written in blue cursive on white rectangular strips.

**8 UNITS 19 WEEKS**

JOY  
2  
TEACH

**ALSO INCLUDES GOOGLE SLIDES**



## For students who:

- 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





## Why you need this bundle:

- If you teach multiple grade levels, you have all you need in one place.
- Having the same layout for each unit reduces students' anxiety and allows them to focus on the content.
- Aligned with most extended learning standards.
- Saves you money
- Saves you time.



This curriculum includes 7 different units covering terrestrial and aquatic biomes. It includes:

1. Earth, Sun, Moon: Tides and Eclipses (3 weeks)
2. Hurricanes (1 week)
3. Severe Weather (3 weeks)
4. Layers of the Atmosphere (2 weeks)
5. Layers of the Earth (4 weeks)
6. Seasons of the Year (2 weeks)
7. Types of Clouds (2 weeks)
8. The Water Cycle (2 weeks)

All units have  
printable AND  
digital versions



All the units contain similar activities so students become familiar with the format and can concentrate more on the content. Although there is some variation, each unit has:

- Detailed lesson plans
- A book PLUS a pre-recorded PowerPoint show and movie version
- Vocabulary board to increase engagement and participation
- Vocabulary Cards
- Hands-on activities
- Circle maps
- Sorting activities
- Matching activities
- Labeling activities
- Close worksheets (fill in the blank)
- Assessments (3 versions)

All units have  
printable  
AND digital  
versions



# Table of Contents

Worksheet pages	Title
4-5	Vocabulary board
6-10	Vocabulary cards
11-22	Vocabulary cut and paste
23-29	Circle map
30-35	Labeling worksheets
36-39	Sorting activity
40-42	Writing prompt
43-49	Sudoku puzzle
50-51	Word Search
52-58	Cloze worksheet
59-69	Assessment (3 versions)
70-71	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 plan**)
- Voice recorded PowerPoint
- Activities in black and white

Every unit has a table of contents with lots of activities. There is a separate file with directions and links to the digital activities.



# Lesson plan

Every unit has a detailed lesson plan with:

- suggestions
- overview
- daily step-by-step guide.

## Day 3

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	<ul style="list-style-type: none"> <li>• Read through the story, asking lots of questions</li> <li>• Continue to make connections between book and vocabulary board</li> </ul>	<ul style="list-style-type: none"> <li>• Book</li> <li>• Vocabulary board</li> </ul>
Vocabulary cards   <b>Spy Game</b> (10 minutes)	<ul style="list-style-type: none"> <li>• I play this game see description on day 2</li> <li>• Today, try to give clues about the card your student needs to find               <ul style="list-style-type: none"> <li>◦ Read definition</li> <li>◦ Show real photo that relates to card from book</li> <li>◦ Describe the picture</li> </ul> </li> <li>• Discuss relevant points on the card               <ul style="list-style-type: none"> <li>◦ You can also play this game in this manner having them find the symbol on their vocabulary board</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Vocabulary cards (student set and teacher set)</li> <li>• Vocabulary board</li> </ul>
Large Layer Sequencing Cards (10 minutes)	<ul style="list-style-type: none"> <li>• Pass the cards out to the students and have them arrange themselves in the correct order               <ul style="list-style-type: none"> <li>◦ Add index cards if needed to floor (see day 2)</li> </ul> </li> <li>• Have each student step forward and name some facts from their card.</li> </ul>	<ul style="list-style-type: none"> <li>• Large layer cards</li> </ul>
Circle map review (5 minutes)	<ul style="list-style-type: none"> <li>• Review the circle map completed yesterday</li> </ul>	<ul style="list-style-type: none"> <li>• Complete circle map</li> </ul>
Circle Map (10 minutes)	<ul style="list-style-type: none"> <li>• Do the circle map about earthquakes</li> <li>• Choose the best version (errorless or not) depending on the learning level of your students</li> <li>• Students cut out symbols and place in circle map</li> <li>• Make connections to the book as necessary</li> </ul>	<ul style="list-style-type: none"> <li>• Circle map</li> <li>• Scissors</li> <li>• Glue</li> </ul>
Sharing (10 minutes)	<ul style="list-style-type: none"> <li>• Each student shares their finished circle map</li> </ul>	<ul style="list-style-type: none"> <li>• Completed activity</li> <li>• Communication devices</li> </ul>



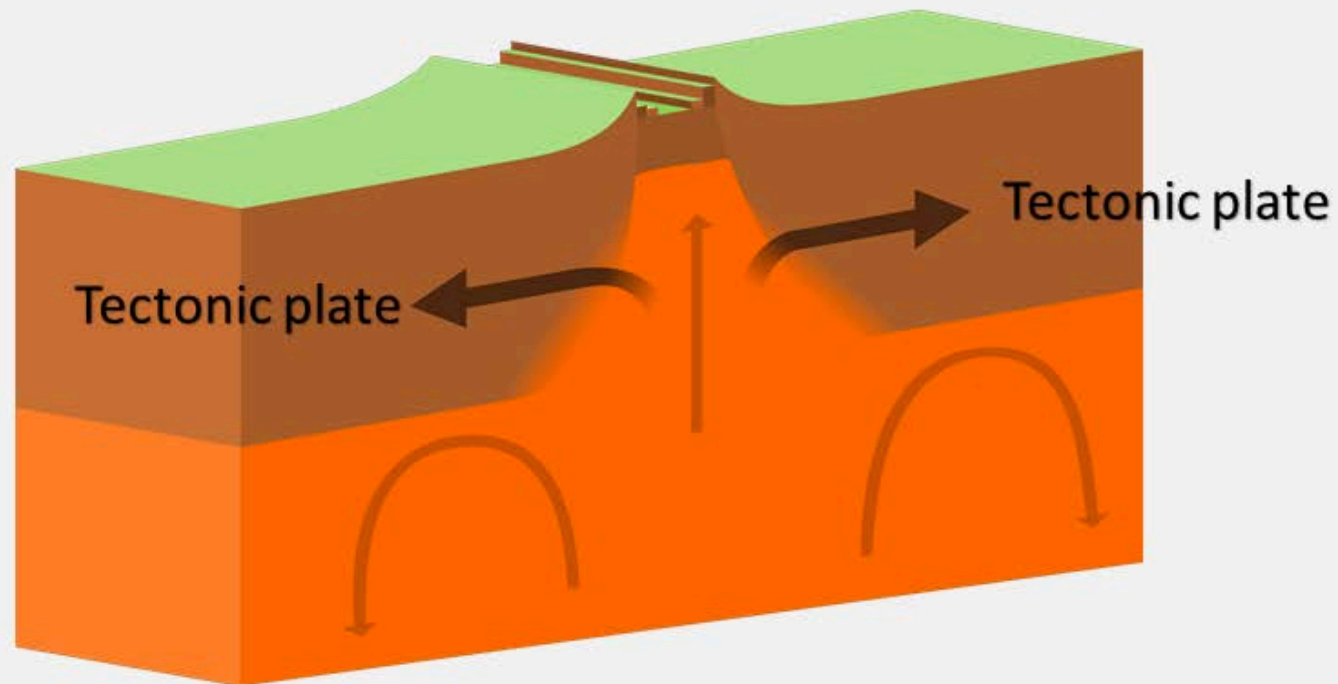


Every unit in the bundle comes with a vocabulary board. These are vital for increasing engagement and participation. Suggestions on how to utilize them are included in each unit.



# Book








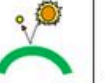












In the mantle, we find something called **tectonic plates**. Tectonic plates are very large pieces of rock that are a combination of the crust and the upper level of the mantle.



Each unit comes with a book in PowerPoint and mp4 formats. They have simple text and engaging photos and contain all the information your students will need to complete the activities.



# Atmosphere

		 atmosphere	 ozone layer	
 global warming	 pollution	 satellite		 atmosphere
 atmosphere	 ozone layer	 pollution	 radiation	
	 satellite	 global warming		 pollution
 ozone layer	 atmosphere		 pollution	 satellite
 pollution	 global warming			 atmosphere

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# Layers of the Earth

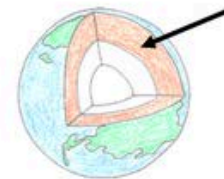
A E E P I C E N T E R L Q S M  
N V Q T Y G H Z N E G X Z I B  
B V K A X E X T I N C T M T D  
H A S E I S M O G R A P H U I  
Q G X D K D T F E K C R U S T  
D O R M A N T V O L C A N O T  
E W Q Q F V O X D S T Y H Z R  
B M R E A R T H Q U A K E X A  
A A N D M A N T L E O G J A C  
V G E I W K Y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

- seismograph
- epicenter
- volcano
- crust
- hypothesize
- outer core
- mantle
- fault
- earthquake
- tsunami
- dormant
- magma
- inner core
- extinct
- active
- erupt

The unit on each biome has vocabulary cards and vocabulary puzzles specific to that biome.

## mantle

Second layer of the earth and is hot but soft like Play-doh.



## tectonic plates

Very large pieces of rock that float on top of the mantle and just beneath the crust.



## volcano

Where hot vapor, gas and liquid rock escape from the mantle.



## earthquake

Severe shaking of the Earth when the tectonic plates slide and move against each other.

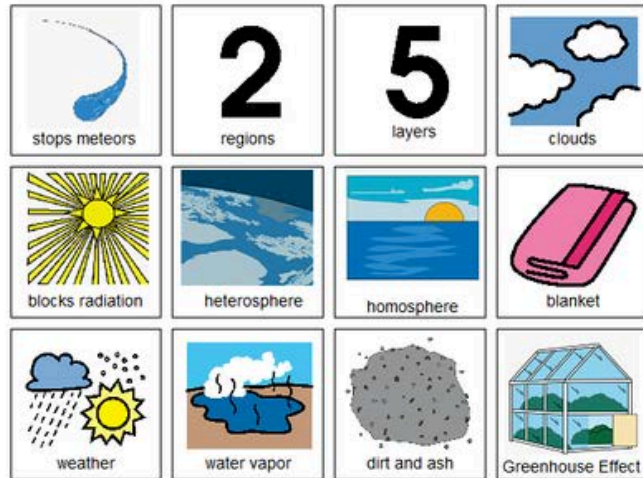


# Vocabulary

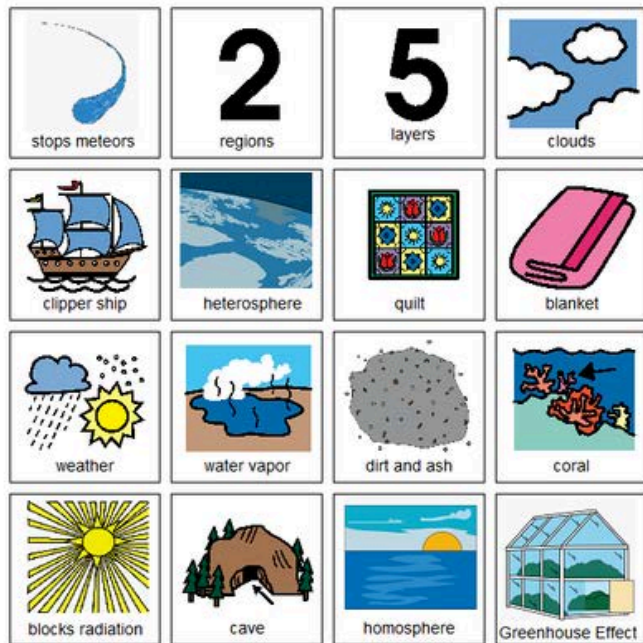


Cut apart pictures and place in circle map about the atmosphere.

Errorless version



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



Each unit comes with circle maps to review the main facts from the book. There is an errorless version and a version with wrong answers mixed in.

**circle maps**

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Both

High tide

low tide

moon on same side

high level of water

moon on opposite side

low level of water

caused by orbit of moon

water bulges away

2x happens twice a day

ocean

gravitational pull of water

moon on adjacent side

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There are sorting activities. Suggestions for differentiation are included.

Solar eclipse

Lunar eclips

moon in middle

earth in middle

special glasses

safe to look at

sun blocked from Earth

blood moon

every 2 years

turn day into night

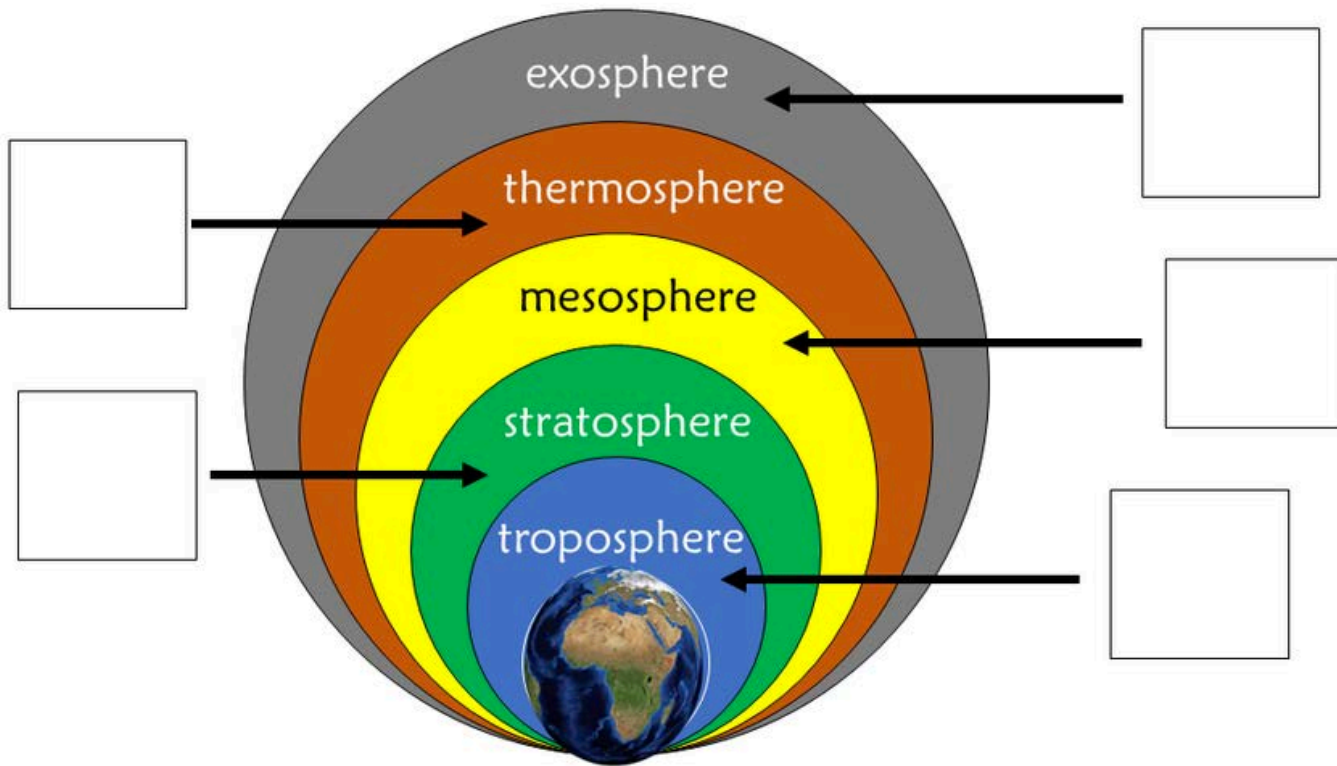
2x happens twice year

sun blocked from moon

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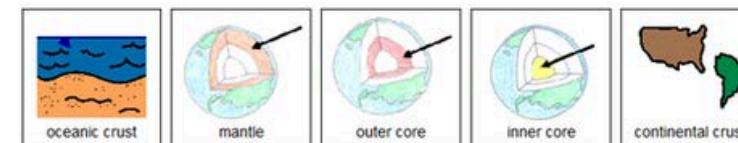
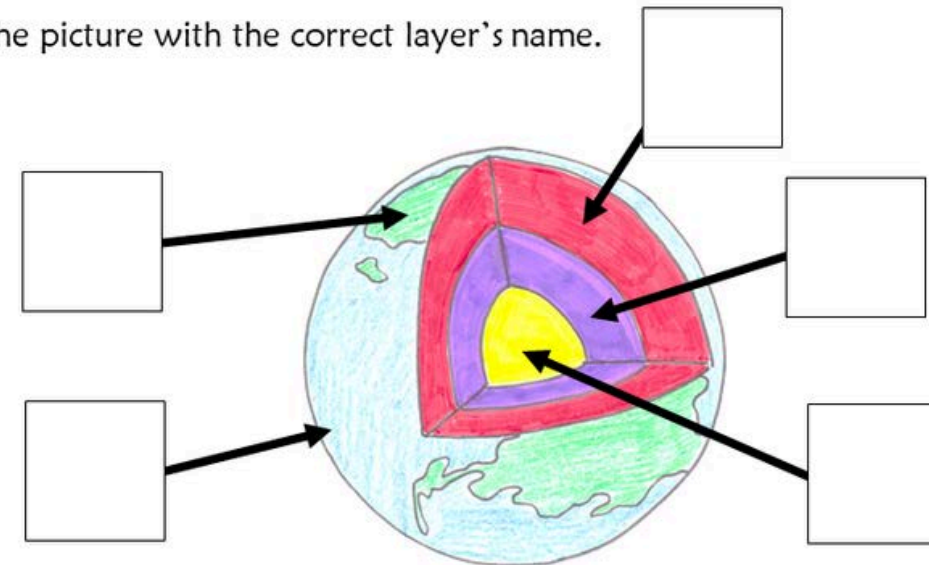
There are labeling activities. Suggestions for differentiation are included.



Use for labeling. Make as many copies as needed.



Match the picture with the correct layer's name.





Each unit has fill-in-the-blank worksheets for review.

## Review sheets

### Hurricanes

1. A  is an example of severe weather.
2. A hurricane has strong  and lots of rain.
3. Hurricanes form over the .
4. Hurricanes need  weather and water to form.
5. The center of the hurricane is called the  of the storm.



### An Eclipse

1. A solar eclipse is when the  blocks the sun from the Earth.
2. When the sun is completely blocked it is a .
3. A solar eclipse happens once every 2 .
4. A lunar eclipse is when the  blocks the sun from the moon.
5. A lunar eclipse can make the sun look , which is why it is called a blood moon.



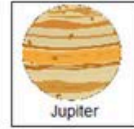
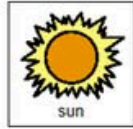
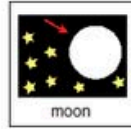
### The Seasons

1. In most parts of the world, there are  seasons.
2. It takes  days for the Earth to orbit around the sun.
3. The Earth is  on its axis.
4. The side of the Earth that is tilted toward the sun is .
5. The side of the Earth that is tilted away from the sun is .

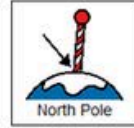
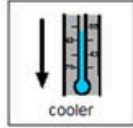
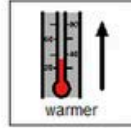




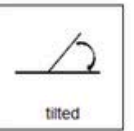
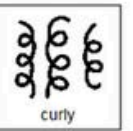
1. The season is determined by the Earth's relationship to the:



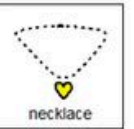
2. The side of the Earth that is closest to the sun is:



3. The Earth does not sit straight, but is:



4. This imaginary line goes through the center of the Earth and has the same weather all year round.



5. How long does it take for the Earth to travel around the sun?

365 days

1 day

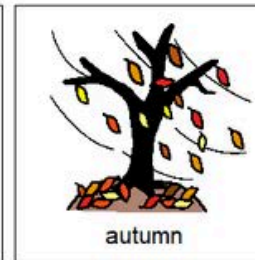
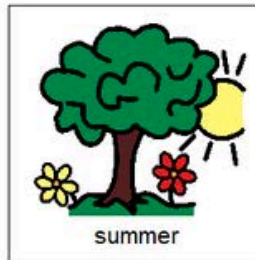
2 years

There is an assessment for each unit that comes in 3 versions.

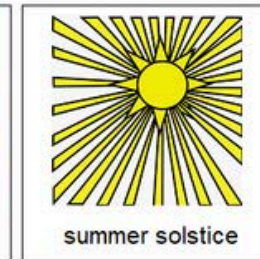
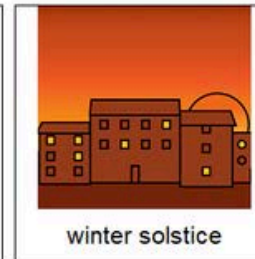
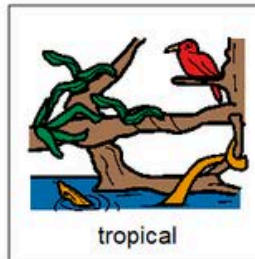
assessment

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

Q 7



Q 8



1. The season is determined by the Earth's relationship to the:

- A. Moon
- B. Sun
- C. Jupiter

2. The side of the Earth that is closest to the sun is:

- A. Warmer
- B. Cooler
- C. North pole

3. The Earth does not sit straight, but is:

- A. Bumpy
- B. Curly
- C. tilted

4. This imaginary line goes through the center of the Earth and has the same weather all year round.

- A. Belt
- B. Equator
- C. necklace

5. How long does it take for the Earth to travel around the sun?

- A. 365 days
- B. 7 days
- C. 2 years

6. When the northern hemisphere is experiencing summer, the southern hemisphere will have:

- A. Dry season
- B. Winter
- C. Autumn



All of these units include digital versions of the activities. These simply require the student to click and drag the answers. There is no drawing or typing involved.

There is a movie version of the book.

There are 2 complete sets of slides. One set is differentiated with color.

Quickly combine slides from the 2 sets to create the perfect combination for each student.

**Make great independent learning centers.**



Watch the movie  
on the Earth,  
Sun and Moon

The movie version  
of the books from  
the unit.

The other type of eclipse that can occur is called a **lunar eclipse**. This is when the Earth is blocking the sun from the moon.



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2:19 / 6:28


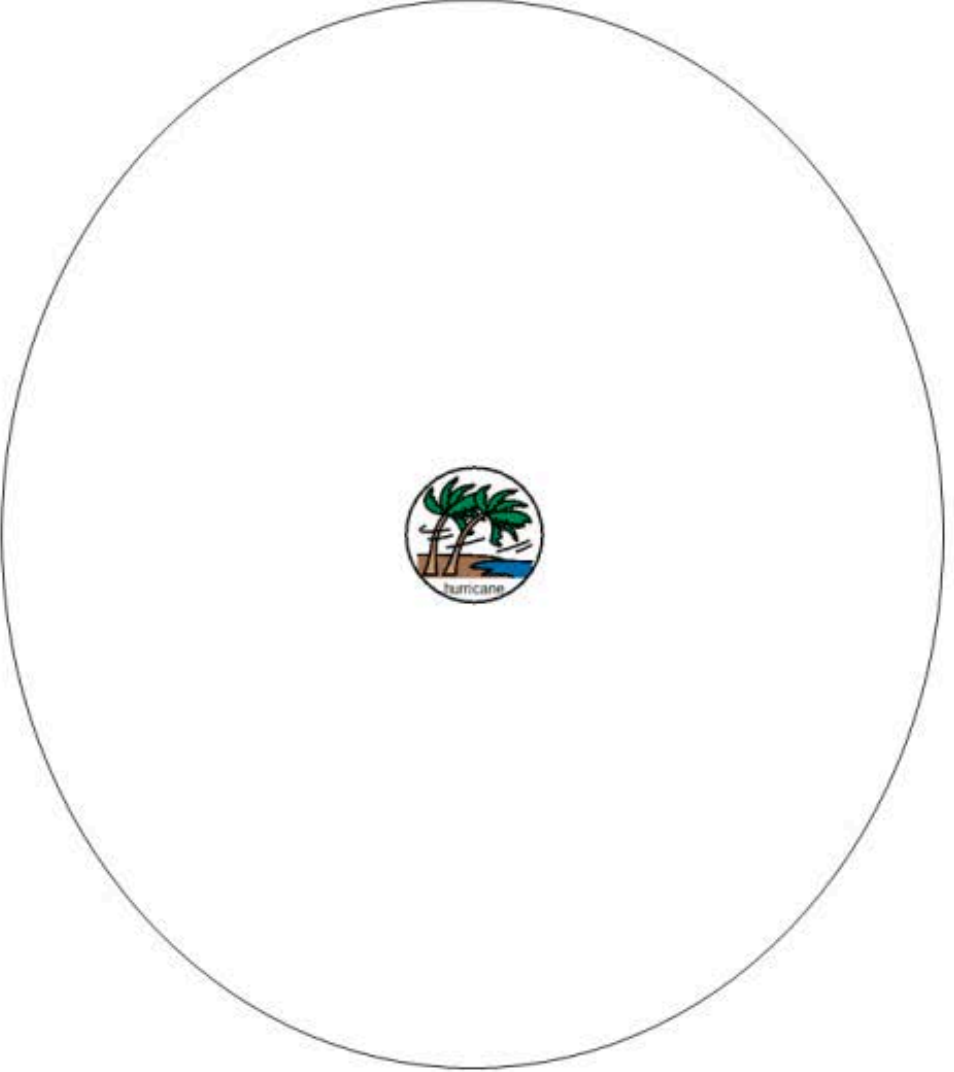




Use for more review.

differentiated

Place pictures in circle map about hurricanes.



eye  
form over ocean  
category  
names  
dangerous  
windy  
flood  
rain  
June - November






























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The digital activities are click and drag.



# Perfect for any learning level.

 Solar eclipse	 Lunar eclipse	Sort the following characteristics into the correct column depending on the type of eclipse. If you are not sure, place it on the middle line.												
		<table border="1"><tbody><tr><td data-bbox="1028 487 1225 690"> moon in middle</td><td data-bbox="1250 487 1447 690"> earth in middle</td><td data-bbox="1472 487 1669 690"> blood moon</td><td data-bbox="1694 487 1891 690"> special glasses</td></tr><tr><td data-bbox="1028 718 1225 921"> safe to look at</td><td data-bbox="1250 718 1447 921"> every 2 years</td><td data-bbox="1472 718 1669 921"> turn day into night</td><td data-bbox="1694 718 1891 921">2x happens twice year</td></tr><tr><td data-bbox="1028 949 1225 1142"> sun blocked from moon</td><td data-bbox="1250 949 1447 1142"> sun blocked from Earth</td><td></td><td></td></tr></tbody></table>	 moon in middle	 earth in middle	 blood moon	 special glasses	 safe to look at	 every 2 years	 turn day into night	2x happens twice year	 sun blocked from moon	 sun blocked from Earth		
 moon in middle	 earth in middle	 blood moon	 special glasses											
 safe to look at	 every 2 years	 turn day into night	2x happens twice year											
 sun blocked from moon	 sun blocked from Earth													

Each unit comes with a set of slides that are differentiated with color.

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**Still have questions?**

**Reach out at [specialneedsforspecialkids@gmail.com](mailto:specialneedsforspecialkids@gmail.com)**

**I will answer your question personally and promptly.**

