

Rocks & Minerals

**For
Special
Ed**



Special Needs for Special Kids



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

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Also included with this unit is a power point show that is narrated and has automatic advancement of slides. Let me know in the feedback if this was helpful 😊

Also included with this unit are detailed lesson plans in a separate file. Let me know in the feedback if this was helpful 😊

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.

Rocks and Minerals

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 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-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/>
2. *Make your 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

Day	Activity	Day	Activity
1	<ul style="list-style-type: none">• Book• Vocab cards introduction• Circle map	8	<ul style="list-style-type: none">• Book• Vocab cards cut and paste• Word search
2	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity	9	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
3	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity	10	<ul style="list-style-type: none">• Assessment
4	<ul style="list-style-type: none">• Book• Vocab cards activity• Chalk painting		
5	<ul style="list-style-type: none">• Book• Vocab cards activity• Cookie experiment		
6	<ul style="list-style-type: none">• Book• Vocab cards activity• My Rock Journal		
7	<ul style="list-style-type: none">• Book• Vocab cards cut and paste• Sudoku puzzle		

The lesson plans contain:

A quick look at what you will do each day

Day 2

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	<ul style="list-style-type: none">• Read through the story, asking lots of questions• Continue to make connections between book and vocabulary board	<ul style="list-style-type: none">• Book• Vocabulary board
Vocabulary cards Spy Game (10 minutes)	<ul style="list-style-type: none">• Determine how many cards your students can handle in front of them. This can vary, some students may be able to have all the cards, so may only be able to handle a field of 3-5• Discuss relevant points on the card<ul style="list-style-type: none">◦ You can also play this game in this manner having them find the symbol on their vocabulary board	<ul style="list-style-type: none">• Vocabulary cards (student set and teacher set)• Vocabulary board
Circle map review (5 minutes)	<ul style="list-style-type: none">• Review the circle map completed yesterday	<ul style="list-style-type: none">• Circle map from yesterday
Sorting (10 minutes)	<ul style="list-style-type: none">• Students will do one of the sorting activities.• There are 2 that go with the easier version and one that is for more advanced.• Use color coding if needed• Make connections to the book as necessary	<ul style="list-style-type: none">• Sorting activity• Scissors• glue
Sharing (10 minutes)	Each student shares their finished activity with the group using the communication method of their choice	<ul style="list-style-type: none">• Completed activity• Communication devices

The lesson plans contain:

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!!



Rocks are made up of smaller particles called minerals.



Christa Joy, Special

Many roads are made from rocks



Christa Joy, Special Needs for Special Kids

There are 2 books with this unit. This one is a simple version with less detail.

Both come in pdf versions as well as a voice recorded powerpoints (so you don't have to print it out.)

Igneous rocks come from lava that has flowed from a volcano and then cooled.



Christa

Sedimentary rocks start off as sediment that hardens over time into a rock.

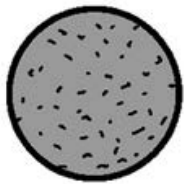


Christa Joy, Special Needs for Special Kids

There is also a version that is more detailed and goes into the 3 types of rocks.

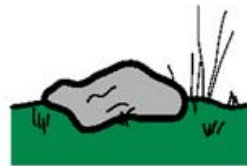
igneous rock

Rock formed from cooled lava. Lots of holes and light.



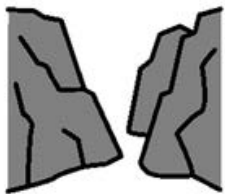
sedimentary rock

Rock formed from sand, mud and other sediment



metamorphic rock

Rock formed under the Earth from heat and pressure.



lava

Liquid rock that comes from a volcano and cools into igneous rock



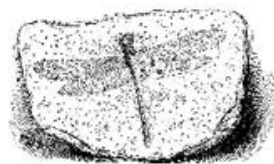
sediment

Small pieces of dirt and stones that gather in lakes and rivers



fossil

Image left in a rock



minerals

Small pieces that can be found inside a rock. They are often different colors.



There are 7 vocabulary cards that come in color and black and white.

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

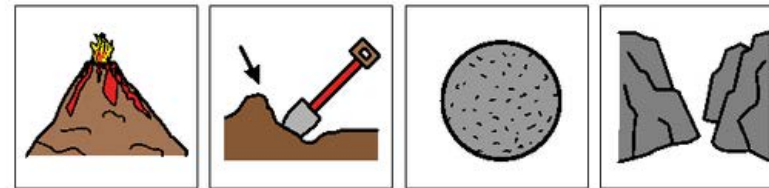
igneous rock

Rock formed from cooled lava. Lots of holes and light.



sedimentary rock

Rock formed from sand, mud and other sediment



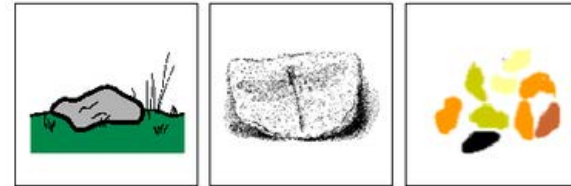
metamorphic rock

Rock formed under the Earth from heat and pressure.



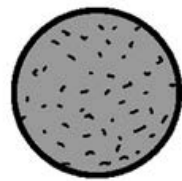
lava

Liquid rock that comes from a volcano and cools into igneous rock

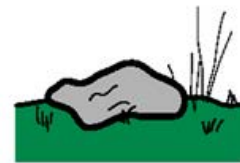


On days 7&8 there is an activity where students will match either the picture to the definition or the definition to the picture (harder).

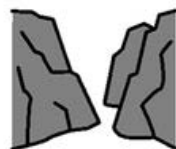
igneous rock



sedimentary rock



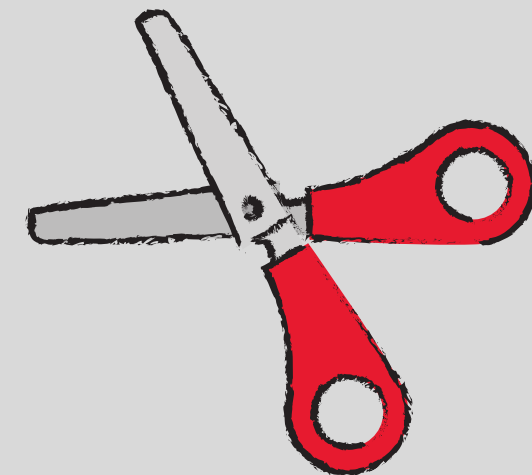
metamorphic rock

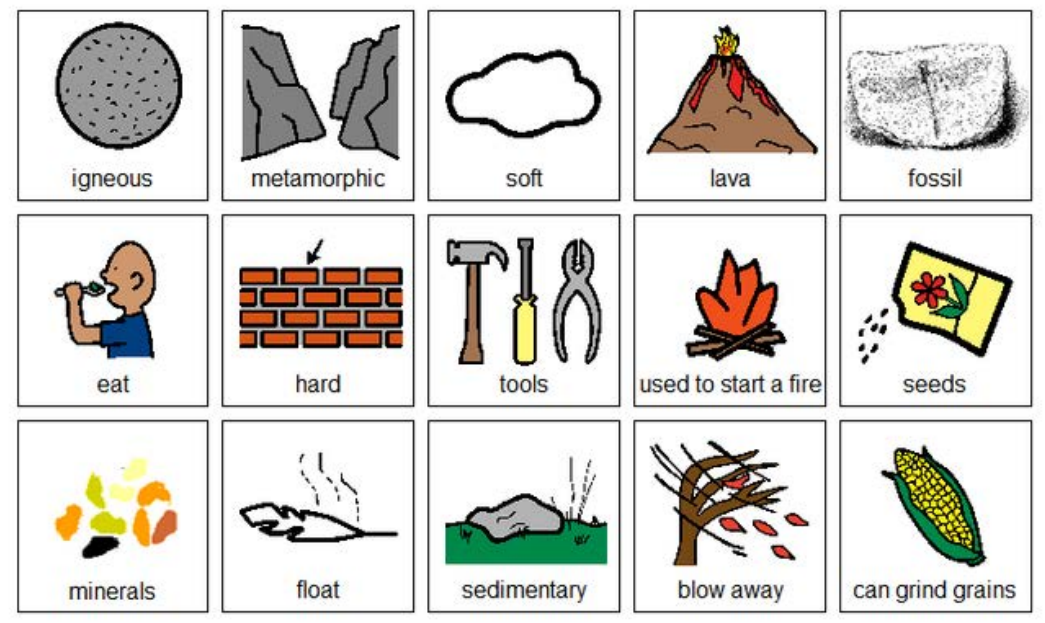
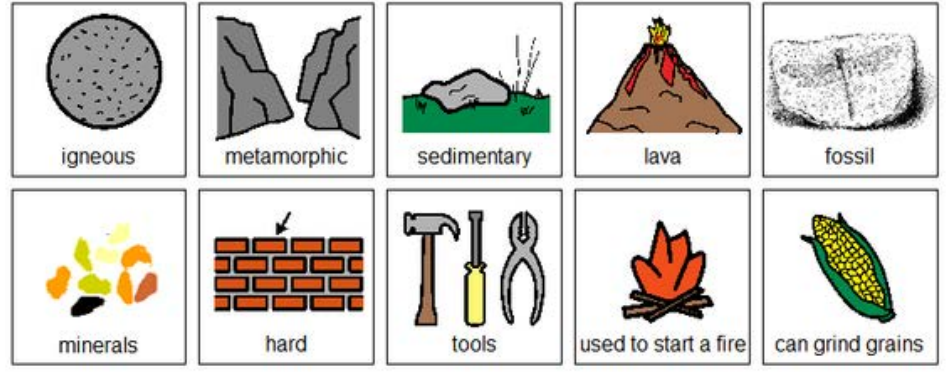
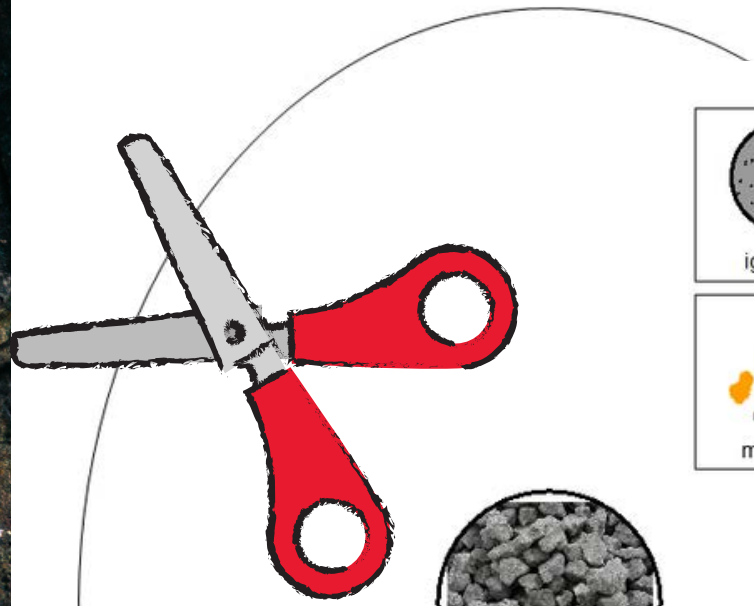


lava



Rock formed from sand, mud and other sediment	Image left in a rock
Rock formed under the Earth from heat and pressure.	Liquid rock that cools and cools into igneous rock
Liquid rock that comes from a volcano and cools into igneous rock	Rock formed from cooled lava with lots of holes and light
Image left in a rock	







There is a circle map, that is a general review of rocks and minerals.

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





Activity 1: Sorting rocks vs not rocks.

Top row:  

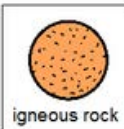
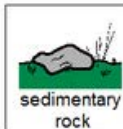
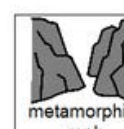

Grid of 20 items for sorting:

Activity 2: Sorting rocks vs not rocks.



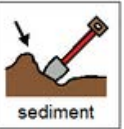


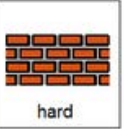
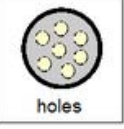
Top row:  

Grid of 20 items for sorting:

Activity 3: Sorting types of rocks.

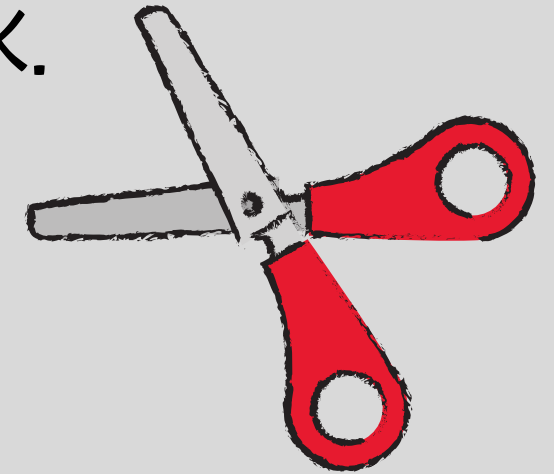
Top row:    

Grid of 10 items for sorting:



There are 3 sorting activities. 2 are easier (rocks vs not rocks) and the last one deals with characteristics of of each type of rock.



Chalk Painting

Long ago people crushed rocks to obtain colors for paints. Chalk is a type of rock called limestone. Of course, today it goes through a lot of processing compared to centuries ago. Let the students handle and describe the piece of chalk in the terms of how it relates to what you have been learning about rocks and minerals. Conduct the following activity to allow students to create their own painting using the chalk.

Materials:

- white chalk
 - glue-water solution (1 tbsp glue with 1 tbsp water)
 - newspaper
 - black construction paper
 - paintbrush
 - 1 paper cup
 - 1 plastic spoon
 - Plastic mallet or hammer
-
- Step 1: Put your chalk inside the plastic bag, flatten the bag to remove the extra air, and close the bag securely.
 - Step 2: Place the bag in between layers of newspaper for cushioning.
 - Step 3: Use a hammer to carefully crush the chalk into a powder.
 - Step 4: Pour the chalk powder into the paper cup and add the glue solution. Mix thoroughly with a spoon.
 - Step 5: Use the chalk paint and the paintbrush to create a picture on the black construction paper

Christa Joy, Special Needs for Special Kids

My Rock and Minerals

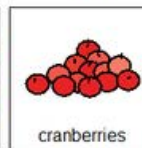
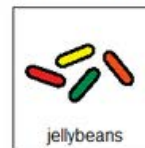
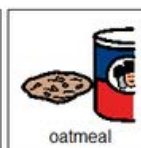
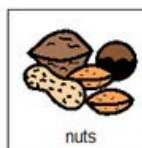
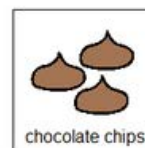
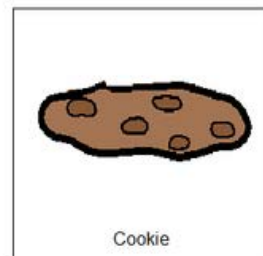
The following was the rock:



I found the following minerals in my rock:

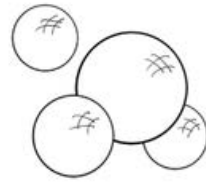


Use from the following pictures to complete the previous page or draw your own pictures.



There are 2 hands-on activities. One is doing a chalk painting and one is an experiment with cookies.

Fizzy Findings



When I added vinegar to my rock,

it    make bubbles.

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Attraction










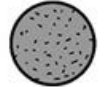

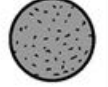


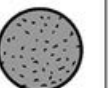






By using a magnet, I found out

rock    magnetic.

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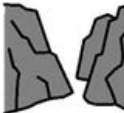

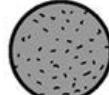





Students will fill out a rock journal noting features of a rock they find.

Rocks & Minerals

		 fossil		 metamorphic	
 lava				 fossil	 minerals
	 lava		 metamorphic	 igneous	
	 fossil	 igneous	 minerals		
 fossil	 igneous	 lava	 sedimentary		
	 metamorphic		 fossil	 lava	 igneous

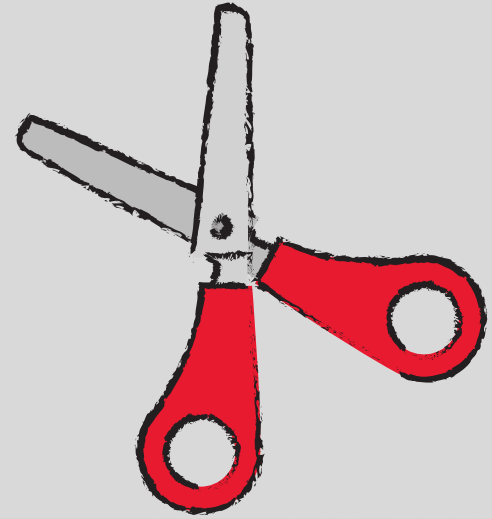


Rocks and Minerals

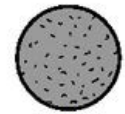
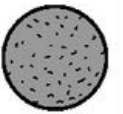
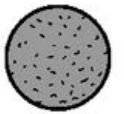

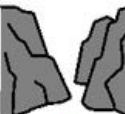



 metamorphic			
 minerals	 igneous	 metamorphic	 sedimentary
		 sedimentary	
 sedimentary		 minerals	

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

There are 2 versions plus answer keys.



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

 igneous	 igneous	 igneous	 metamorphic
 metamorphic	 sedimentary	 minerals	 minerals

Rocks and Minerals

HKPMCJORMKFGZYH
VZMYPJFVOLCANOD
EXEBCJCOGHDBVIQ
FZTILWHGBOUCKZF
KNAGCSIQGOBFUEO
HFMNDEGZFRDQWYA
YMOECDHPMRQDWAV
EARONIBRVCFJAAV
SGPUSMSQJJOZSGK
ZTHSVEDILPSQPBI
EFIMINERALSFJRK
HPCQVTMFVAIQGSJ
AAEPXAUFACLWKIY
FSAHERTGRFTACLO
IFPWPYZOLYRVNMO

sedimentary metamorphic minerals igneous
volcano fossil lava

Rocks and Minerals

HKPMCJORMKFGZYH
VZMYPJFVOLCANOD
EXEBCJCOGHDBVIQ
FZTILWHGBOUCKZF
KNAGCSIQGOBFUEO
HFMNDEGZFRDQWYA
YMOECDHPMRQDWAV
EARONIBRVCFJAAV
SGPUSMSQJJOZSGK
ZTHSVEDILPSQPBI
EFIMINERALSFJRK
HPCQVTMFVAIQGSJ
AAEPXAUFACLWKIY
FSAHERTGRFTACLO
IFPWPYZOLYRVNMO

sedimentary metamorphic minerals igneous
volcano fossil lava

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.

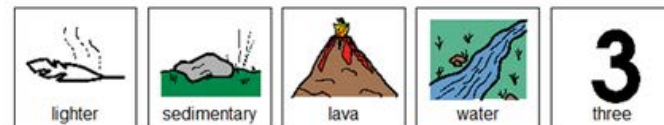
Rocks

1. comes out of volcanoes to form rocks.
2. When certain dries out, it can become a rock.
3. Even on the beach can be made into a rock.
4. People can make rock from that dries.
5. Rocks are made up of smaller particles called .



3 Types of Rocks

1. There are main types of rocks.
2. Igneous rock comes from that has cooled.
3. Igneous rocks are because they are filled with holes.
4. Sand, soil and small rocks fuse together to form rocks.
5. Sedimentary rocks are often formed near bodies of .



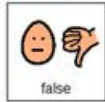
Close worksheets are a great informal assessment. This unit has 10 questions that are a review of the easier book and 10 questions that focus more on the types of rocks.

Answer key included.

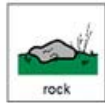
Beginner

Version 1

1. True or False. Rocks are found all around us.



2. What is formed from cooled lava?



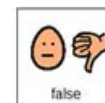
3. Found on the beach, this can be compressed to form rocks.



4. What are the smaller particles called that make up a rock?



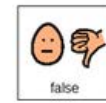
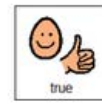
5. True or False. Buildings can be made from rocks.



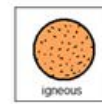
Advanced

Version 1

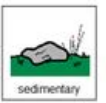
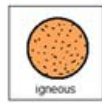
1. True or False. Fossils are a type of rock.



2. Which type of rock is formed from cooled lava?



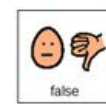
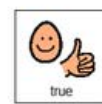
3. Which type of rock is formed from the sediment found in lakes and rivers?



4. Where are metamorphic rocks formed?



5. True or False. Igneous rocks are lighter due to the air holes in the rock.



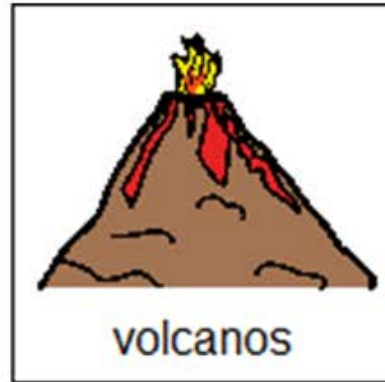
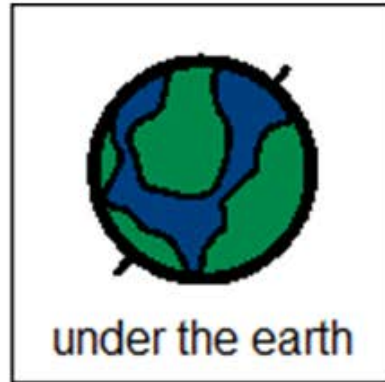
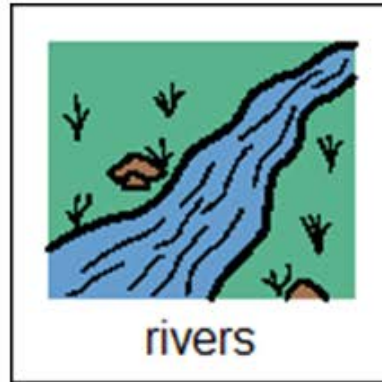
FINALLY the assessment!! There are actually 2 assessments in this unit. One focuses on the easier version of the book. The other focuses on the 3 types of rocks.

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

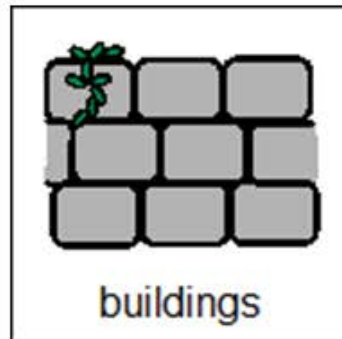
Answer key included.

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

Q 4



Q 6



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. True or False. Rocks are found all around us.
 - A. True
 - B. False
 - C. I don't know
2. What is formed from cooled lava?
 - A. Grass
 - B. Rocks
 - C. flowers
3. Found on the beach, this can be compressed to form rocks.
 - A. Sand
 - B. Leaves
 - C. Feathers
4. What are the smaller particles called that make up a rock?
 - A. Minerals
 - B. Feathers
 - C. confetti
5. True or False. Buildings can be made from rocks.
 - A. True
 - B. False
 - C. I don't know
6. Circle all the uses of rocks in the past.

A. Sharpen tools	D. Start fire
B. Sew clothes	E. Grind corn
C. Buildings	F. Sleep on

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.



[Click Here to read more!!](#)

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) come in color and black and white.