

ROZZY READERS

**GEOLOGIST:
ARCHES NATIONAL PARK**

Section 1: Geologist

Geologist



Parks in the United States that have been created by and are protected by the government.

National Parks



National parks are parks in the United States that have been created by the government.

The government created national parks so that it could keep the plants and animals that live in them safe.

Arches National Park



A national park in the state of Utah that is famous for having over 2,000 natural made arches.

Career Highlight: Geologist

A **geologist** is a scientist who studies the Earth.

They study how the Earth was made, what it is made of, and how it has changed over time.

Geologists learn about minerals, fossils, landforms, rocks and the layers of the Earth's surface.

At Arches National Park, geologists watch the arches to make sure they are safe and will not fall on any visitors.



Content Check: Geologist

Below are three sentences. If the sentence is true, write a "T" on the line next to it. If the sentence is false, which means it is not true, write a "F" on the line next to it.

1. A geologist is a scientist who studies Earth. _____

2. Geologists take care of the plants in the park. _____

3. A geologist might study how Earth was made. _____

Section 2:

Arches National Park

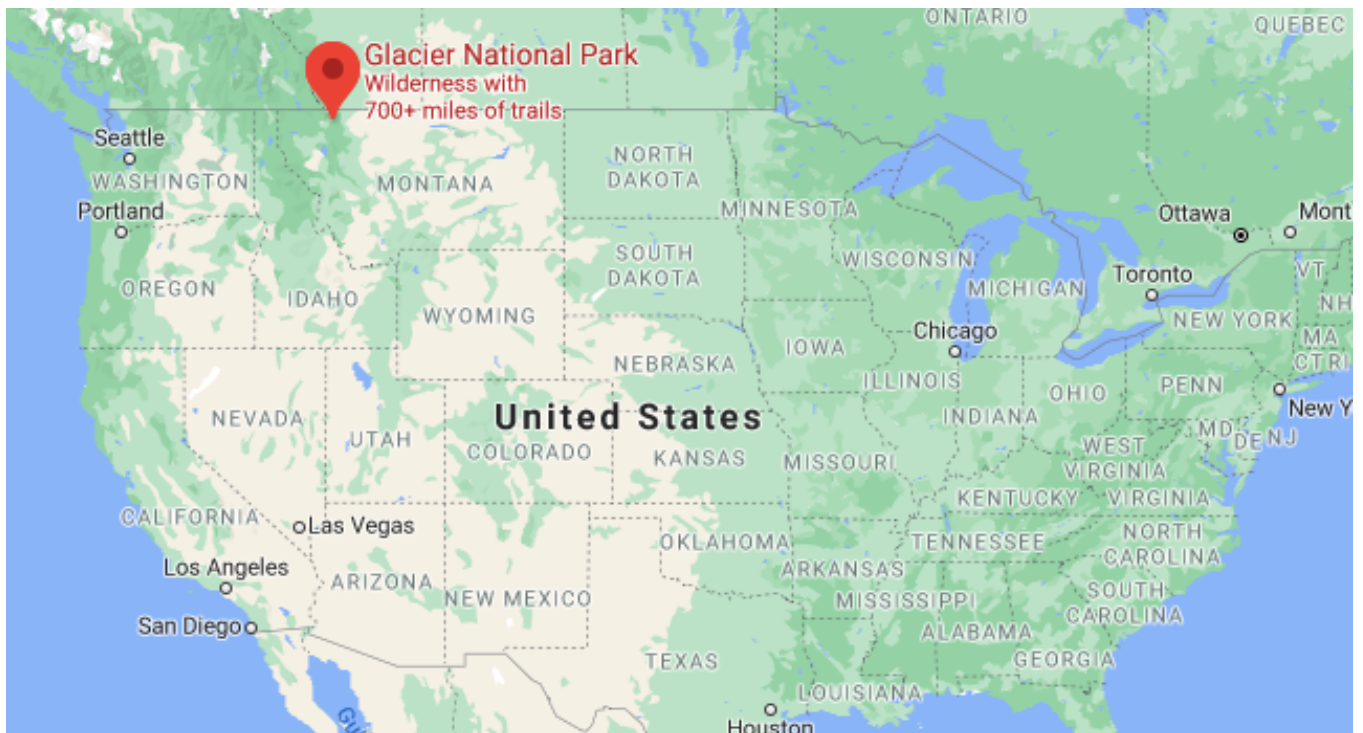
Imagine that you just got a job as a geologist at Arches National Park. Learn about Arches National Park on the next slides to prepare you for your role.

Learn:

Arches National Park

LOCATION:

Arches National Park is located in the state of Utah.



Arches National Park became a park in 1971.

Arches National Park is special because it has so many natural stone arches. There are over 2,000 arches in the park!

The park is located in a desert called the Colorado Plateau.

Geologists in Arches National Park study how the arches were made. They also make sure they are safe and won't fall while visitors are there.



HISTORY:

- Ancestral Puebloans lived in the area two thousand years ago.
- After the ancestral Puebloan people left, nomadic Shoshonean people like the Ute and Paiute lived there. They were still there when the first Europeans came.
- In the 1880s and 1890s ranchers and farmers started living in the area.
- In 1911, Loren Taylor began writing newspaper articles about the beauty of the arches. These articles made others want to go and visit the arches.
- Arches National Park became a park in 1971.



Art carved into the rock by people who lived long ago.

PLANTS:

Some plants that you might see in Arches National Park are the desert paintbrush, prickly pear cactus, or monkey flower.



Biological Soil Crust



Desert Paintbrush



Prickly Pear
Cactus



Monkey Flower

ANIMALS:

Desert animals have found ways to help them survive in Arches National Park. For example, many animals in Arches are active at night when it is cooler. Kangaroo rats, bobcats, bats, and owls are all animals who are active in the park at night.



Kangaroo Rats



Bat



Bobcats

WHEN YOU VISIT TODAY

Today, people visit Arches to participate in a variety of outdoor activities. In Arches, visitors can camp, hike, go rafting, and fish.

Many visitors come to Arches National Park to see the amazing views that the park has to offer.



Content Check:

Arches National Park

Use the word bank to fill in the blanks in the paragraph about Arches National Park.

Word Bank

2,000

desert
paintbrush

Utah

night

arches

1. Arches National Park is located in _____.
2. Many animals who live in Arches come out at _____ to stay cool.
3. There are over _____ arches in the park!
4. The _____ is a plant that grows in Arches National Park.
5. Arches National Park is famous for how many natural _____ are in the park.

Section 3: Math Practice

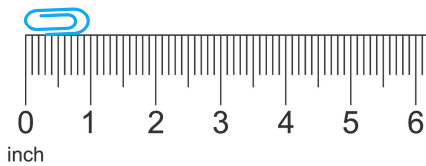
Units of Measurement for Length

Geologists study how the Earth was made, what it is made of, and how it has changed over time. Imagine that you are a geologist at Arches National Park. You are learning more about the rocks at the park by measuring them.

Begin by learning about three units of measurement that you can use to measure length. **Length** is the distance between two points.

Inch

About the size of one paperclip

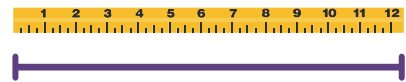


Use to measure objects like:



Foot

About the length of a ruler

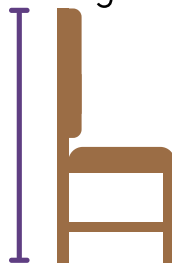


Use to measure objects like:

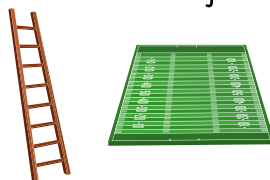


Yard

About the height of a chair

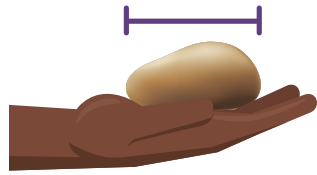


Use to measure objects like:



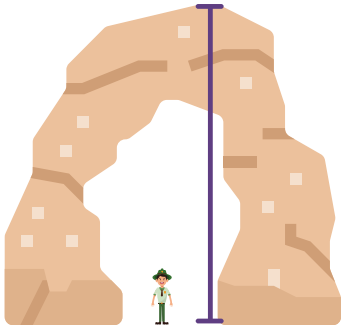
Decide if you would use **inches**, **feet**, or **yards** to measure each object. Write the unit of measurement you should use on the line underneath the object.

Look at the example below before you get started.



Inches

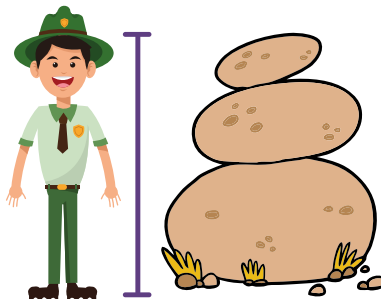
You would measure a rock that fits in your hand using inches.

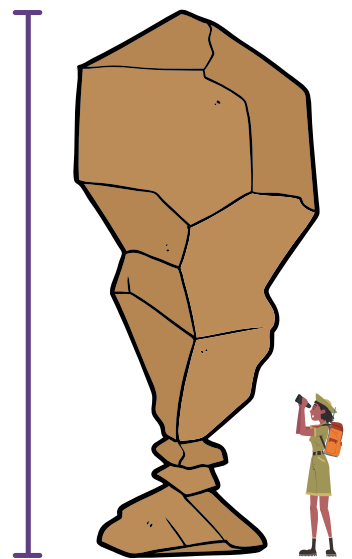












Section 4: ELA Practice

Using End Punctuation

Geologists often have to write reports about what they have discovered. They must use their writing skills to make sure that their reports make sense and are easy for others to read. Read the next slide to learn about using the correct end punctuation when writing.

Punctuation marks are special marks that are used in writing. Look at the three punctuation marks that are used at the end of sentences.

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Period

Goes at the end of a sentence that tells a fact or gives information.



I am seven years old.

My favorite food is a chocolate chip cookie.

!

Exclamation Point

Goes at the end of a sentence that shows excitement.



I can't wait for my birthday!

We had the best tacos for dinner!

?

Question Mark

Goes at the end of a sentence that asks a question.



How old are you?

Do you want to play on the slide at recess?

Write the correct punctuation mark at the end of each sentence using a period, exclamation point, or a question mark. The first one has been done for you.

. ! ?

1. There 483 different kinds of plants in that live in Arches National Park.
2. Arches National Park is the best park in the world
3. Have you ever been to a national park before
4. Arches became a national park in 1971
5. What would you do if you went to Arches National Park
6. I can't wait to see the arches
7. Geologists in Arches National Park study how the arches were made