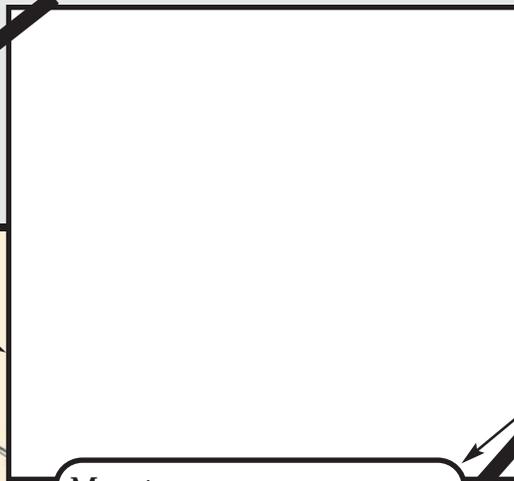


This journal belongs to:

**FLAGSTAFF NATIONAL MONUMENTS**

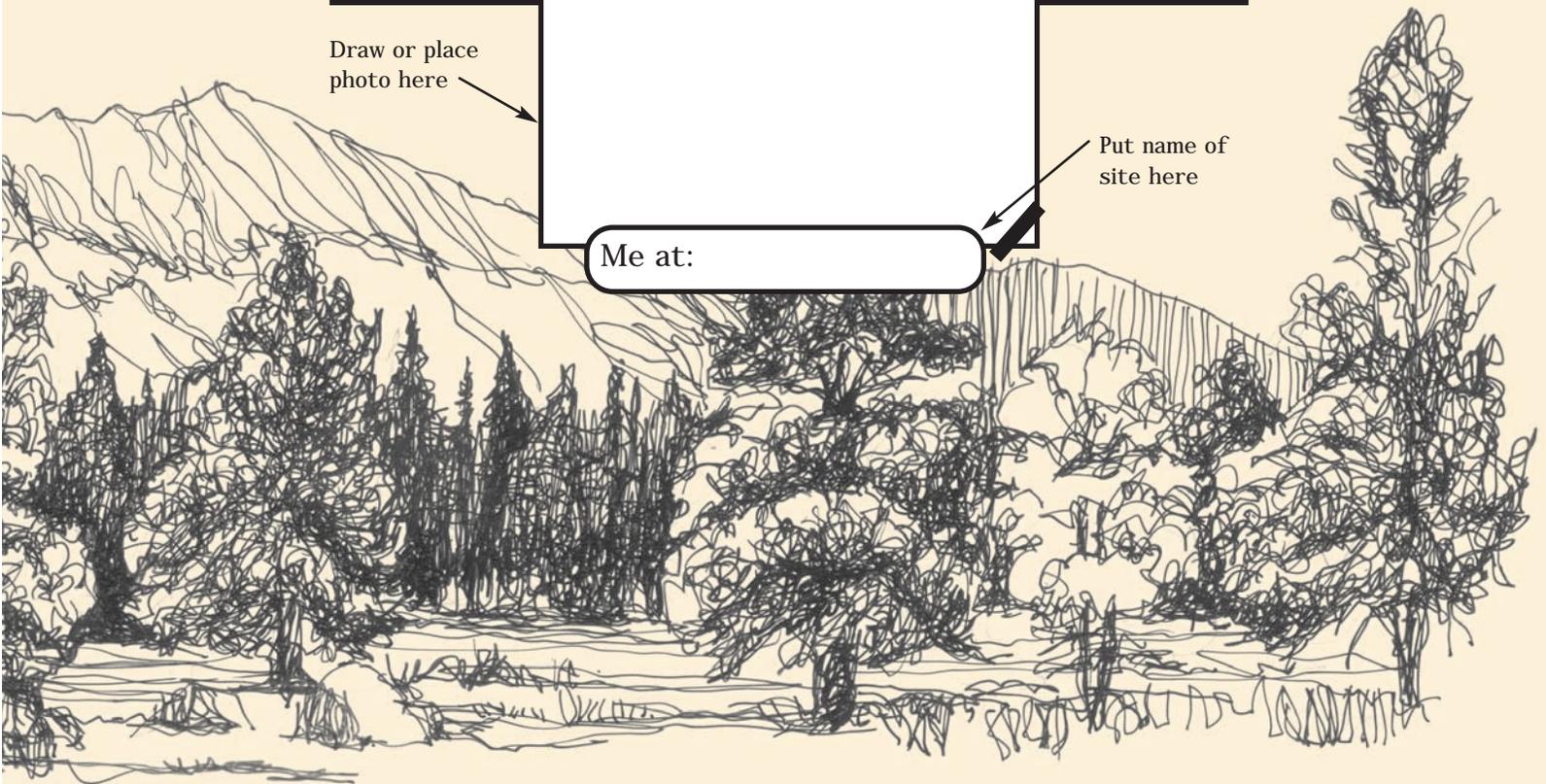
Wupatki,  
Sunset Crater Volcano,  
Walnut Canyon

Draw or place  
photo here



Put name of  
site here

Me at:



# Becoming a Naturalist

## WHO IS A NATURALIST?

A naturalist is anyone who looks closely at nature to learn about the world. Today YOU will be a naturalist, observing the world around you.

## WHAT IS A FIELD JOURNAL?

Naturalists use field journals to record what they see, hear, smell, think, and feel. This journal is for you to record your observations. When you're finished, take it home to remember your trip.



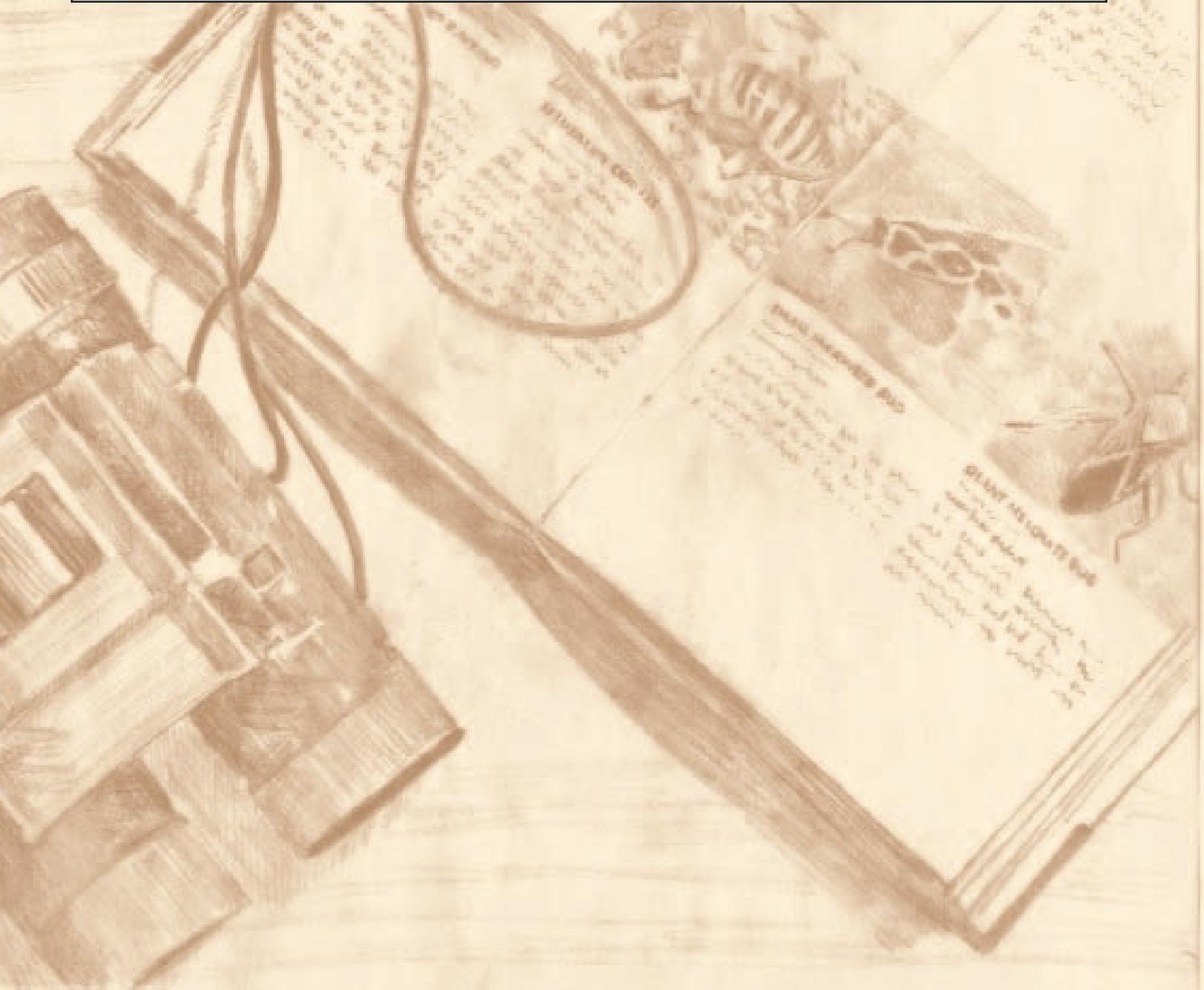
## NATURALIST'S TOOLS

	Thermometer
	Compass
	Binoculars
	Magnifying lens (Hint: look between the thermometer and the compass)
	Map of the park, showing designated trails and interpretive exhibits
	Pencils, sharpener, and eraser
	Colored pencils
	Clipboard and ruler
	Laminated bird card
	Audubon Field Guide book
	String

# A NATURALIST'S PLEDGE

I promise to:

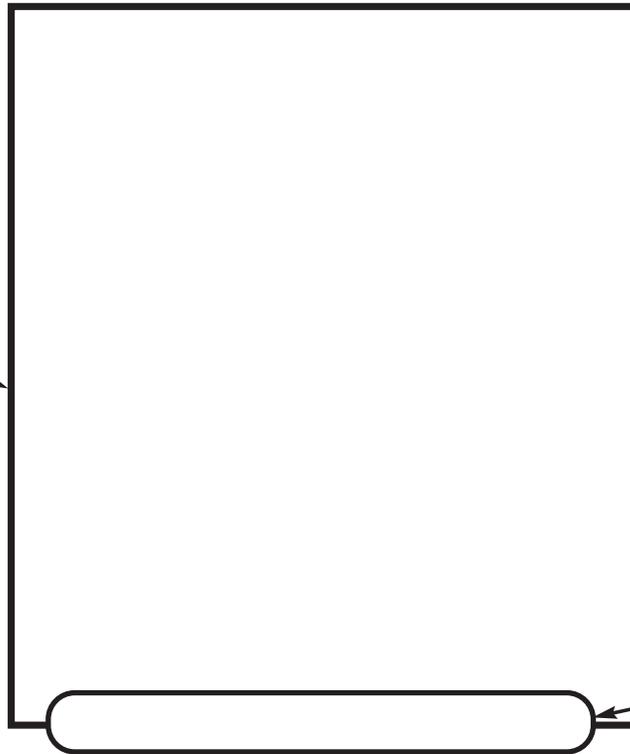
- use the tools in my Discovery Pack to look at everything, but damage nothing.
- remember that all rocks, leaves, flowers, pottery pieces, and other objects are protected. I will leave them for others to enjoy.
- stay on designated trails. If I want to bring something closer, I will use my binoculars.
- enjoy wildlife at a distance. I won't try to touch or feed the animals.
- be respectful. I won't sit or climb on ancient walls, throw rocks, or disturb others.
- be careful. I will stay away from canyon rims and dropoffs, and watch for sharp or spiny plants.
- watch the weather. I will carry water and respect the sun. I will not stay out in lightning storms.



# Getting Started

At the start of a trip in the field, naturalists often make a prediction (a hypothesis.) Next they collect data to prove their hypothesis true or false. Predict what you might see today.

Draw a picture or write the name of a bird or animal you predict lives here.



Put the animal's name here

Imagine that you are this animal. Where would you live (nest in a tree, den in the ground, etc.)?

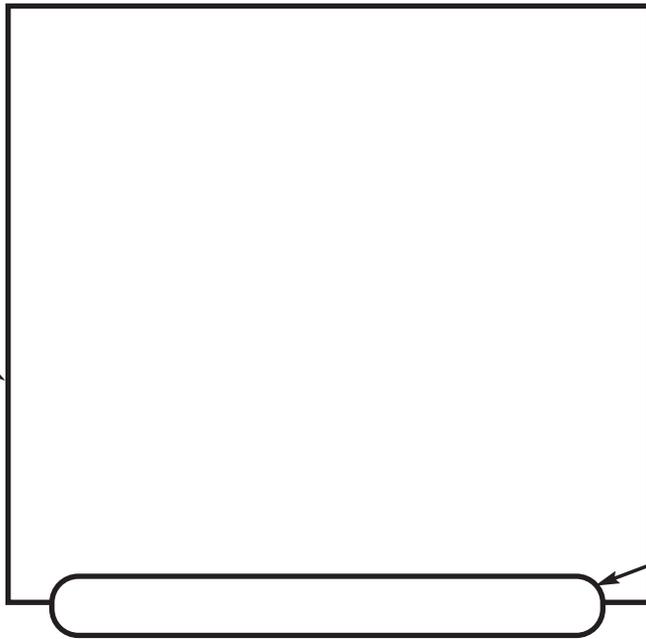
Would you be out and about on a day like today (consider temperature, wind, season) or would you stay under cover?

What kind of food would you look for?

Are you active during the day (diurnal) or at night (nocturnal)?

Do you hide from people? Or are you easy to see?

Draw a picture  
or write the  
name of a  
plant you  
predict lives  
here.



Put the  
plant's  
name here

Imagine that you are this plant. Where do you grow?

Do you have leaves or flowers this time of year?

How much water do you need?

Do you attract bees or butterflies? Do birds or animals eat your leaves or fruit?

Are you a visible part of the landscape? Or do most people pass you by?

# Recording Your Sightings

Circle the names of some critters and plants you think you might see today. Add a check in front of those that you observe.  
(Use the Audubon Field Guide to learn more.)

## TODAY'S WEATHER CONDITIONS

Date \_\_\_\_\_ Time \_\_\_\_\_

Location:  Walnut Canyon,  Wupatki,  
 Sunset Crater Volcano,  other

Temperature \_\_\_\_\_ (in the sun),  
\_\_\_\_\_ (in the shade)

What color is the sky today?  
\_\_\_\_\_

What kind(s) of clouds can you see?

- cumulus
- towering cumulus
- cumulonimbus
- cirrus
- altostratus
- lenticular
- mammatus
- virga

(See pages 66-67 of the Audubon Field Guide)

The wind is blowing from  
\_\_\_\_\_ (compass direction)

Notes:

MAMMALS		WALNUT CANYON	SUNSET CRATER VOLCANO	WUPATKI
<input type="checkbox"/>	Bobcat			
<input type="checkbox"/>	Coyote			
<input type="checkbox"/>	Elk			
<input type="checkbox"/>	Mule deer			
<input type="checkbox"/>	Gray fox			
<input type="checkbox"/>	Blacktailed jackrabbit			
<input type="checkbox"/>	Mountain lion			
<input type="checkbox"/>	Porcupine			
<input type="checkbox"/>	Abert's squirrel			
<input type="checkbox"/>	Striped skunk			
<input type="checkbox"/>	Desert cottontail			
<input type="checkbox"/>	Kangaroo rat			
<input type="checkbox"/>	Pronghorn			
<input type="checkbox"/>	Javelina			
<input type="checkbox"/>	Golden-mantled ground squirrel			
<input type="checkbox"/>	Rock squirrel			



Bobcat



Common raven

<b>BIRDS</b>		WALNUT CANYON	SUNSET CRATER VOLCANO	WUPATKI
	Northern flicker			
	Steller's jay			
	Pinyon jay			
	Scrub jay			
	Common raven			
	Pygmy nuthatch			
	House sparrow			
	Mourning dove			
	Rufous hummingbird			
	Black-chinned hummingbird			
	Broadtailed hummingbird			
	Robin			
	Western bluebird			
	Dark-eyed junco			
	Red-tailed hawk			
	American kestrel			
	Golden eagle			
	Rock wren			
	Canyon wren			
	Northern mockingbird			
	Black-throated sparrow			
	Turkey vulture			
	Violet-green swallow			

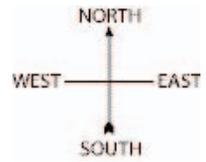
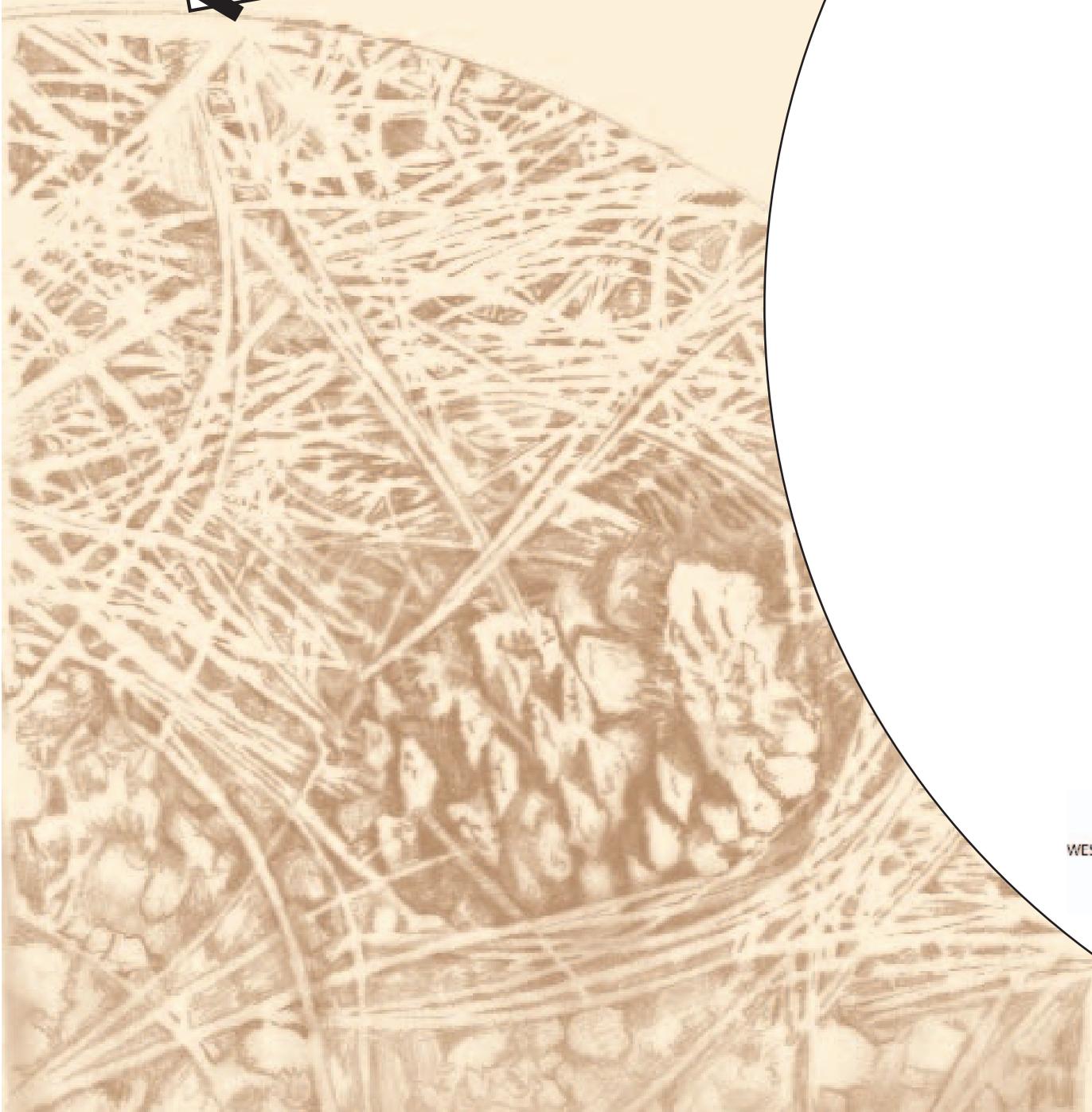
<b>PLANTS</b>		WALNUT CANYON	SUNSET CRATER VOLCANO	WUPATKI
	Ponderosa pine			
	Pinyon pine			
	Juniper			
	Aspen			
	Gambel oak			
	Arizona walnut			
	Douglas-fir			
	Apache plume			
	Mullein			
	Rabbitbush			
	Pink penstemon			
	Gilia			
	Paintbrush			
	Sunflower			
	Yucca			
	Mormon tea			
	Sagebrush			
	Globe mallow			
	Prince's plume			
	Locoweed			

<b>REPTILES</b>		WALNUT CANYON	SUNSET CRATER VOLCANO	WUPATKI
	Collared lizard			
	Horned lizard			
	Gopher snake			

# Mapping in Miniature

Lay the string in a circle. Observe all living and non-living things within your circle. Draw a map of what you see.

- rocks
- living plants
- cinders
- pine needles
- seeds
- cones
- insects



# DISCOVERING THE ENVIRONMENT

TAKE NOTES ON THE ENVIRONMENT AROUND YOU

What do you smell?

What shapes do you see?

What colors do you see?

Other notes

# Listening to the World

Stop where you are and listen for one minute. What do you hear? Each time you hear a new sound, lift a finger. How many different sounds did you hear? \_\_\_\_\_

Close your eyes. Do you hear other sounds? \_\_\_\_\_

How many? \_\_\_\_\_

Did you hear more with your eyes closed? \_\_\_\_\_

What's the most beautiful sound you hear? \_\_\_\_\_

How do you spell this sound? \_\_\_\_\_

What's the strangest sound? \_\_\_\_\_

Think about the quietest place you've ever been. How does the sound here compare? \_\_\_\_\_

How do you imagine it sounded here 800 years ago? \_\_\_\_\_

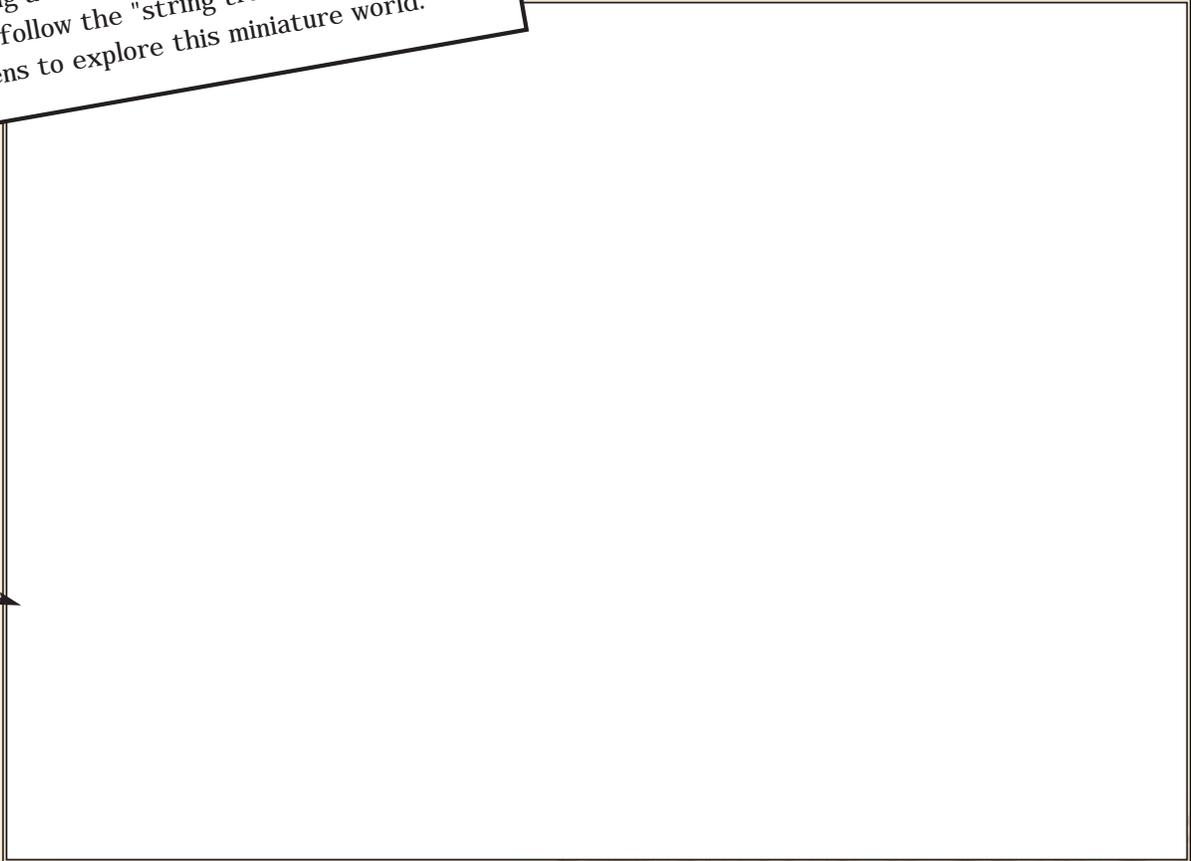
What might you have heard? (For example, a volcano erupting, people grinding corn, children playing) \_\_\_\_\_

How do you think it will sound here 100 years from now? \_\_\_\_\_

# Taking a Microhike

With the string and magnifier lens from the Discovery Pack, find an interesting piece of ground. Lay the string across it. With your eyes close to the ground, follow the "string trail." Use the magnifier lens to explore this miniature world.

Draw a picture or write a story about your microhike.



**WHAT WOULD IT BE LIKE TO BE 1 INCH TALL, WALKING ALONG THE STRING?**

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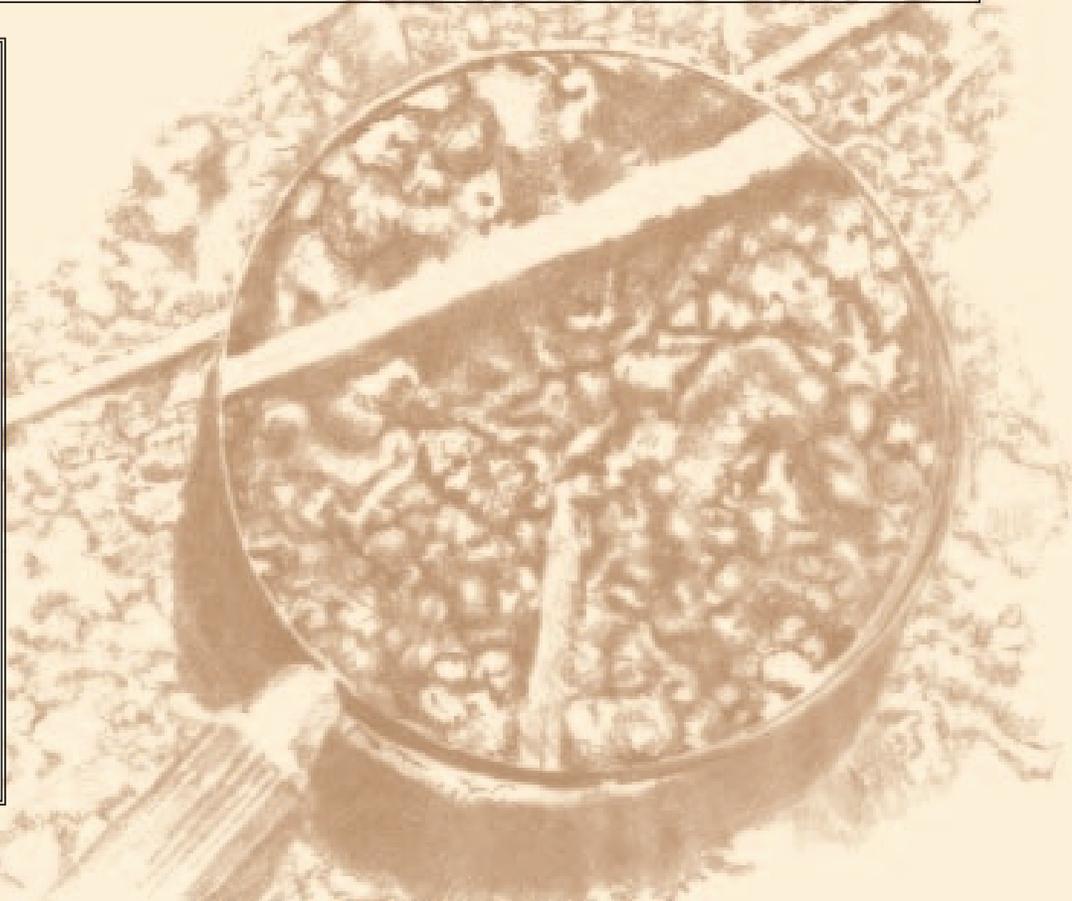
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# scavenger Hunt

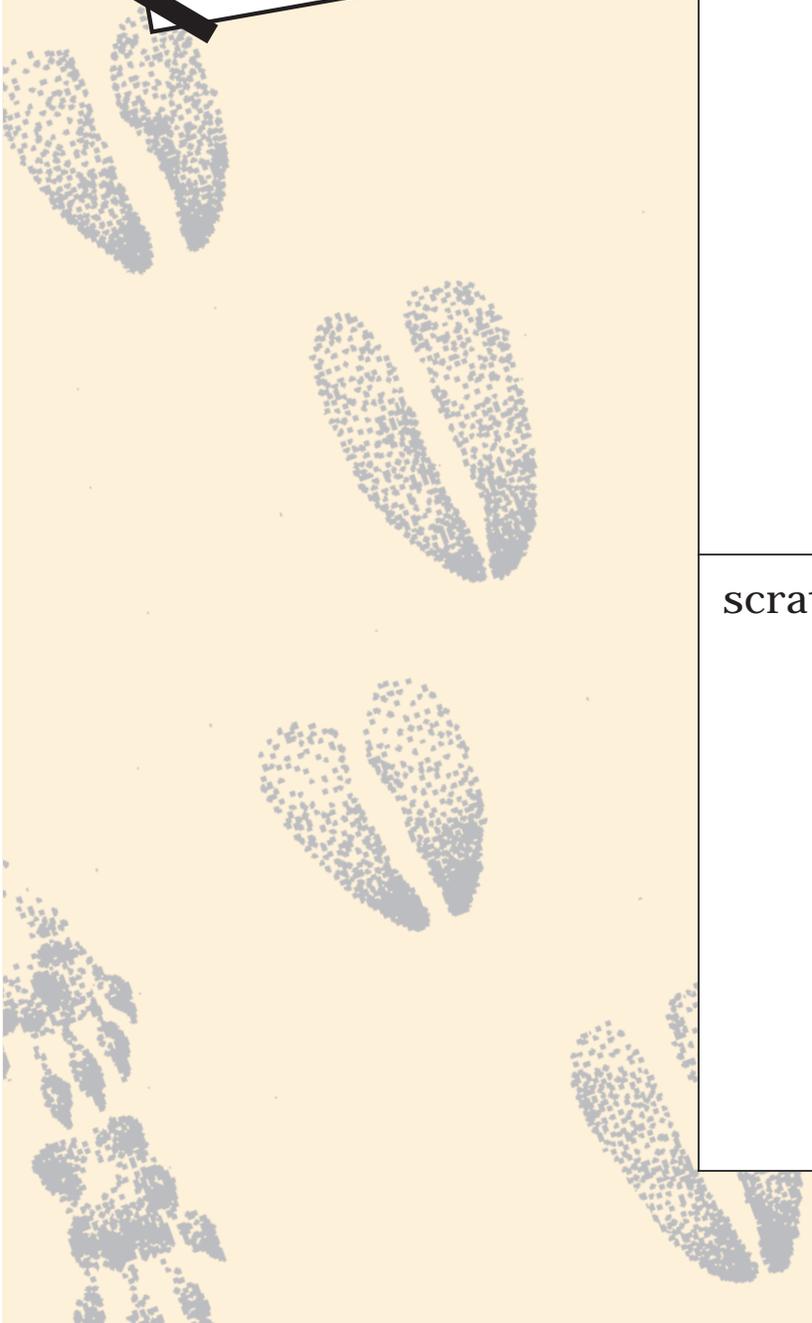
Don't collect or disturb the things  
you find. Instead, bring back a  
sketch or a written description in  
the boxes provided.

Something....

found with binoculars

crooked

scratchy



found with the lens

straight

noisy

soft

from an animal

colorful

# WRAPPING UP

You made a prediction about what you might see today. How close did you come?

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Did you see anything unexpected?

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Did you learn new things about how to observe?

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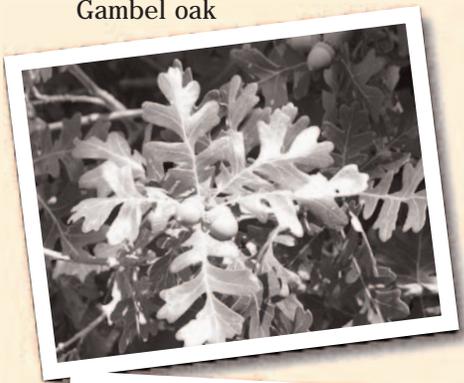
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Gambel oak



Juniper



Mormon tea



# ★ DISCOVERY FIELD JOURNAL ★



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