

Explore the  
**Outdoors**

**1st**  
GRADE



# Table of Contents

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## Explore the Outdoors

Let's Explore the Outdoors  
My Goals for the Outdoors  
    Magnifying Glass  
    Animal Tracks Checklist  
    Bug Identification Chart  
    Flower Identification Chart  
    Name the Parts of a Plant  
    What is Photosynthesis?  
        Tree Rings  
    Petrified Forest, Arizona  
    Yellowstone National Park  
    Grand Canyon, Arizona  
        National Parks  
        National Parks Map  
        Weather Forecast  
        Label the Clouds  
        Cloud Gazing  
        Shadows  
    Make Your Own Sundial  
    Star Gazing

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LET'S EXPLORE  
THE  
OUTDOORS



THIS NATURE JOURNAL BELONGS TO:



# MY GOALS FOR THE OUTDOORS



A GOAL IS SOMETHING YOU WANT TO DO OR ACHIEVE. IT IS IMPORTANT TO SET GOALS AS A WAY TO CHALLENGE YOURSELF, AND IT IS A GREAT FEELING WHEN YOU MEET YOUR GOALS. USE THE SPACE BELOW TO WRITE SOME GOALS FOR YOUR OUTDOOR EXPLORATION!

I WANT TO VISIT ----- NATIONAL PARK.

I WANT TO SEE -----

I WANT TO RUN/WALK ----- MILES IN ----- MONTHS.

EVERY WEEK I WILL PLAY ----- OUTSIDE.

EVERY DAY I WILL GO ----- OUTSIDE.

I WANT TO LEARN HOW TO -----

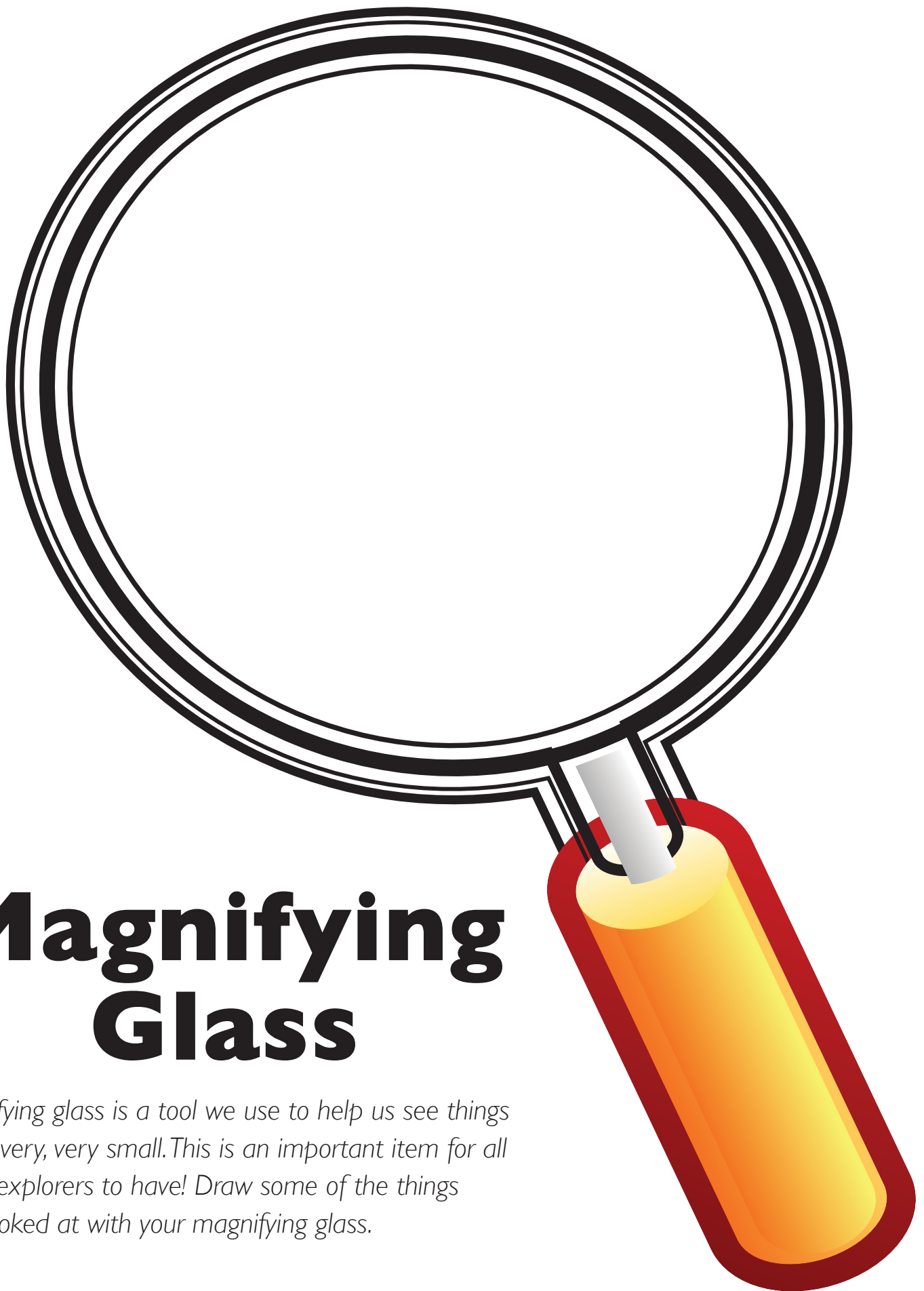
I WANT TO HIKE AT -----

I WANT TO CAMP AT -----

I WANT TO -----

I WANT TO -----





# Magnifying Glass

*A magnifying glass is a tool we use to help us see things that are very, very small. This is an important item for all outdoor explorers to have! Draw some of the things you've looked at with your magnifying glass.*

# Animal Tracks Checklist

While walking through the woods, look out for signs that animals have been there before you. Check the soft ground like sand, mud or snow, for animal tracks. Mammals of the dog and cat families walk on four toes. You can see the claws in dog's prints, but cats retract their claws. Bears, raccoons, and rodents walk on five toes. Some animals have human-like hands, and others have hooves.

The animals pictured below are all **North American Animals**.

When you go on hikes, carry this checklist and check off the animal tracks you see.

Bear



Coyote



Deer



Bobcat



Raccoon



Opossum



Fox



Wild Turkey



Badger



Wolf



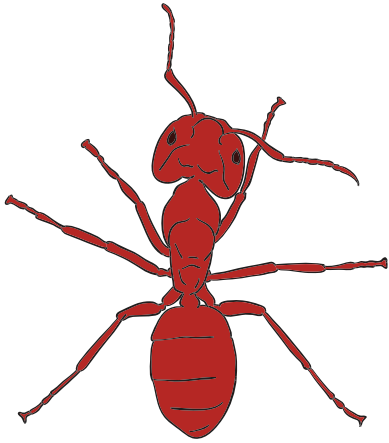
Porcupine



Squirrel



# Bug Identification Chart



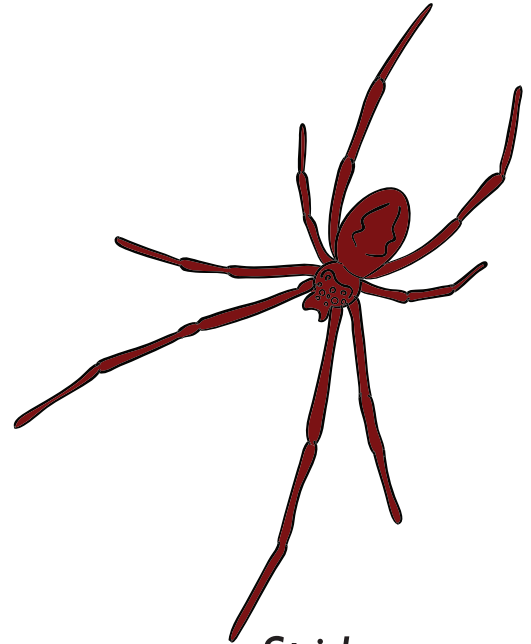
**Ant**

Ant colonies have one queen who lays thousands of eggs.



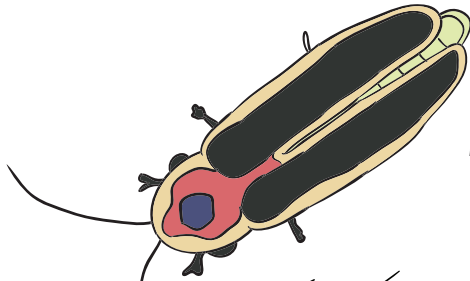
**Bee**

Bees help plants grow by spreading the pollen around to other plants.



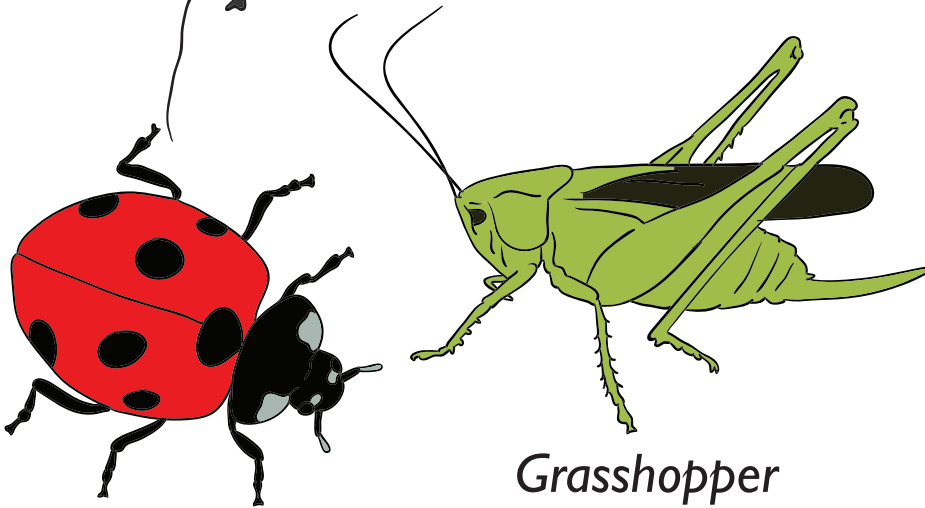
**Spider**

Some spider build web communities where up to 50,000 spiders may live.



**Firefly**

Fireflies produce light with chemicals in their bodies.

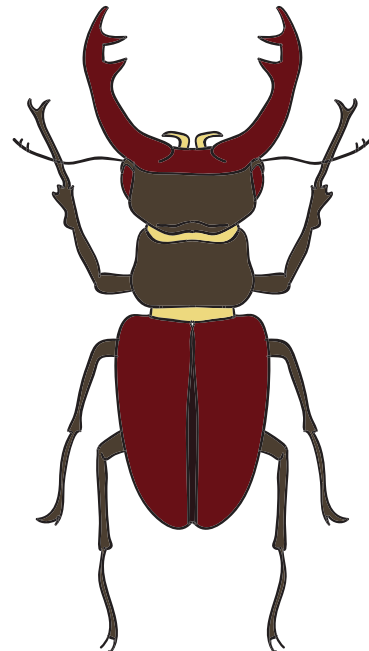


**Ladybug**

Ladybugs protect crops by eating plant-eating insects like aphids.

**Grasshopper**

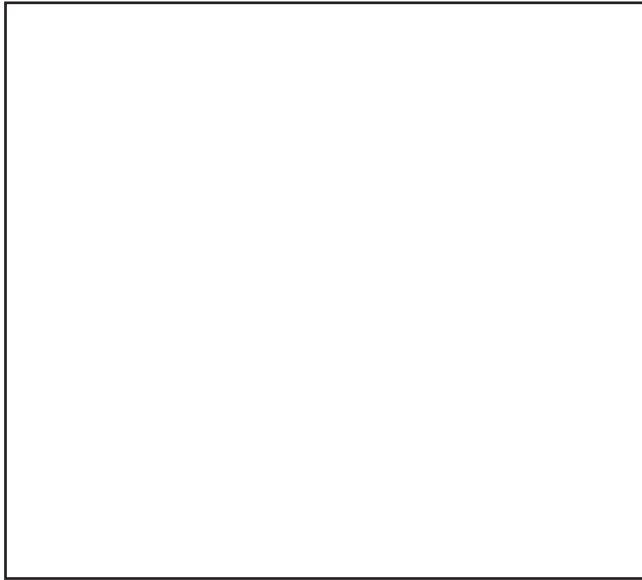
An adult grasshopper can leap 10 times it's length.



**Stag Beetle**

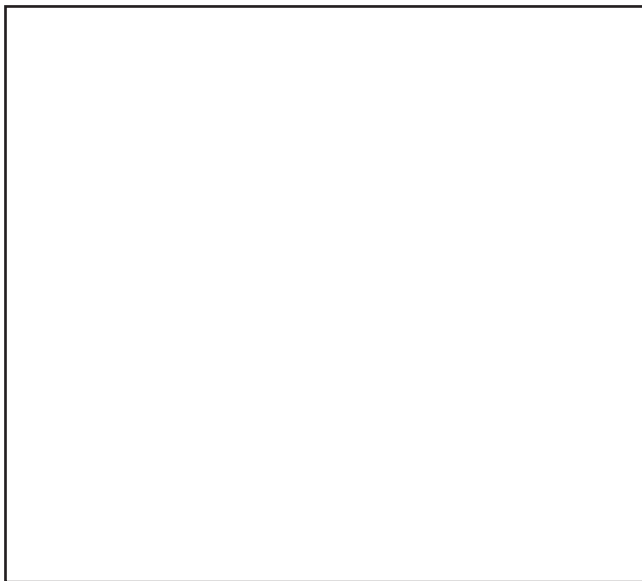
The large antlers on a stag beetle are really mandibles, which are its jaws.

Now it's time to go outdoors for some observation. That means watching and noticing important or interesting things about an object. Find 4 insects that you like and draw them in the spaces below. Then write down 1 or 2 observations about each insect!



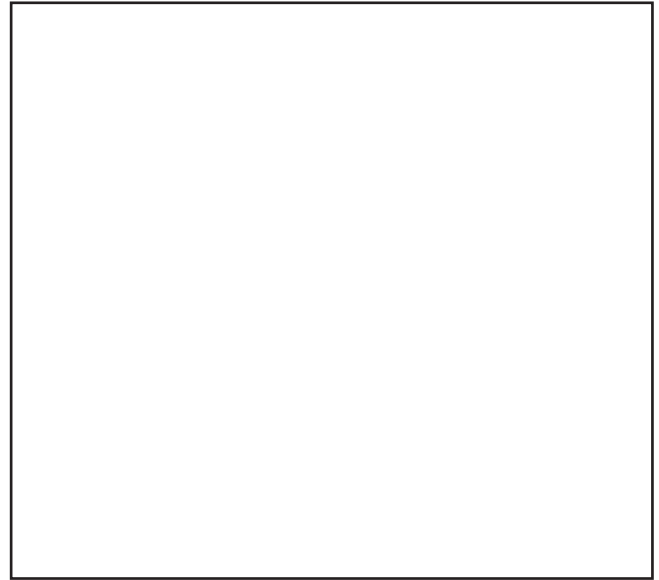
Color: - - - - Shape: - - - -

This insect is: - - - -



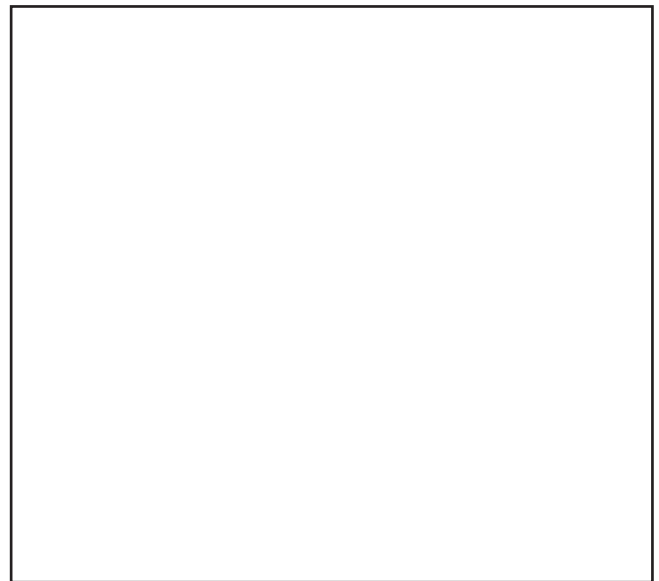
Color: - - - - Shape: - - - -

This insect is: - - - -



Color: - - - - Shape: - - - -

This insect is: - - - -



Color: - - - - Shape: - - - -

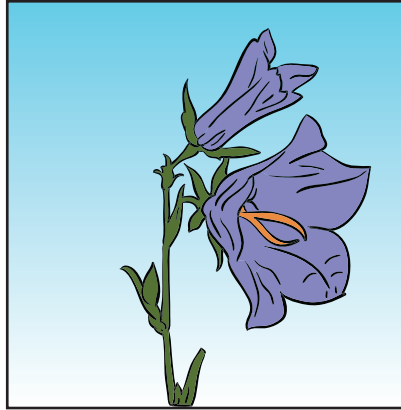
This insect is: - - - -

# Flower Identification Chart



**Poppy**

*This is the state flower of California.*



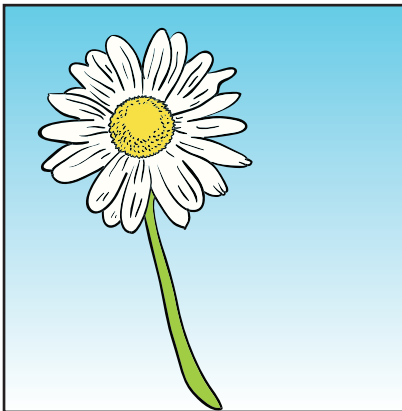
**Bluebell**

*This purple flower hangs like a bell.*



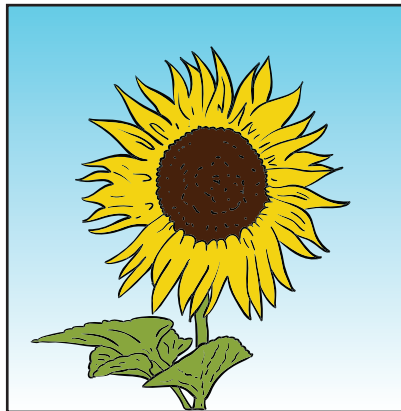
**Dandelion**

*This flower's name means lion's tooth.*



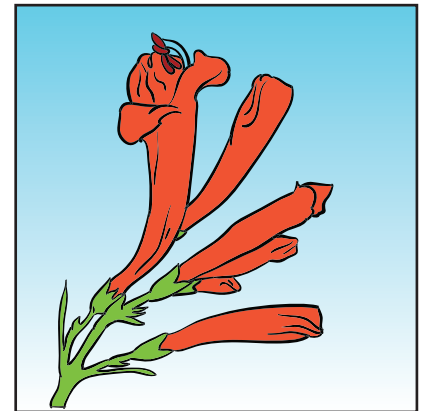
**Daisy**

*Daisy means "day's eye" because daisies open as soon as the day begins.*



**Sunflower**

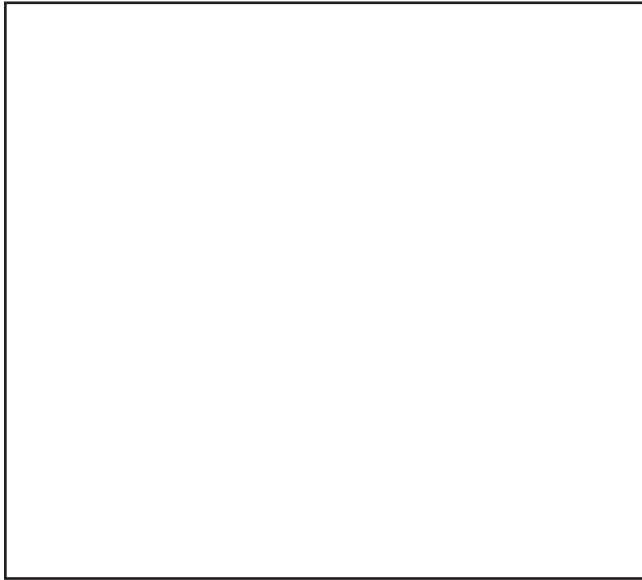
*The sunflower's bloom looks like the sun.*



**Honeysuckle**

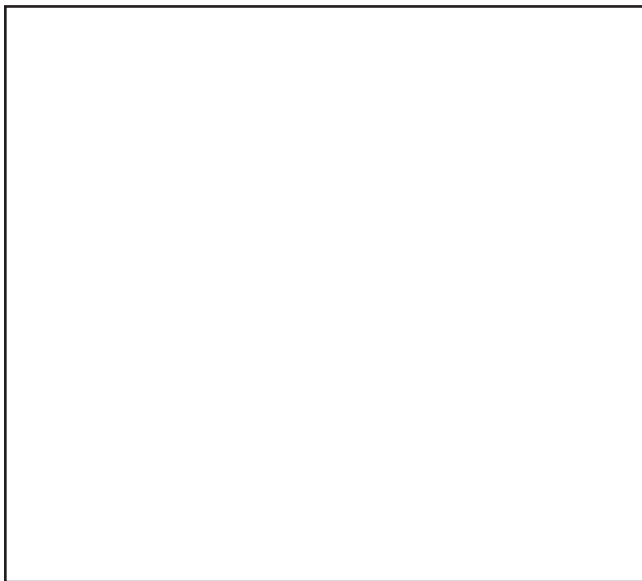
*Many honeysuckles have a sweet smell. They are bell shaped and make a nectar that you can eat.*

Now it's time to go outdoors for some observation. That means watching and noticing important or interesting things about an object. Find 4 flowers that you like and draw them in the spaces below. Then write down 1 or 2 observations about each flower!



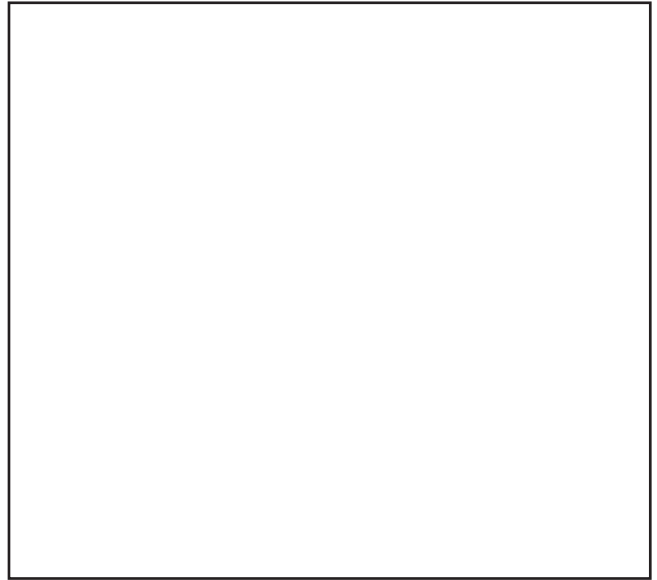
Color: - - - - Shape: - - - -

This flower is: - - - -



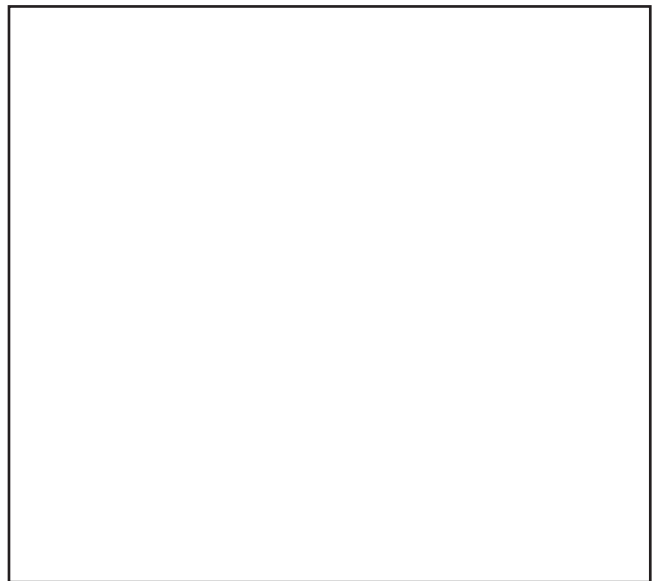
Color: - - - - Shape: - - - -

This flower is: - - - -



Color: - - - - Shape: - - - -

This flower is: - - - -

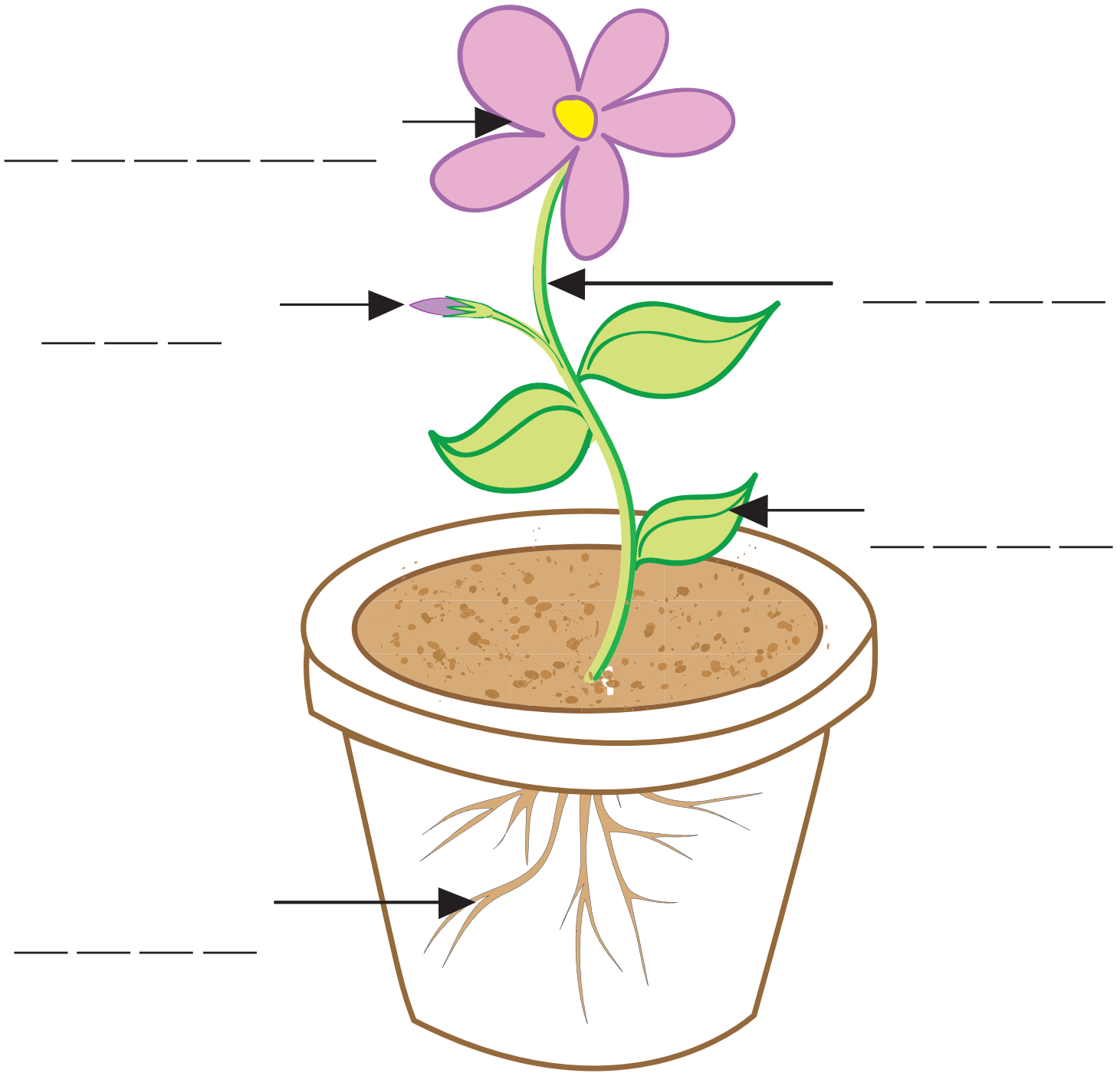


Color: - - - - Shape: - - - -

This flower is: - - - -

# Name the different parts of a plant

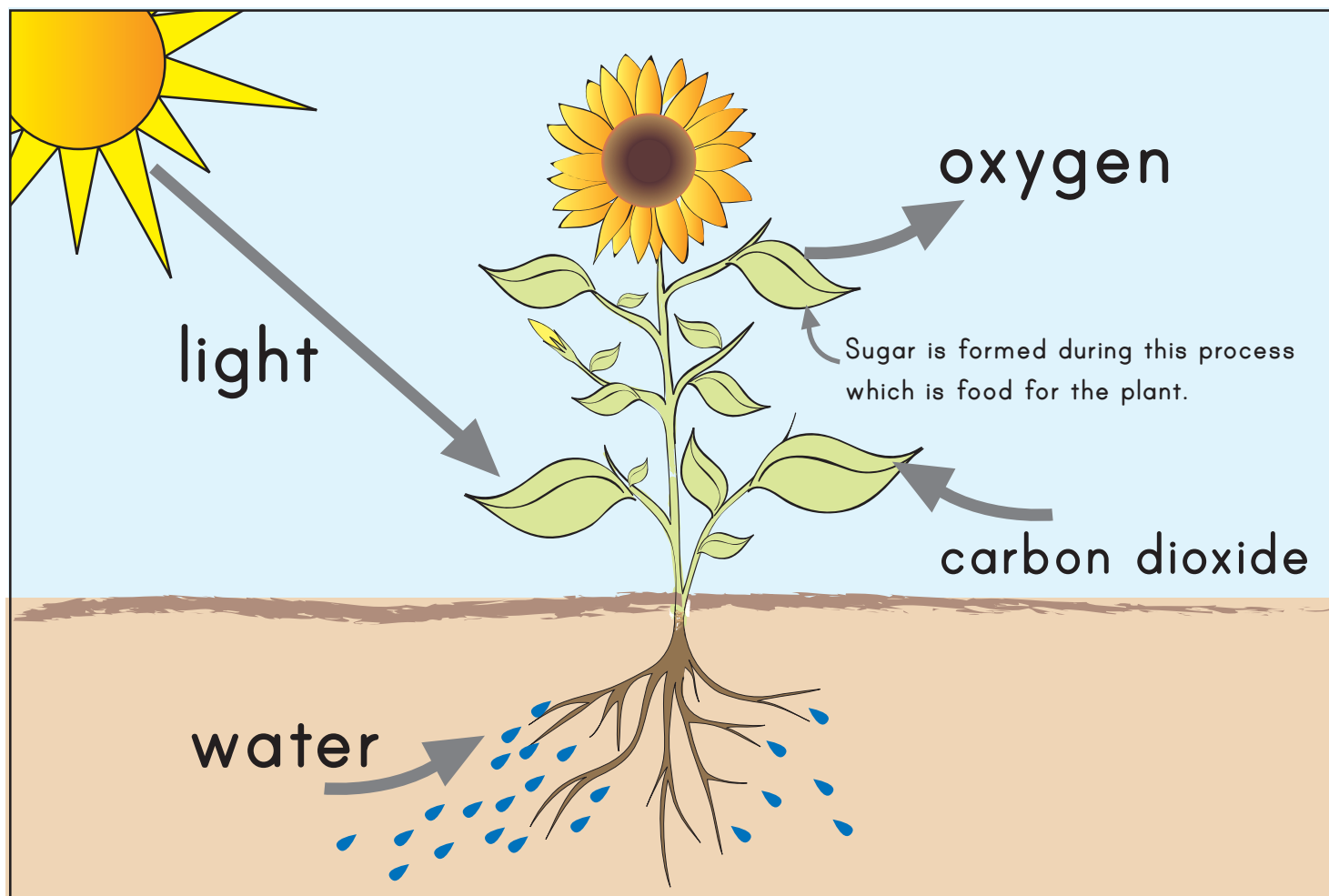
Choose the correct word from the bottom of the page to name each part of the plant.



stem flower root bud leaf

# WHAT IS PHOTOSYNTHESIS

Look at the picture and fill in the blanks using the words at the bottom of the page.



Photosynthesis is a process where plants use \_\_\_\_\_ from the sun to convert \_\_\_\_\_ from the air and \_\_\_\_\_ from the soil into \_\_\_\_\_ to feed the plant and \_\_\_\_\_ is given out in the air.

water, sugar, carbon dioxide, light, oxygen

# TREE RINGS

We can find out a lot about a tree by looking at the rings in its trunk. To see the rings, we must look at a cross section of the trunk, just like this!

## **Rainy Season**

A wide ring means there was lots of rain that year.

## **Dry Season**

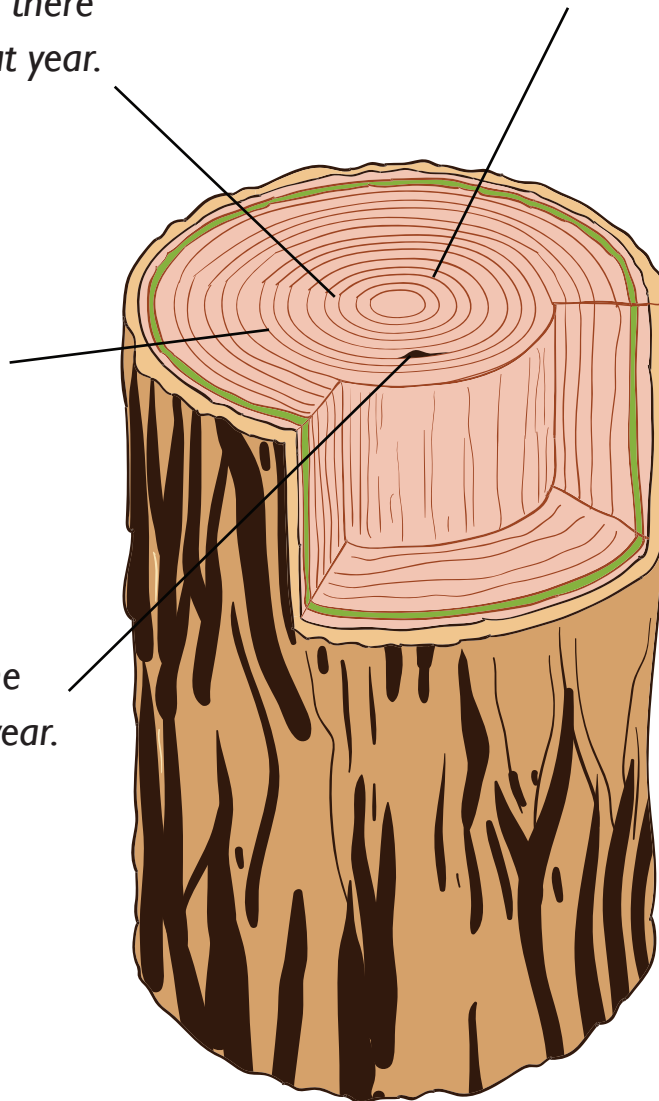
A thin ring means there was no rain that year.

## **Fire Damage**

A dark mark means the tree was damaged that year.

## **First year growth**

One ring usually stands for one year of the tree's life.



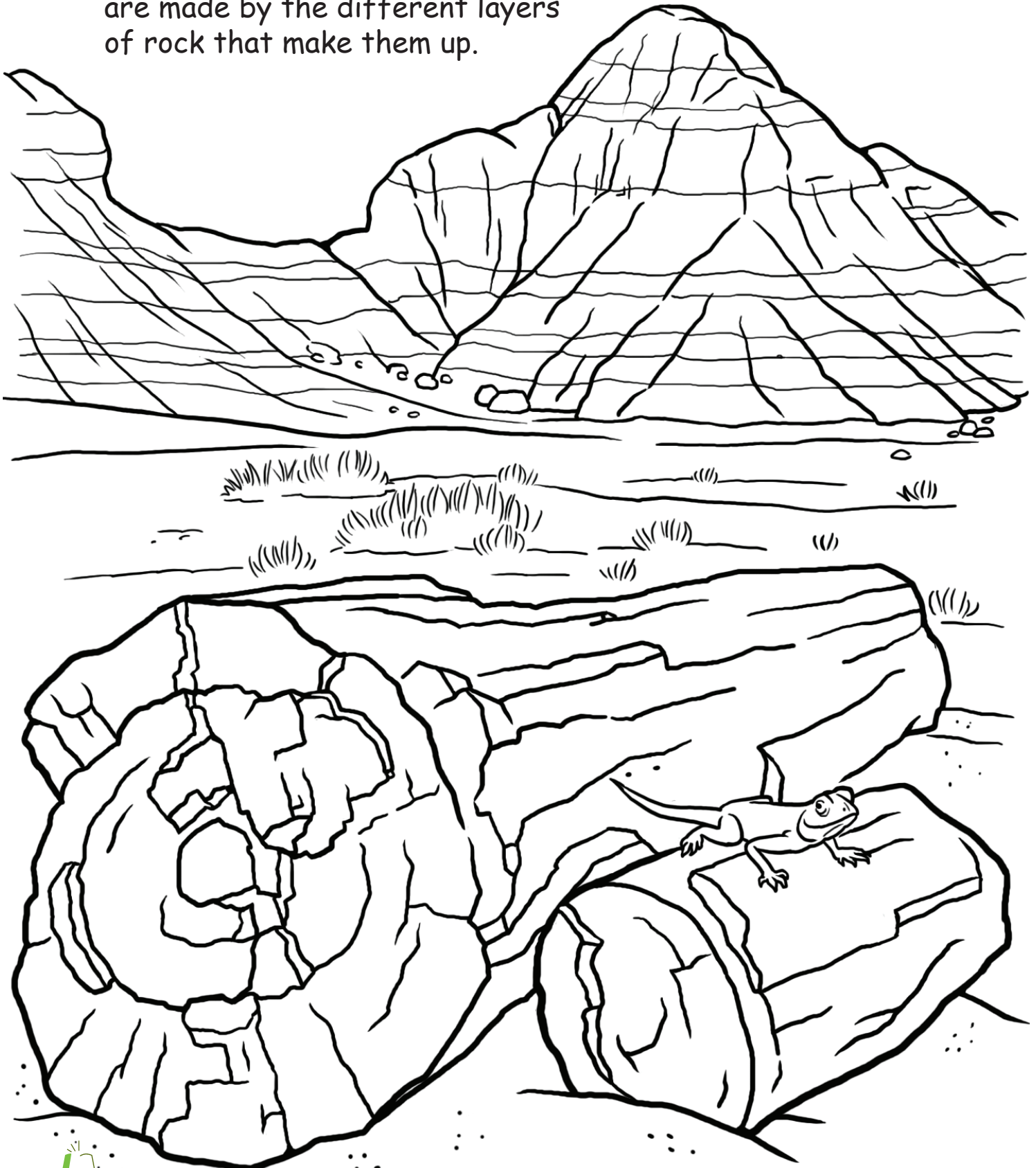
# ACTIVITY

*On your next outdoor adventure, if you come across a tree stump, take a look at its rings. Can you count how old the tree was? Did it have any damage?*

*Draw a picture of it here:*

# Petrified Forest, Arizona

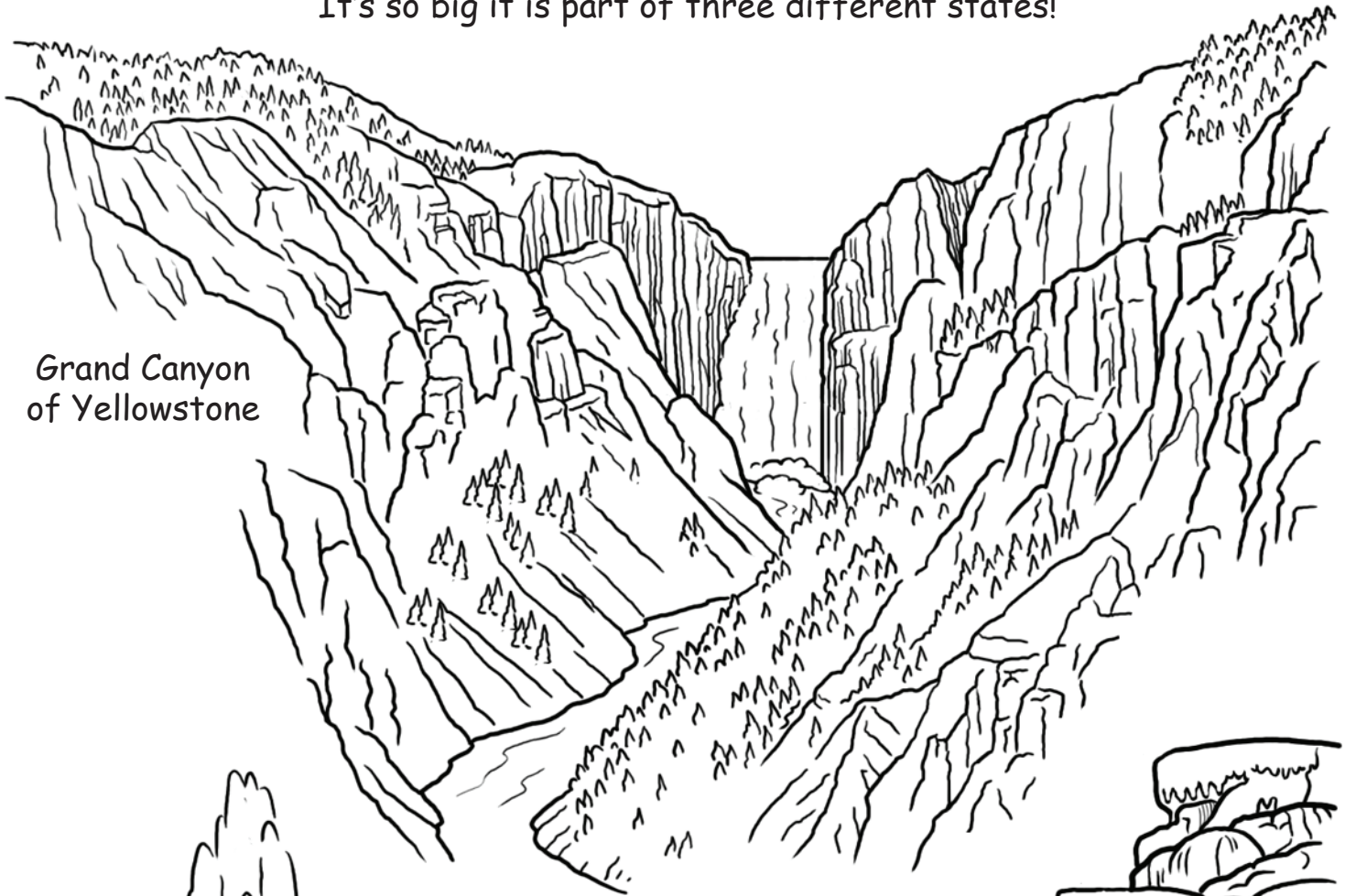
The brightly-colored stripes in the land at Petrified Forest National Park are made by the different layers of rock that make them up.



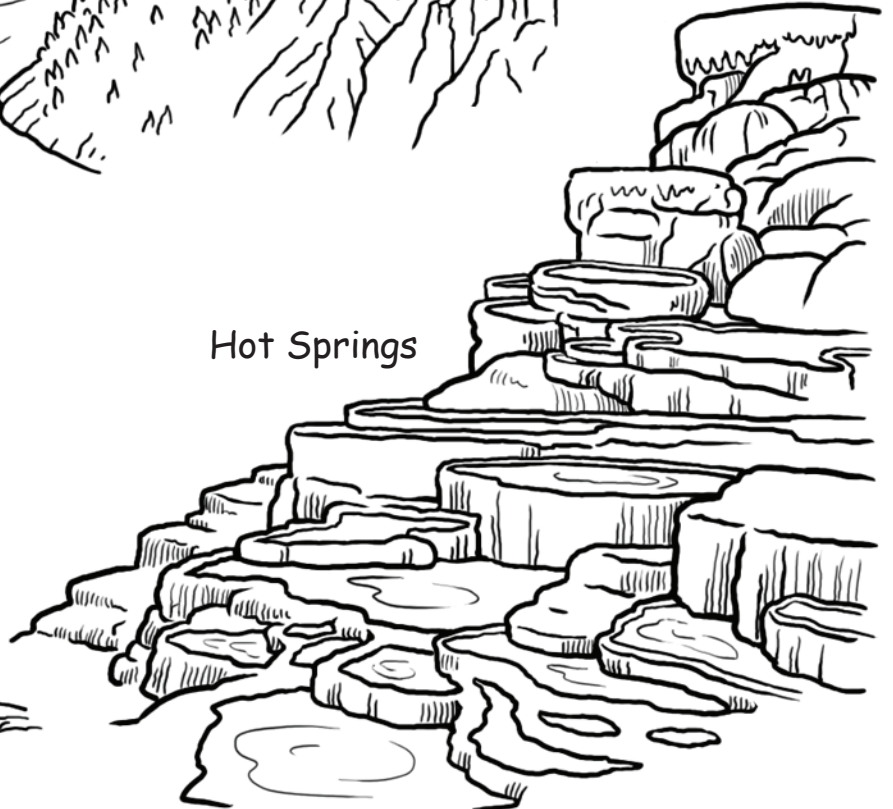
# Yellowstone National Park, Wyoming, Montana and Idaho

Yellowstone was the very first national park.  
It's so big it is part of three different states!

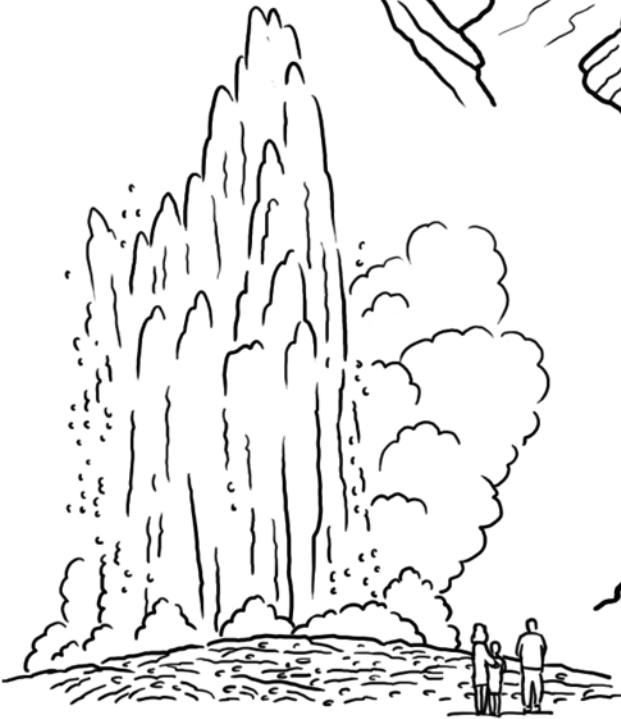
Grand Canyon  
of Yellowstone



Hot Springs



Old Faithful Geyser



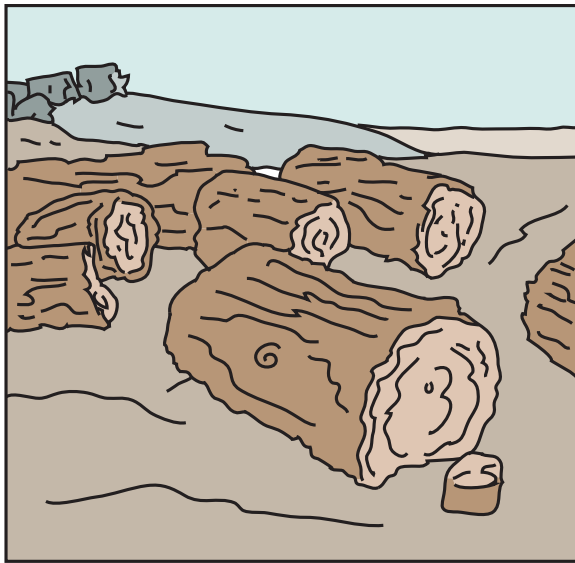
# Grand Canyon, Arizona

The Grand Canyon was created over the course of two billion years.  
It is considered to be one of the wonders of the natural world!

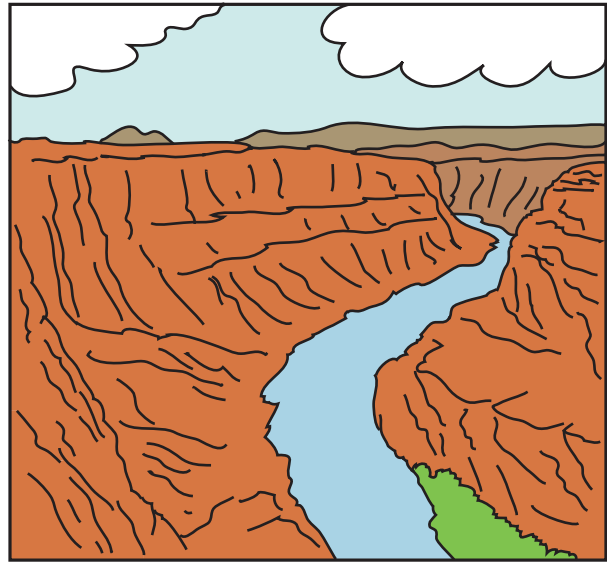


# National Parks

National Parks are large areas of protected land. It is important for the United States to keep these parks safe so they can be enjoyed by everyone for a long time. There are almost 400 protected areas in the U.S.! 58 of these protected areas are officially known as national parks.



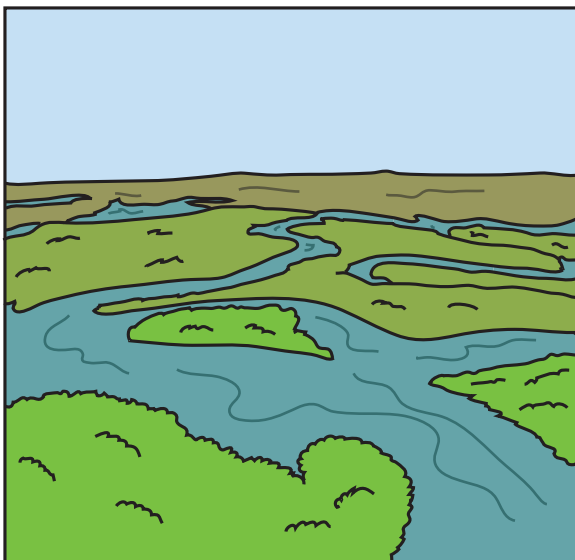
*Petrified Forest, Arizona*



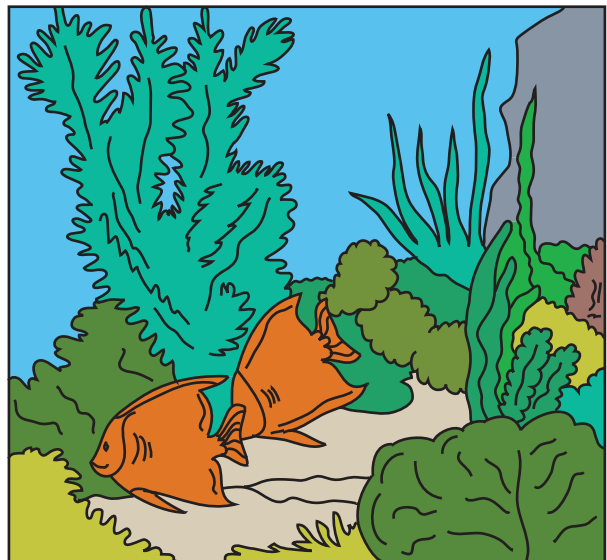
*Grand Canyon, Arizona*

Many places are protected because they are a special part of nature.

Other national parks exist to protect endangered animals living there.

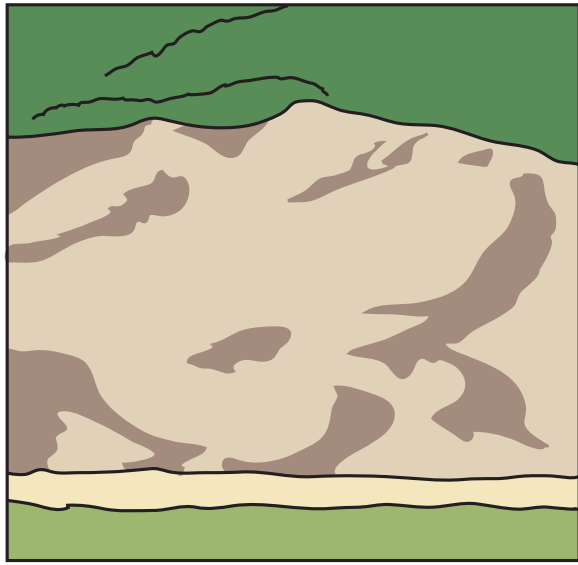


*Everglades, Florida*



*Biscayne, Florida*

Other places are protected because they are an important part of our country's history.



Great Sand Dunes, Colorado



Mesa Verde, Colorado

## Did You know...

The first national park was Yellowstone, in Wyoming, established in 1872.

The newest national park is the Great Sand Dunes, established in 2004.

The pools in Hot Springs National Park are known to have healing powers.

The wood in the Petrified Forest National Park is 225 million years old.

Redwoods in Redwood National Park are the tallest species of tree.

There are rocks in the Grand Canyon that are 2 billion years old.

The lava in the Hawaii Volcanoes is 2,150 degrees.





# Weather Forecast

Can you predict the weather? Draw a picture of what the weather looks like today, and how you think the weather will look the rest of the week.

Each day, check to see how close your predictions were!

**Sat**

**Sun**

**Mon**

**Tue**

**Wed**

**Thur**

**Fri**

--	--	--	--	--	--	--

Here are some of the symbols used to write a weather forecast.

Can you guess what they mean?



# LABEL THE CLOUDS

**DIRECTIONS:** Label the types of clouds based on the definitions below



**CIRRUS** - High-altitude feathery thin, white, curly shaped clouds.

**CIRROCUMULUS** - High-altitude, small, wispy, patchy puffy clouds that form in rows.

**CIRROSTRATUS** - High-altitude thin wispy clouds. When they cover the sky, they are so thin that it looks like a white sheet.

**CUMULUS** - Low-altitude fluffy white clouds, typical of hot weather

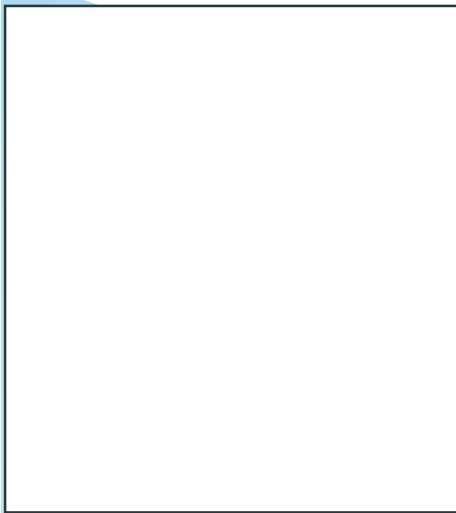
**STRATUS** - Low-altitude horizontal, grey, wispy clouds

**NIMBOSTRATUS** - Low-altitude dark rain clouds

# CLOUD GAZING

ENJOY A SUNNY DAY BY LOOKING AT THE CLOUDS!

YOU'LL NEED: A GRASSY FIELD OR MEADOW, A BLANKET TO LAY ON,  
AND A PARTNER TO CLOUD-GAZE WITH! BE SURE TO BRING A PENCIL  
AND DRAW THE FUNNY SHAPES YOU SEE IN THE CLOUDS.



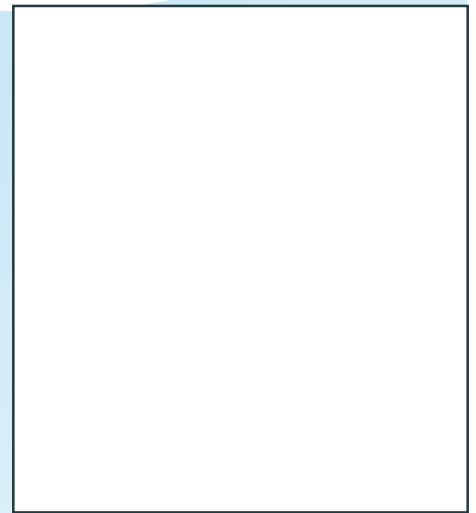
THIS CLOUD IS A

IT LOOKS LIKE A



THIS CLOUD IS A

IT LOOKS LIKE A



THIS CLOUD IS A

IT LOOKS LIKE A

CIRRUS: HIGH UP, FEATHERY, THIN, WHITE, CURLY SHAPED

CIRROCUMULUS: HIGH UP, SMALL, WISPY, PATCHY, PUFFY, IN ROWS

CIRROSTRATUS: HIGH UP THIN, WISPY, LIKE WHITE SHEETS

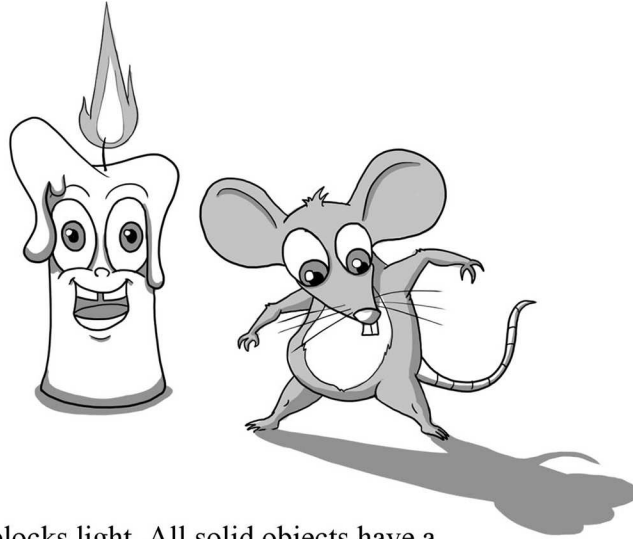
CUMULUS: LOW, FLUFFY, WHITE, TYPICAL OF HOT WEATHER

STRATUS: LOW, HORIZONTAL, GREY, WISPY

NIMBOSTRATUS: LOW, DARK, RAIN CLOUDS

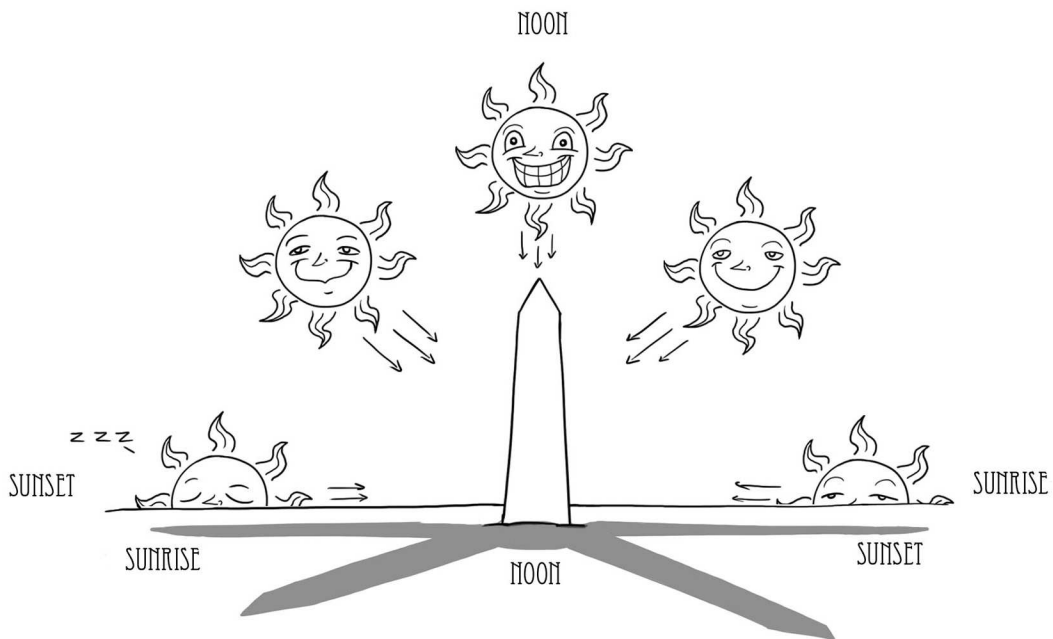
# SHADOWS

Hi everyone! My name is Dill – short for Can Dill. I'm here to teach you about shadows.



A shadow is created when an object blocks light. All solid objects have a shadow. Take a look at my friend here. The shadow on the ground is created by the light of my flame being blocked by the mouse's shape.

When you're outside, the sun casts shadows everywhere. Shadows appear in different positions based on the time of day.



On a sunny day, place an object outdoors. Check on it every two hours. Has the shadow moved? Draw a picture of the object and its shadow in the boxes below each time you check on it.

Make sure to draw the object from the same position!

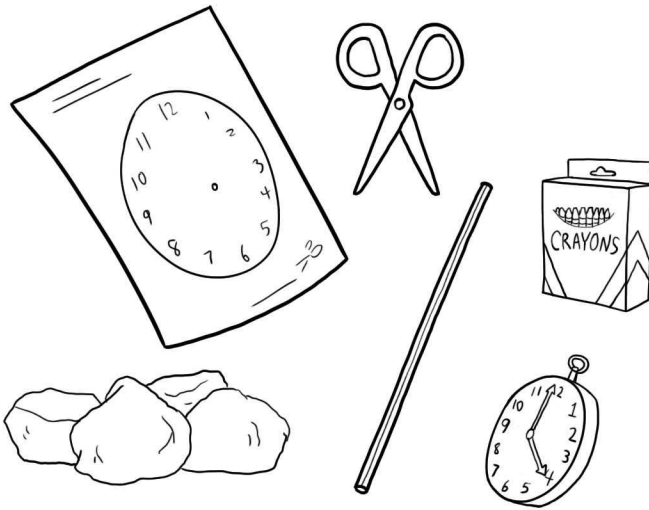

Where do you think the shadow will be tomorrow at 10 a.m.?

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# Make Your Own Sundial

Remember: Never look directly at the sun.

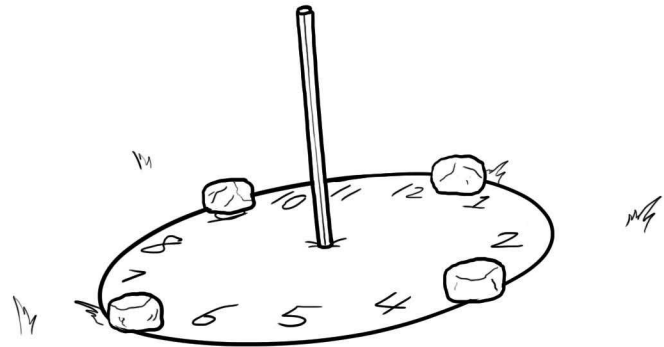


## What You Need:

- 1) The second page
- 2) Safety scissors
- 3) 4 rocks
- 4) A straw or coffee stirrer
- 5) A clock
- 6) Crayons

1) Cut out the sundial on the second page.

2) Decorate your sundial, filling in the circles with numbers so that it looks like a clock. Feel free to use more than just crayons to decorate with!

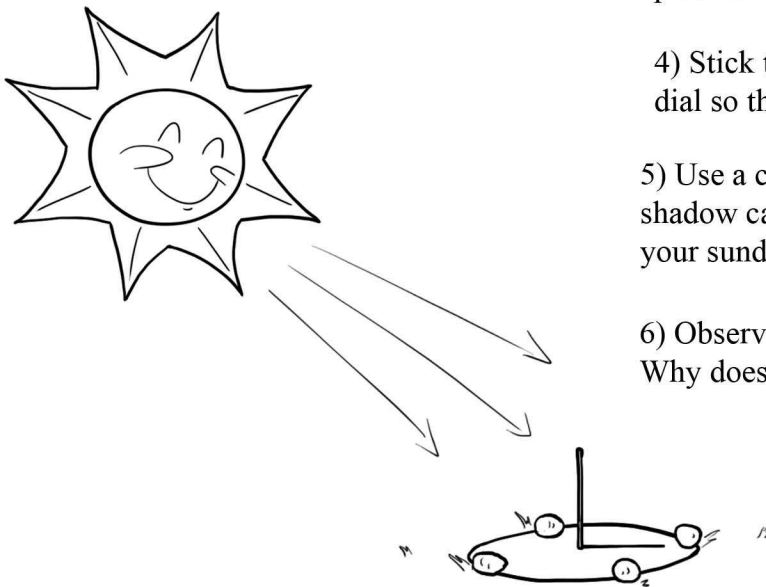


3) Take everything outside and put your sundial on the ground. Use the rocks to hold down the sundial and stop the wind from blowing it away. You may want to glue it to a piece of cardboard.

4) Stick the straw or coffee stirrer into the center of the sundial so that it goes into the ground.

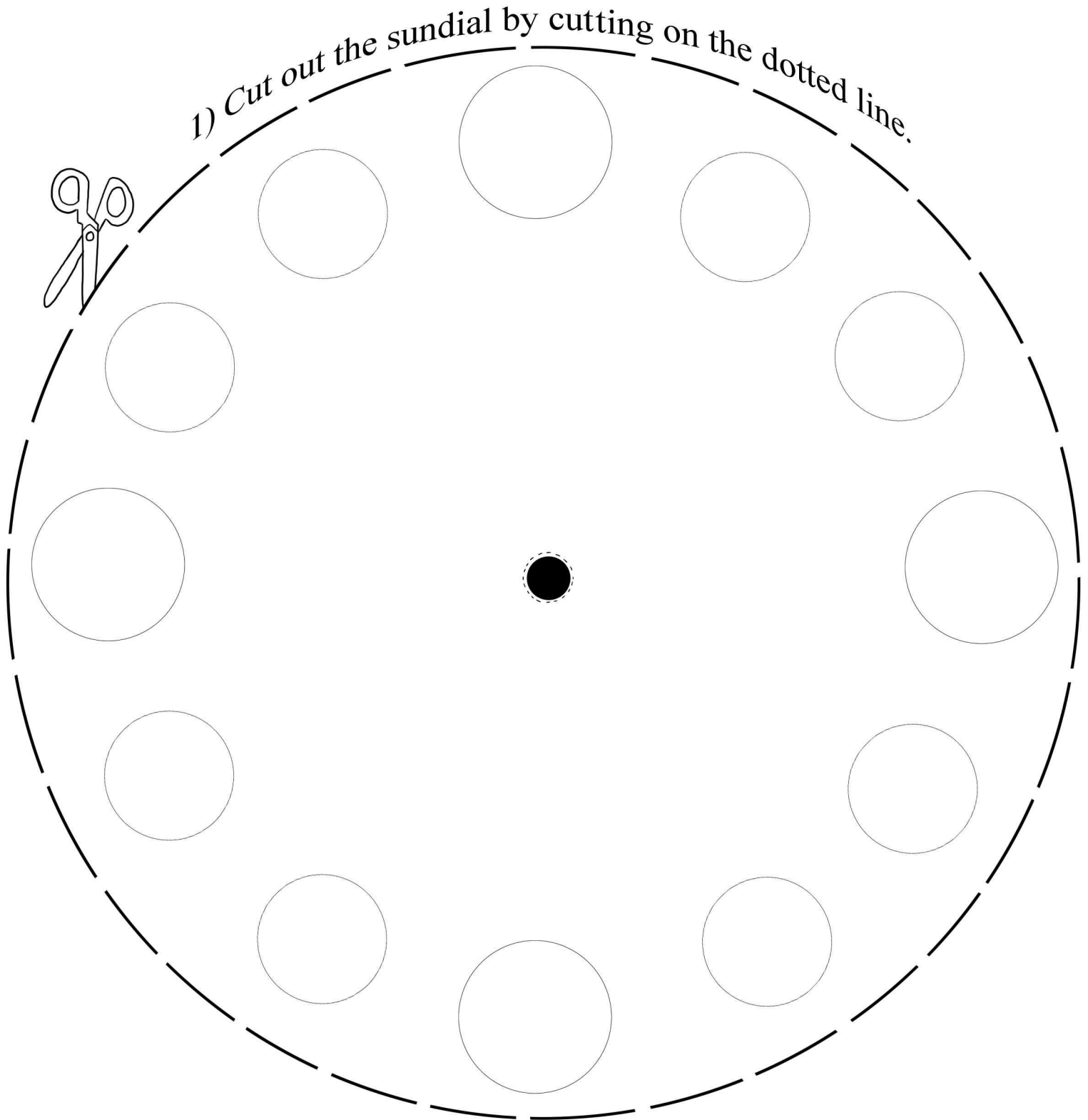
5) Use a clock to see what time it is. Turn your sundial so that the shadow cast by the straw points to the correct hour on your sundial.

6) Observe how the shadow moves like the hands on a clock. Why does the shadow move?



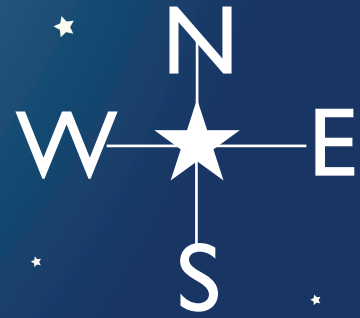
# Sundial

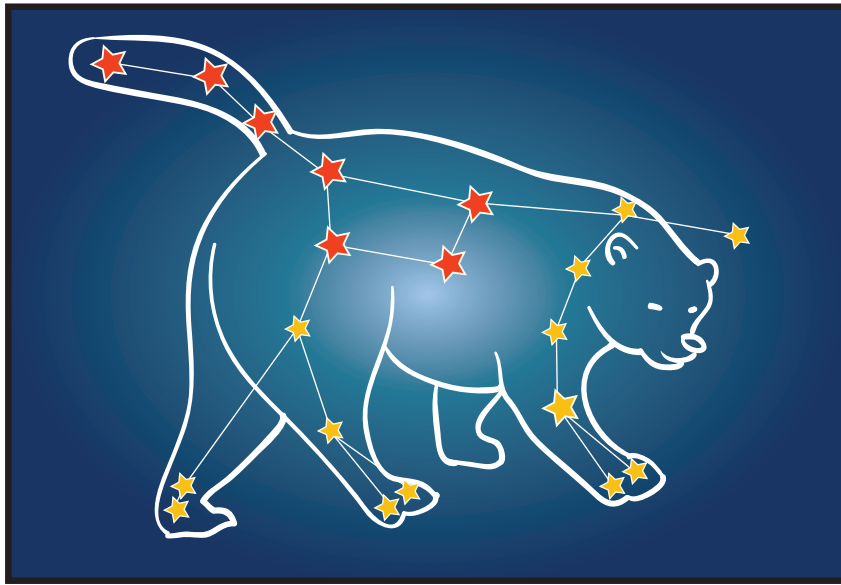
If you need help cutting, ask a grown-up for help.



- 2) Cut out the small black hole in the center of the sundial.
- 3) Use your crayons to fill in the 12 other circles with numbers like on a clock.
- 4) Decorate your sundial! Have fun and use your favorite colors!

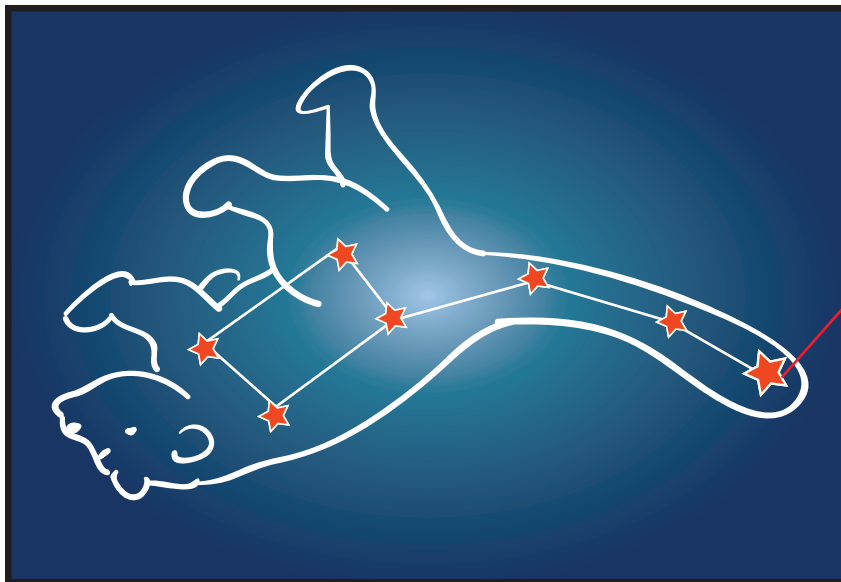
# ★ ★ STAR GAZING ★ ★





*Ursa Major (big bear)*

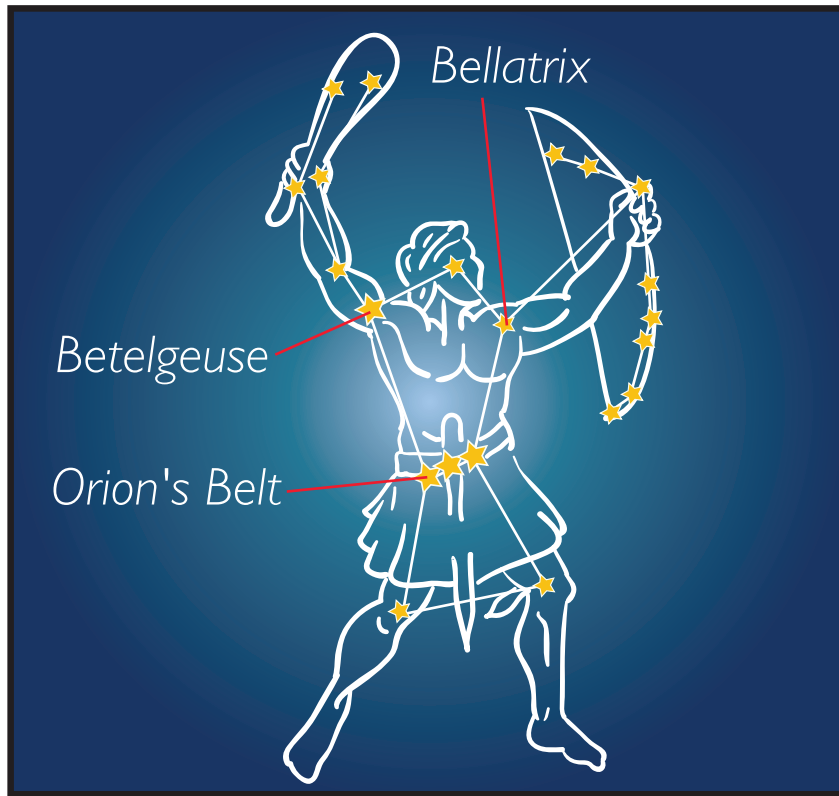
A woman named Callisto was turned into a bear by an angry goddess, Hera, and was put up in the sky, where she still lives today. The orange stars are known as the Big Dipper.



*Ursa Minor (little bear)*

The little bear is Arcas, Callisto's son. He was also turned into a bear and put up in the sky. The orange stars are known as the little Dipper.

Polaris (the north star) is the tail of the little dipper, an important star that hunters and travelers can use as a compass to find north.



*Orion*

Orion was a hunter in ancient Greek mythology. After he was killed by a scorpion, the gods put him up in the sky. Orion's Belt - The three brightest stars in the Orion constellation.



*Sirius (the dog star)*

Orion's hunting dog Sirius is the brightest star in the sky!



*Cassiopeia*

Cassiopeia was a very vain, self-centered queen. The gods hung her upside-down in the sky as punishment.



*Cepheus*

Cepheus, the king, was Cassiopeia's husband.



*Lyra/Lyre*

The lyra was a stringed instrument that Orpheus used to charm wild animals. When he died, the lyra was placed in the sky to honor him.



*Aquila*

Aquila was an eagle of the gods. He did many things for the gods, such as carry Zeus' thunderbolts.

Great job!

---

is an Education.com writing superstar

