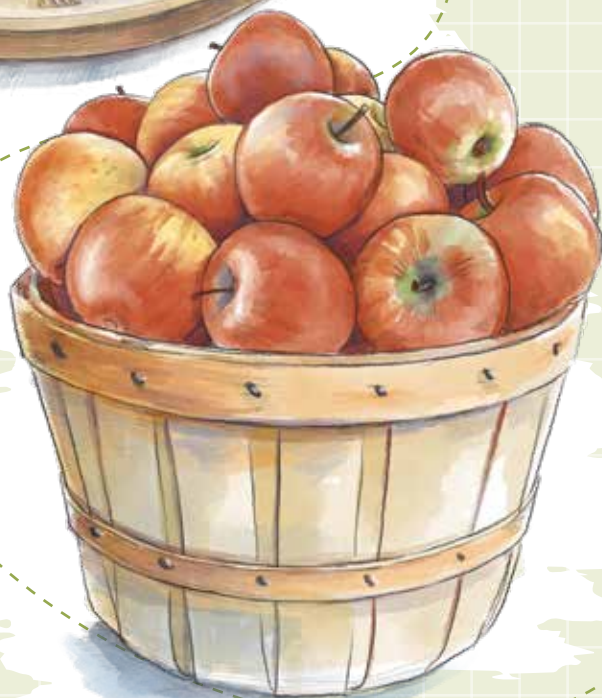




# Backyard and Beyond

PRIMARY ADVENTURES



*#NotConsumed® Homeschool*  
EXPLORATIONS CURRICULUM

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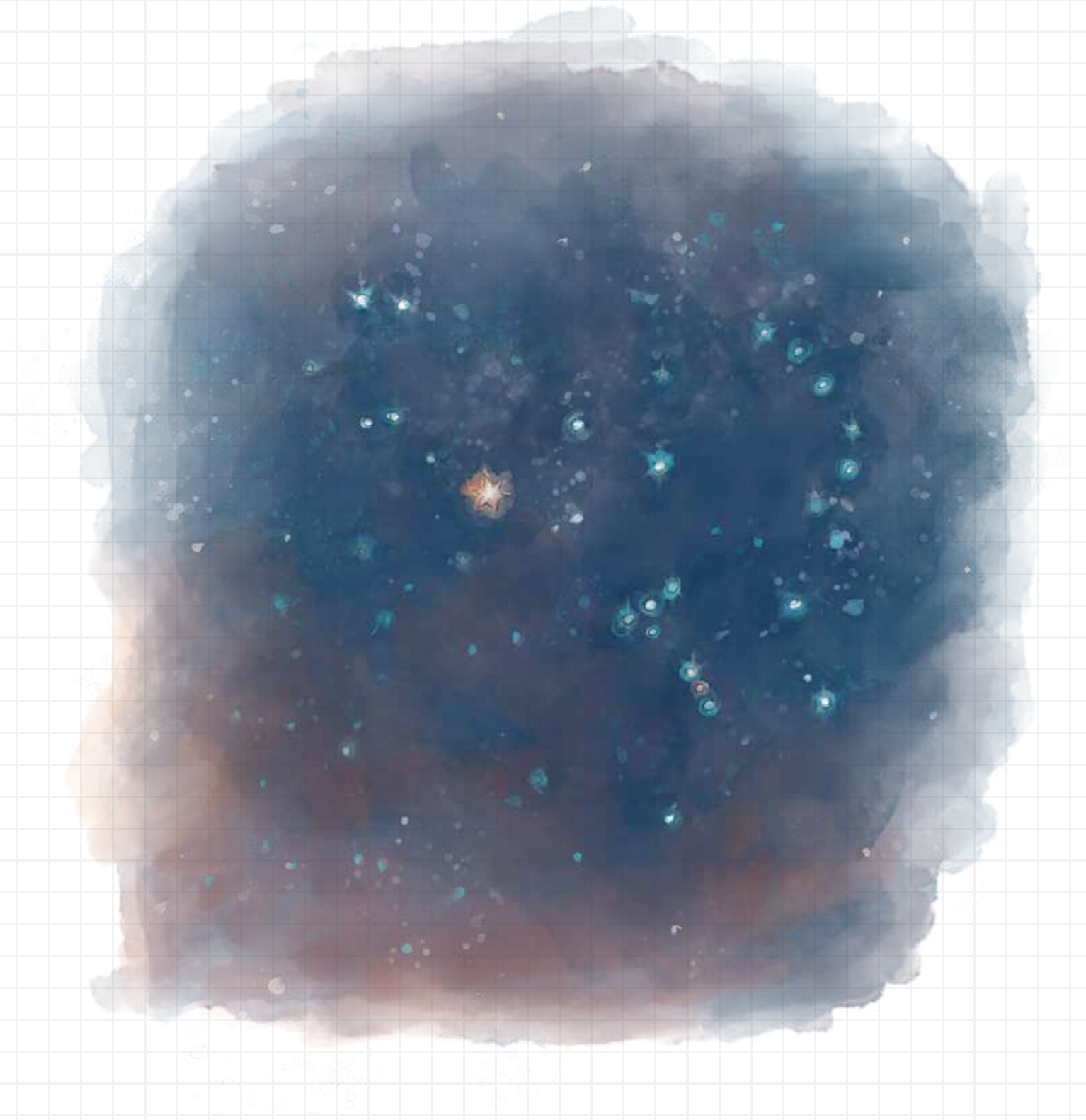
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# Stars

Let's explore some things about stars  
and learn what to expect on your adventure!



## Activity #1: The Number of Stars

A star is a gigantic, glowing ball of gas. When you look up in the night sky and see little dots of light, you're looking at stars that are incredibly far away. Most of those stars would be absolutely massive up close!

The closest star to Earth is one that you're very familiar with, but you may not know that it is a star. The sun is the closest star to the Earth. Our planet orbits around it, allowing us to have the light from the sun.

There are so many stars in the sky—it's impossible to count them all! Stars could be so far away that we can't see them, even when looking through the strongest telescope. However, scientists have a guess of how many stars there are.

Right now, scientists think there are 300 billion trillion stars in the universe!

Trace the number.

300 Billion  
Trillion

300,000,000,000,

000,000,000,000,

000,000,000,



## Activity #2: Types of Stars

While all the stars in the night sky appear to be white from where we live, stars come in all sorts of colors! The temperature of the star determines its color. Red stars are the coolest, yellow stars are a little bit hotter, and blue stars are the hottest stars. Color each of these stars the correct color.

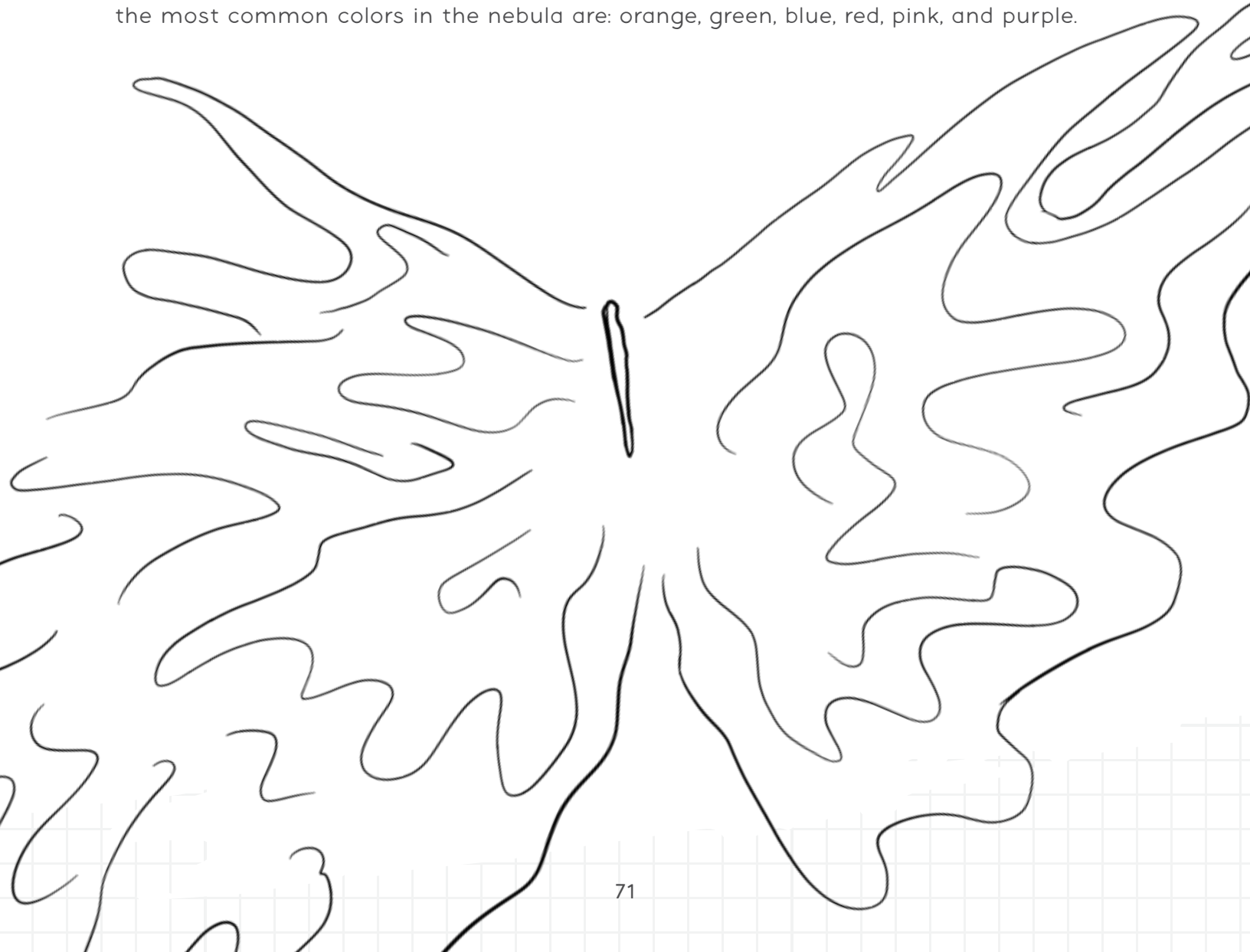
coolest



hottest

Stars aren't the only thing visible in space! One of the most beautiful things in space is a nebula. **Nebulae** are large clouds of gas and other substances. They are often very magnificent and colorful. A supernova occurs when a star explodes.

This nebula is called the "Butterfly Nebula." Color the pictures of the nebula. Some of the most common colors in the nebula are: orange, green, blue, red, pink, and purple.





## Activity #3: The Solar System

A solar system is a planet or group of planets that orbit (circle) around a particular star. Our planet is part of a solar system that orbits around the sun! However, Earth is not the only planet in our solar system. Our solar system has 8 planets, 5 dwarf planets, 290 moons, 1.3 million asteroids, and 3,900 comets.

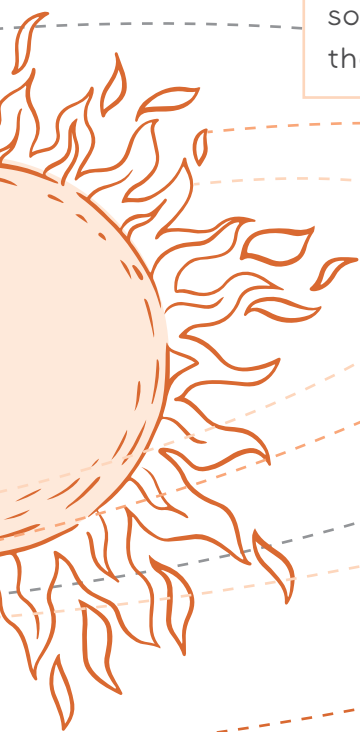
Use the stickers on page 261 to create the solar system as you learn about each planet.

**Mars**, known as the Red Planet, is dry, rocky, and very cold.

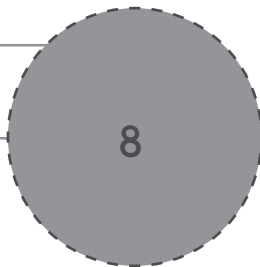
**Venus** is the hottest planet. It can reach temperatures of up to 876°F!

**Earth** is covered in water, making it the only planet that can have life on it.

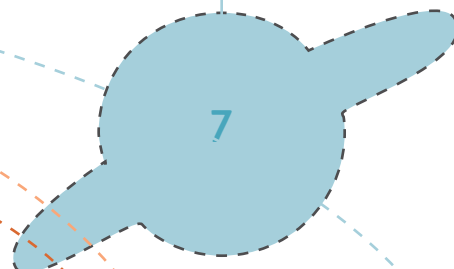
**Jupiter** is a massive planet—twice the size of all the other planets combined.



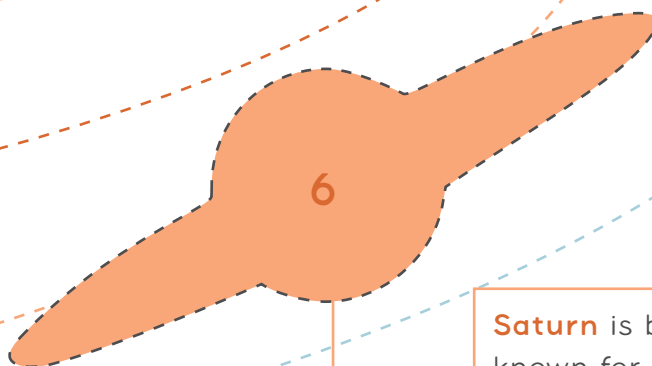
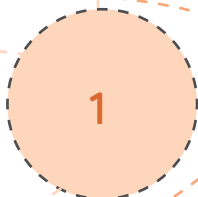
**Neptune** is the furthest planet from the sun in our solar system.



**Uranus** is made of particular gases and substances that make it look blue.



**Mercury** is the smallest planet in the solar system and is the closest to the sun.



**Saturn** is best known for the beautiful rings that encircle it.





## Activity #4: Dramatic Play

Constellations are groups of stars that resemble a picture of something, like a lion or a person. Many of them were named a long time ago, but we can still see them in the sky today. This project is a fun way to play with constellations!

### Materials:

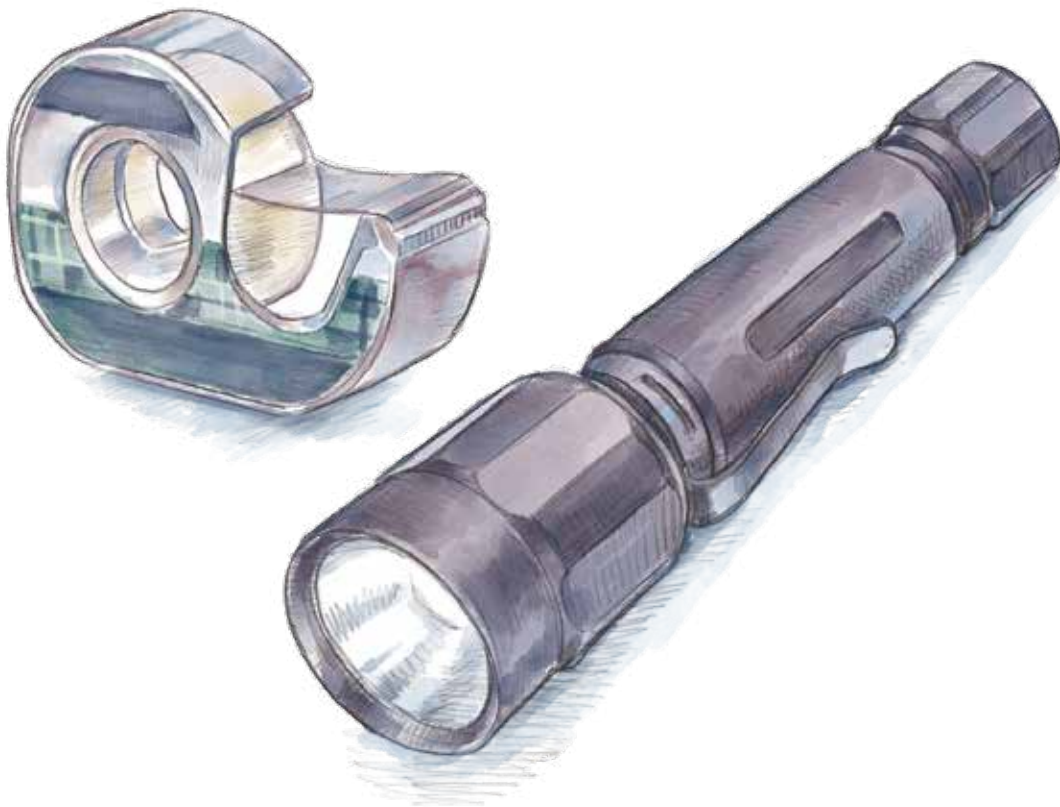
Empty toilet paper tube  
Scissors  
One push pin  
Soft surface  
(like styrofoam or cardboard)  
Tape  
Flashlight

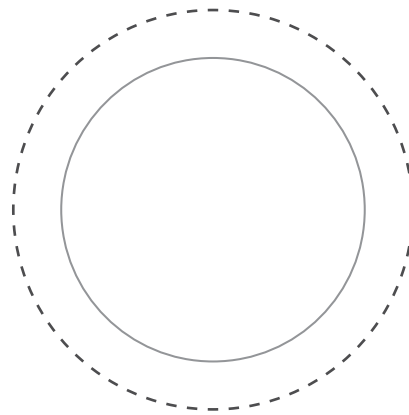
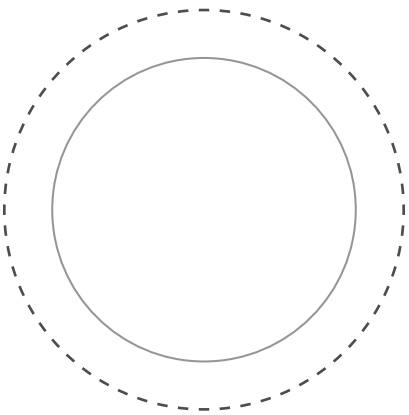
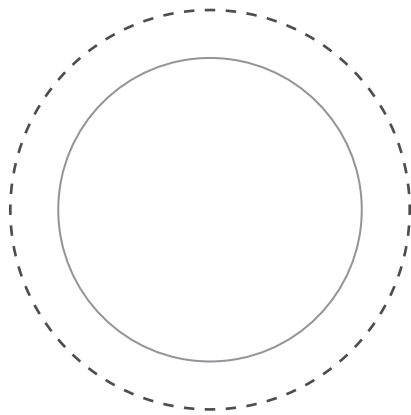
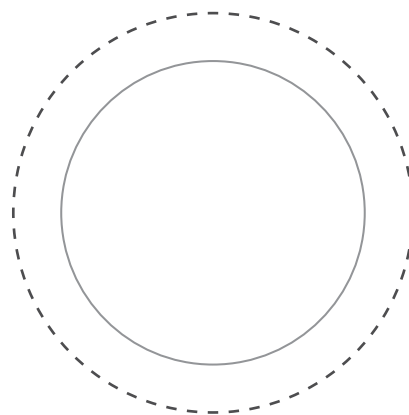
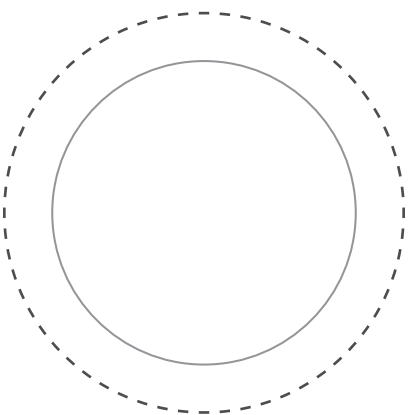
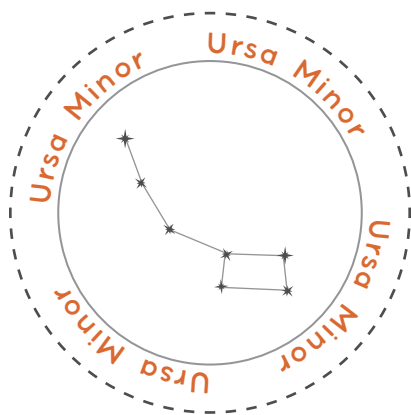
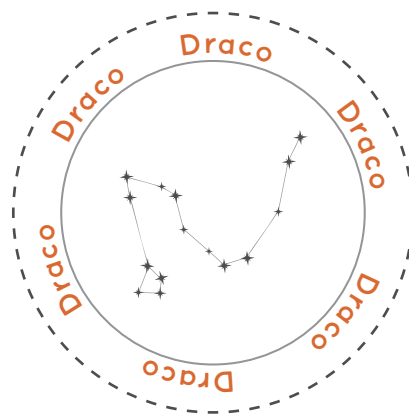
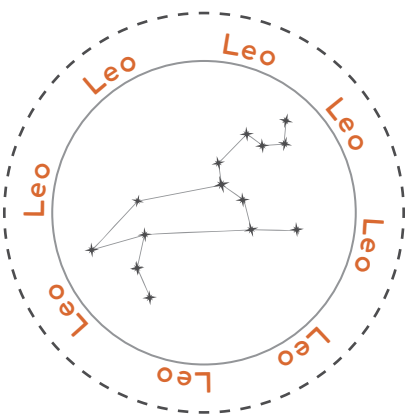
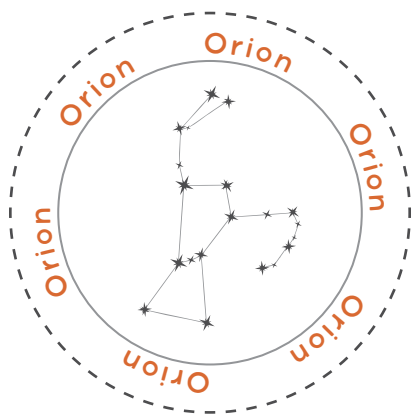
Cut out the constellations on the next page.

Put each circle on top of your soft surface. Use the push pin to make holes where each star is.

Then, tape the constellation on one end of the toilet paper tube. Shine the flashlight through the other end and hold it up to a dark wall to see the constellations.

Finally, use the empty circle to create your own constellation! Use your constellations to put on a planetarium show for your family! *Hint: It works best in a dark room.*



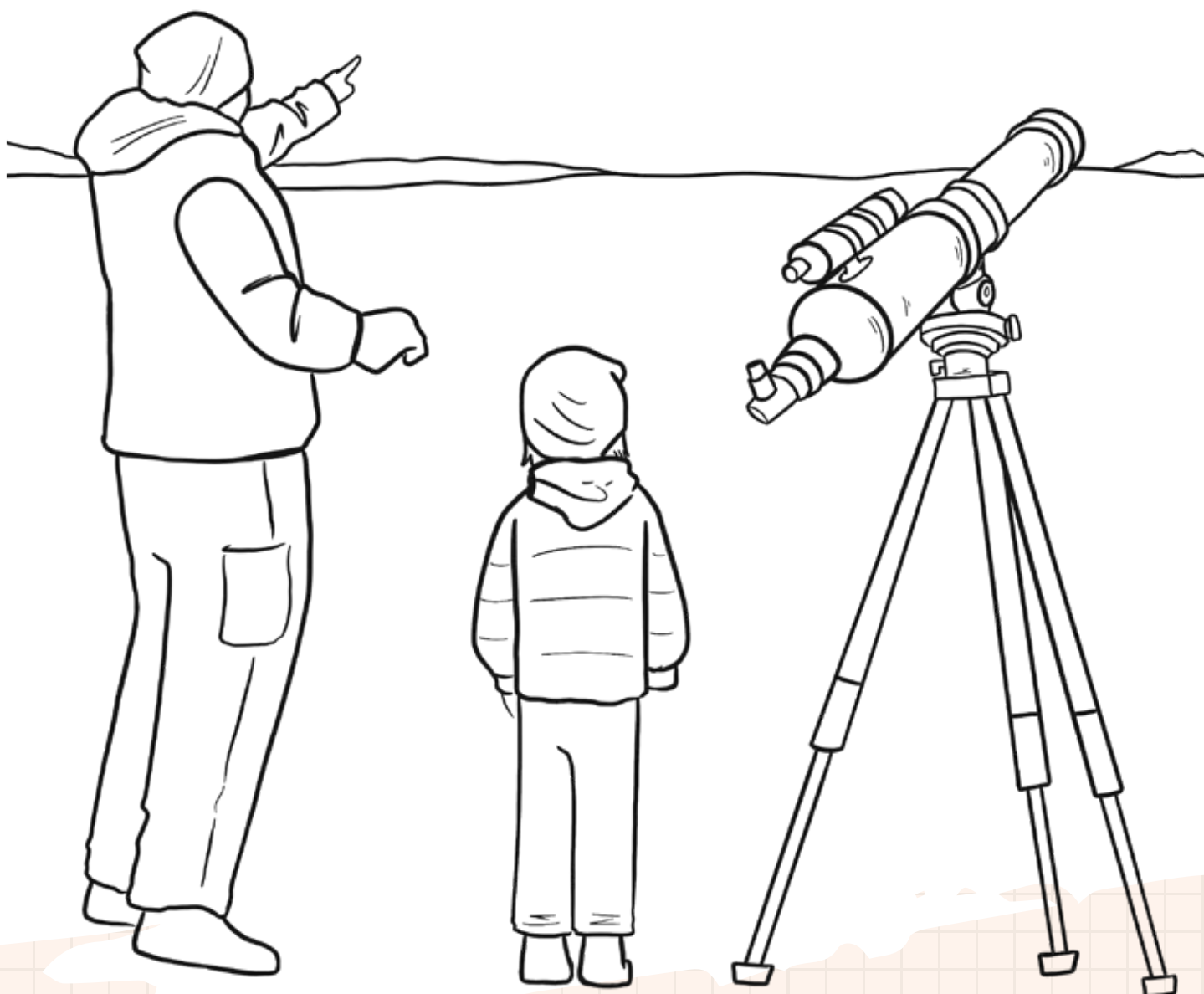


## Stars



## A Bit About Stars:

As you color the picture of this family stargazing, use the stickers on page 261 to add some constellations!





## Did you know?

Try to answer these questions about stars with your parents. If you don't know the answer, ask them to help you find out!

 What is the closest star to Earth?

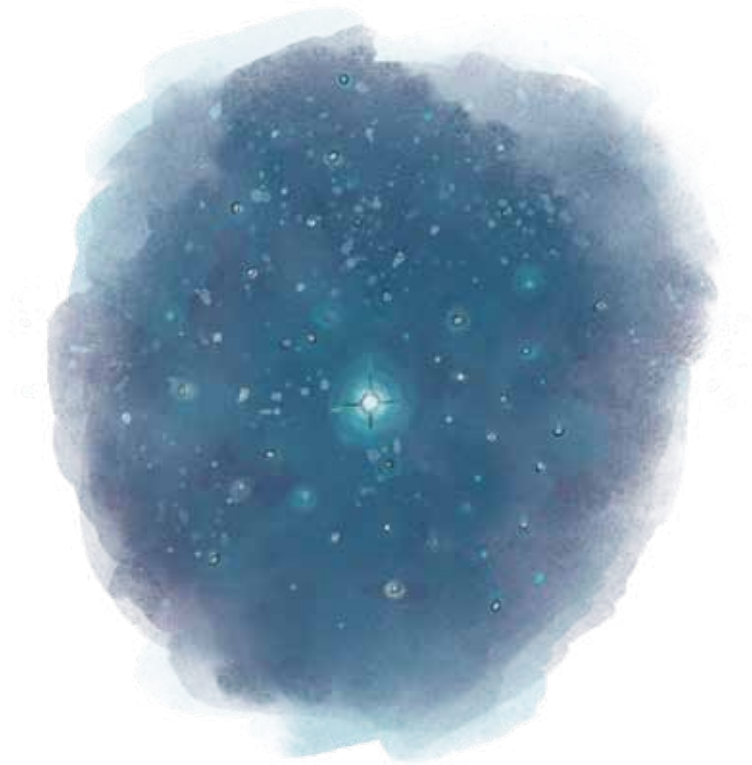
 What is the name of our galaxy?

 Why can you only see most stars at night?

 How did the stars get there?

## Nature Fact:

Some supergiant stars are nearly as big as our solar system!



# FIELD TRIP

## On Your Adventure:

What did you see in the sky? Could you count all the stars?  
Draw any constellations, stars, or planets you discovered.

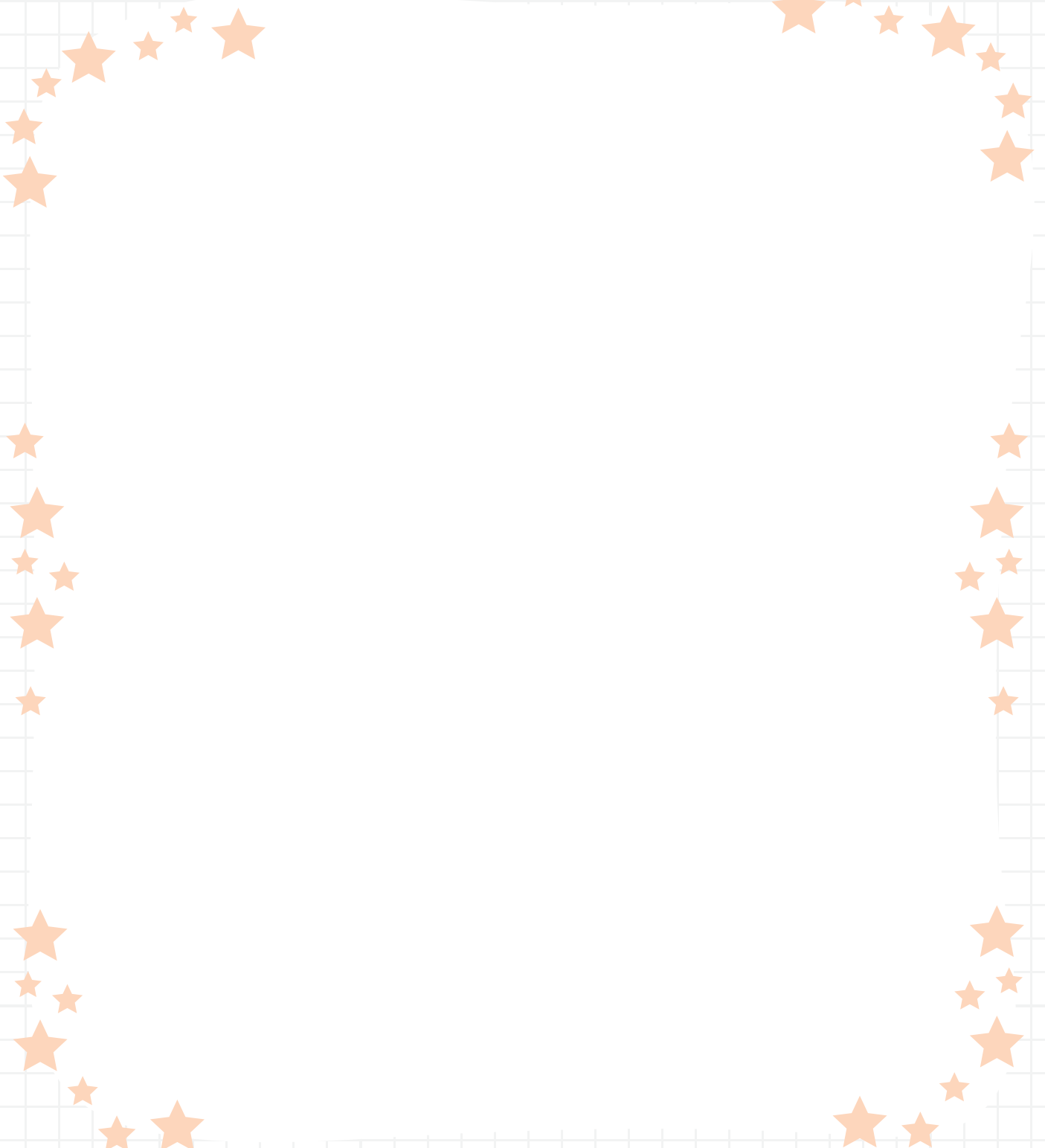




## At Home:

Stars are beautiful displays of God's power!

Draw something new that you learned on this field trip or draw your favorite part.



Color the Supernova.



What can this adventure teach you about God?  
Tell someone your answer.



Struggling to choose the right homeschool curriculum for your kids that not only educates but also inspires them with hands-on learning? *Backyard and Beyond* offers a field trip-centered curriculum that immerses your students in God's creation by exploring history, geography, science, and more. Watch your students thrive as they learn through real-world exploration and discovery with *Backyard and Beyond*.

