




## Second Grade Science Distance Learning Opportunities

**Directions: Read the description. Complete each activity.**

<p style="text-align: center;"><b>Activity</b></p> <p style="text-align: center;"></p>	<p style="text-align: center;"><b>Observe and Measure Plants</b></p> <p><b>TASK:</b></p> <ol style="list-style-type: none"> <li>1. Using pictures, house plants or plants outside your house to observe and compare two plants.</li> <li>2. Make a chart to observe and measure details, such as height, color, number of leaves and other details you choose.</li> <li>3. Summarize how the two plants are alike and different.</li> </ol>
<p style="text-align: center;"><b>Activity</b></p> <p style="text-align: center;"></p>	<p style="text-align: center;"><b>Plan an Investigation</b></p> <p><b>Question:</b> How can you move a ball without touching it with your body?</p> <p><b>TASK:</b></p> <ol style="list-style-type: none"> <li>1. Plan an investigation to demonstrate your answer to the question. Write a sentence for each step you do.</li> <li>2. Be sure to use words such as motion, push, pull, and force as you plan your investigation.</li> </ol>
<p style="text-align: center;"><b>Activity</b></p> <p style="text-align: center;"></p>	<p style="text-align: center;"><b>Play Ball</b></p> <p><b>TASK: BE SURE TO GET PARENT/GUARDIAN PERMISSION</b></p> <ol style="list-style-type: none"> <li>1. Go outside with a soccer ball or kick ball with a parent or sibling.</li> <li>2. Take turns throwing and kicking the ball.</li> <li>3. Identify each motion as with a push or pull.</li> </ol>

## Moon Phases

Name \_\_\_\_\_

**Directions:** You have practiced scientific observation to look for patterns in nature. What pattern did you discover about the appearance of the moon's shape over time? Use the 4 boxes to draw an example of that pattern. Write an explanation of the pattern on the lines. Use notebook paper if you need more writing space.

1

2

3

4

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## Seasons

Name \_\_\_\_\_

**Directions:** You have practiced scientific observation to look for patterns in nature. What pattern did you discover about the length of day and seasons? Use the 4 boxes to draw an example of that pattern. Write an explanation of the pattern on the lines. Use notebook paper if you need more writing space.

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Name: \_\_\_\_\_

Date: \_\_\_\_\_



# The Sun: Our Closest Star

Why does the night sky look so different than the daytime sky? All of the stars that we see in the night sky look tiny. They are very far away from us and scattered all throughout the galaxy. If one of those stars was very close to us it would look very different. In fact there is a star that is close to Earth and we call it the Sun. The Sun is 93 million miles from the Earth and is Earth's closest star. The Sun is actually a star, but we are so close to it that when Earth is facing the Sun, it lights up the entire sky. When the Earth is not facing the Sun, we can see many other stars in the sky because our Sun isn't in the way. The reason we can't see stars during the daytime is because our Sun is too big, too bright and too close to us to see any stars behind it.

## Read and Respond:

1) What do we call Earth's closest star?

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2) How far away is the Sun from Earth?

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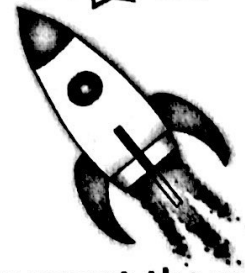
3) Why can't we see stars during the daytime?

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Name: \_\_\_\_\_

Date: \_\_\_\_\_



# Constellations

There are so many stars in the sky that you could never count them all! There are simply too many to count. Although they are scattered all over the sky in no neat order, some of them are much brighter than others and they seem to create a pattern when we look at them. These patterns are called constellations. A constellation is a pattern of stars in the sky. People have told stories about star patterns in the sky since the beginning of time. Some of these patterns were thought to be gods or heroes of a culture. Others were looked at as bad signs or people who have been placed in the stars because they were being punished. Some famous constellations are the big dipper, the little dipper, Orion, Hydra, Scorpius and Taurus.

## Read and Respond:

**1) Could you ever count all the stars in the sky?**

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**2) What is a constellation?**

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**3) Name three famous constellations.**

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Name: \_\_\_\_\_

Date: \_\_\_\_\_



## Career Spotlight: Astronomer

Have you ever looked into a telescope at the stars? An astronomer is a scientist who studies stars and outer space. They look for comets and meteors and they also study planets and moons. Astronomers have very powerful telescopes that help them study objects in the sky. Would you like to be an astronomer someday? If so, what would you like to study?

**Would you like to be an astronomer? Explain why or why not.**

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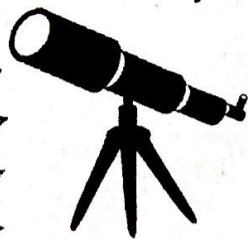
**Imagine you discovered a star or a planet:**

**What would you name it?** \_\_\_\_\_

**How did you discover it?** \_\_\_\_\_

**Tell a fact about your star or planet:** \_\_\_\_\_

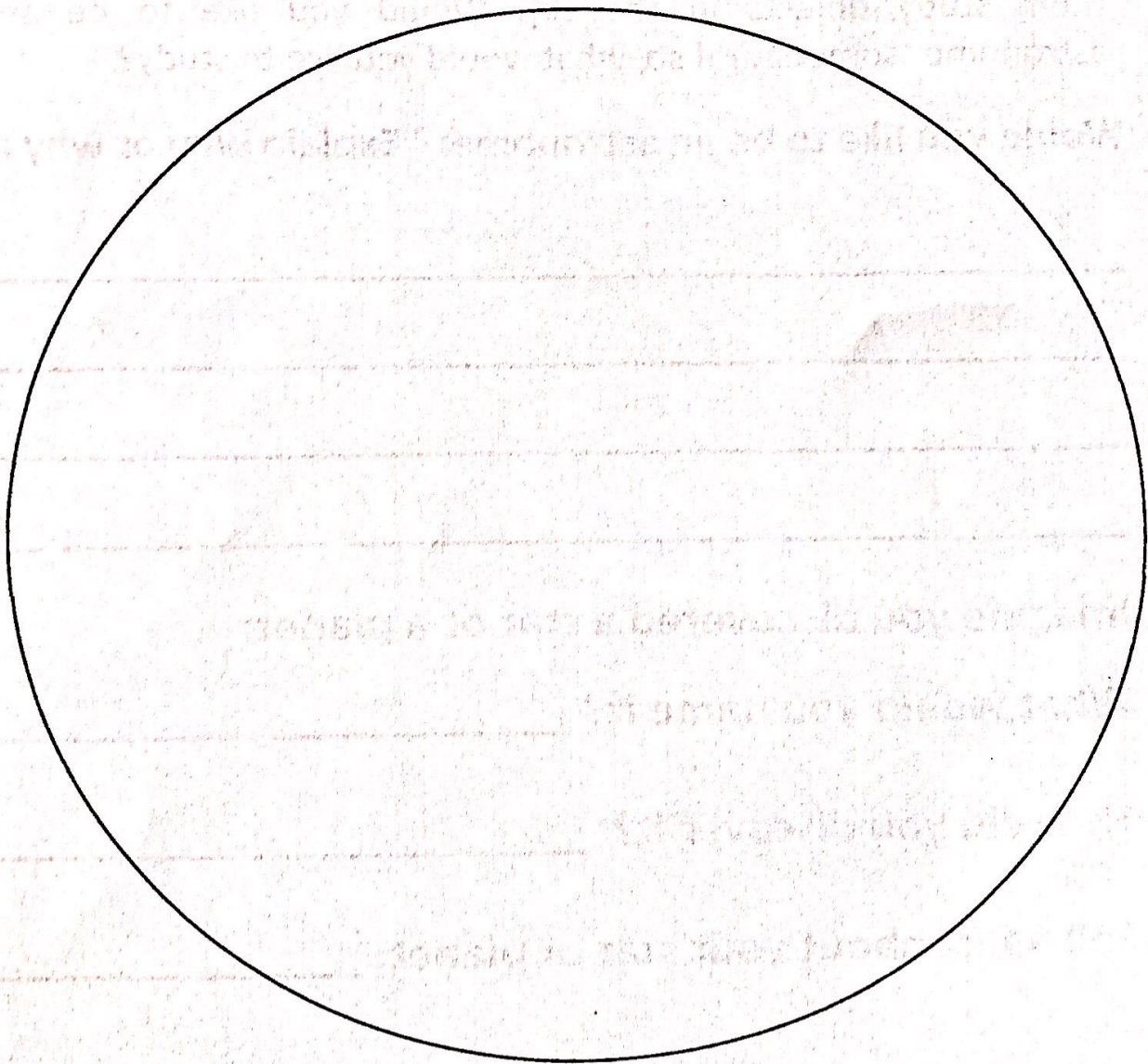
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# Career Spotlight: Astronomer



Draw a picture of your star or planet in the space provided.



## **Could a statue's shadow move?**

**Mystery Science Activity Link:** <https://mysteryscience.com/sky/mystery-1/sun-shadows-daily-patterns/82?code=NzMyODM1NjI&t=student>

After watching the video, complete the gnome shadow activity. Please see instructions below.

### **Gnome Shadow Activity:**

1. Cut out the paper gnomes. Fold on the solid lines at his feet and the tip of his hat.
2. Overlap the flaps at the gnome's feet and tape him to the rectangle on the Shadow Pattern.
3. Tape the Shadow Pattern down to a table or desk.
4. Put a flashlight beside the gnome.

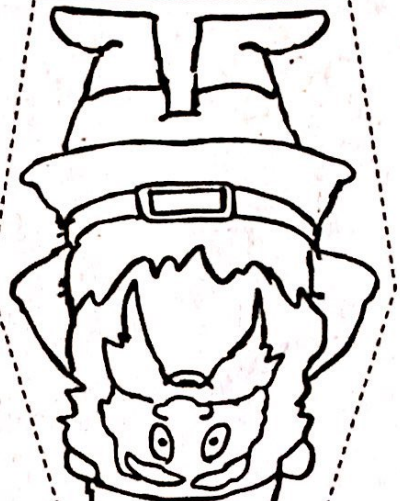
Your goal is to figure out how to make the gnome's shadow move to align with the different shadow patterns on the print out. You cannot move the gnome or the paper. Make sure you go in order of the shadows on the page.

Questions (Please answer on a sheet of notebook paper):

1. What causes a shadow?
2. How did you make the shadow move and change?
3. How does the position of the sun in the sky affect shadows?

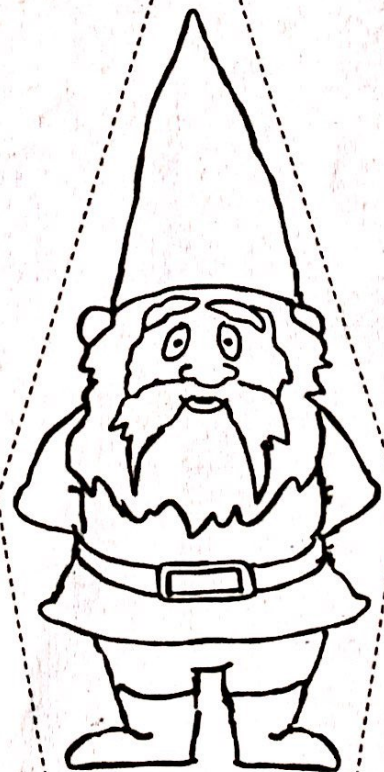
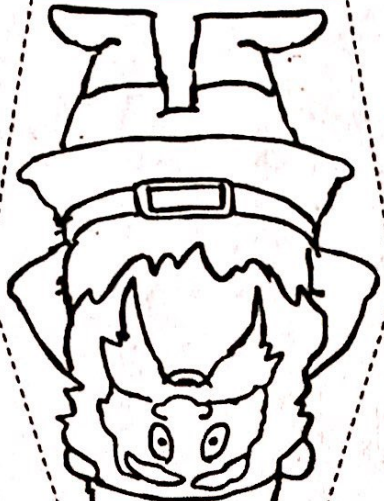


**MYSTERY**  
science



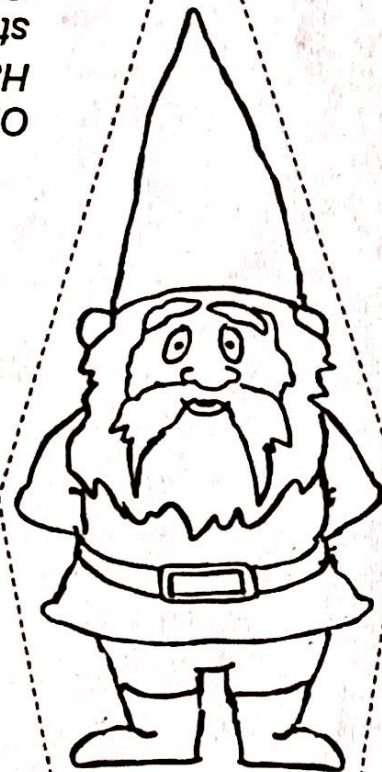
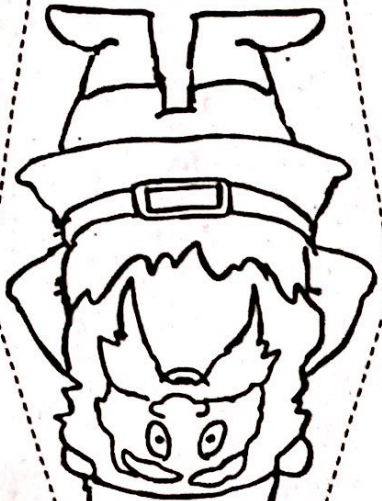
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Spinning SKY | Mystery 1

OPTIONAL:  
Have a few  
students  
COLOR these  
before you  
fold them up



