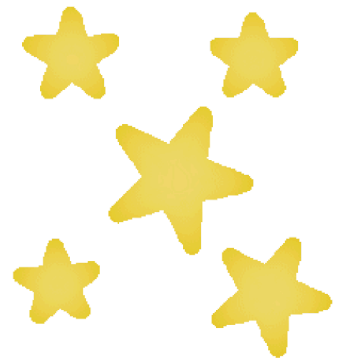
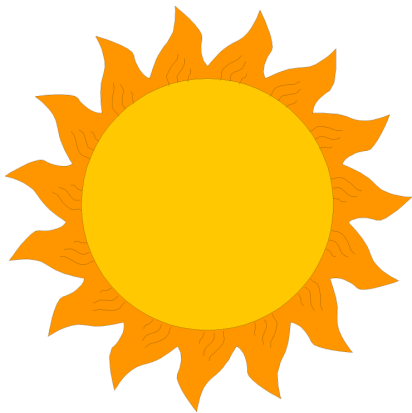


# **1<sup>st</sup> Grade Science Journal**

## **Space Systems: Sun, Moon, and Stars**

**Trimester 1**

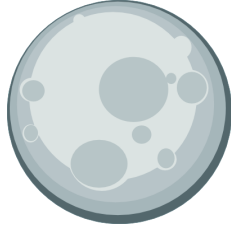


Name: \_\_\_\_\_

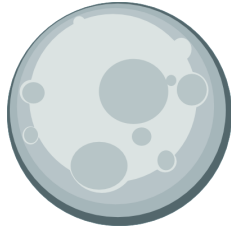
Name: \_\_\_\_\_

Different things can be seen in the sky.

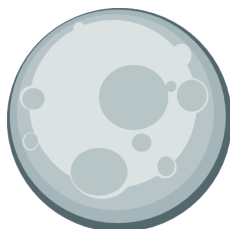
1. Which of these can only be seen in the day time?



2. Which of these can only be seen at night?



3. Which of these can be seen in the both the day and night?



Explain your thinking. How did you decide when you could see different things in the sky?

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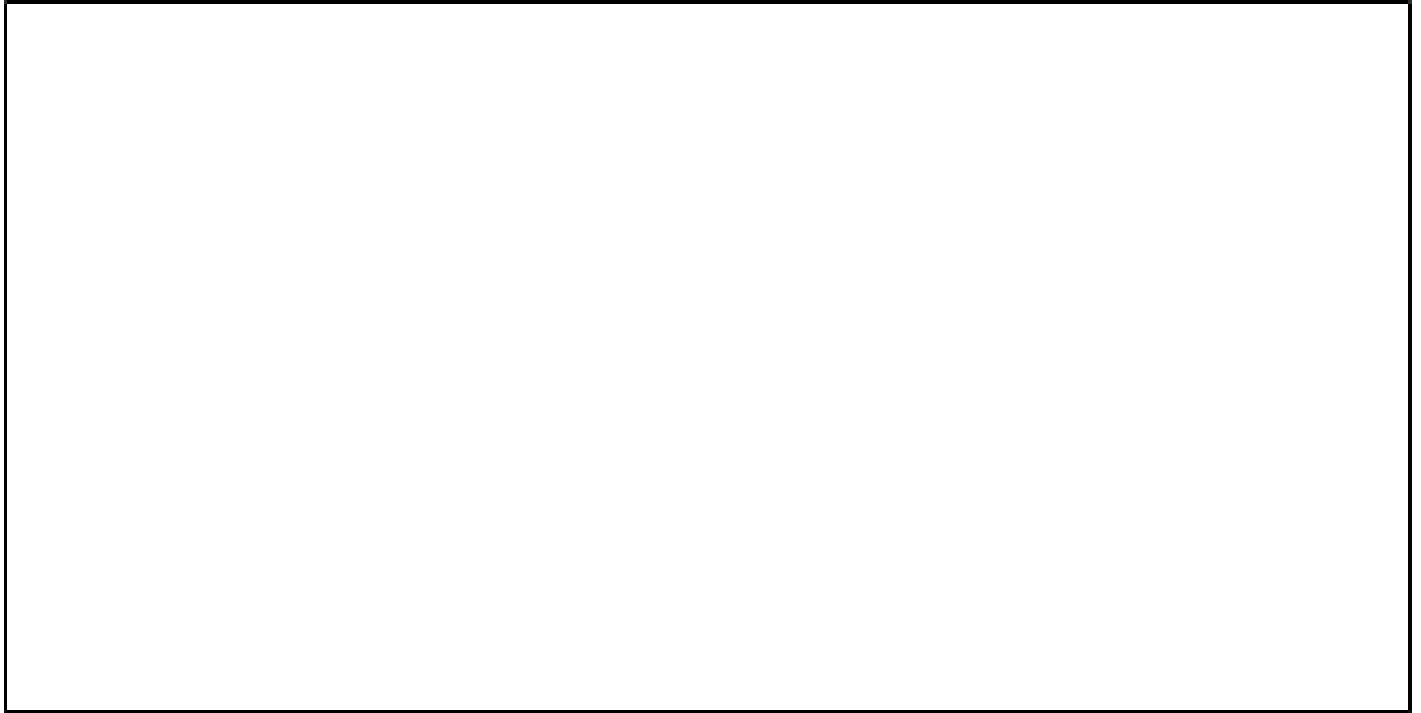
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# Station 1: Shadows

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**I observed** \_\_\_\_\_

\_\_\_\_\_

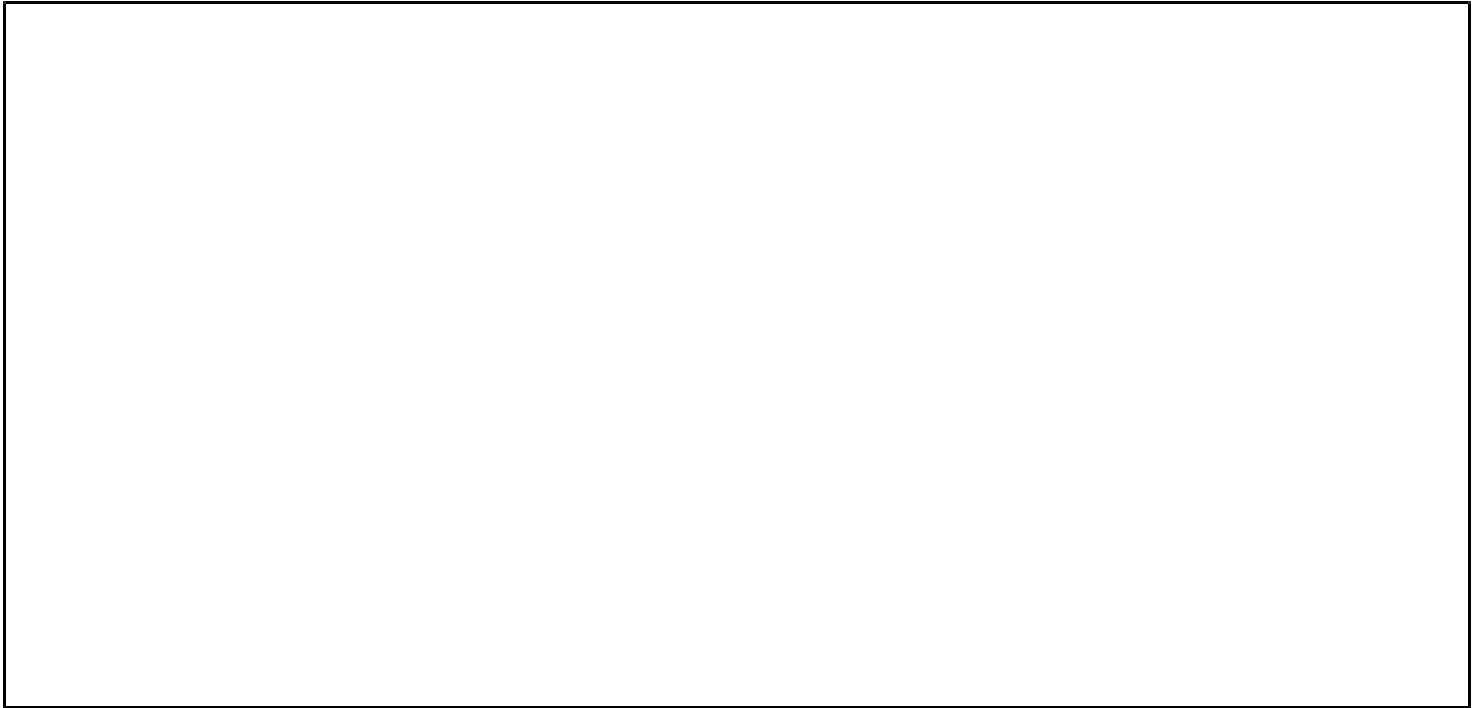
\_\_\_\_\_

**I wonder** \_\_\_\_\_

\_\_\_\_\_

## Station 2: Making Patterns

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**I observed** \_\_\_\_\_

\_\_\_\_\_

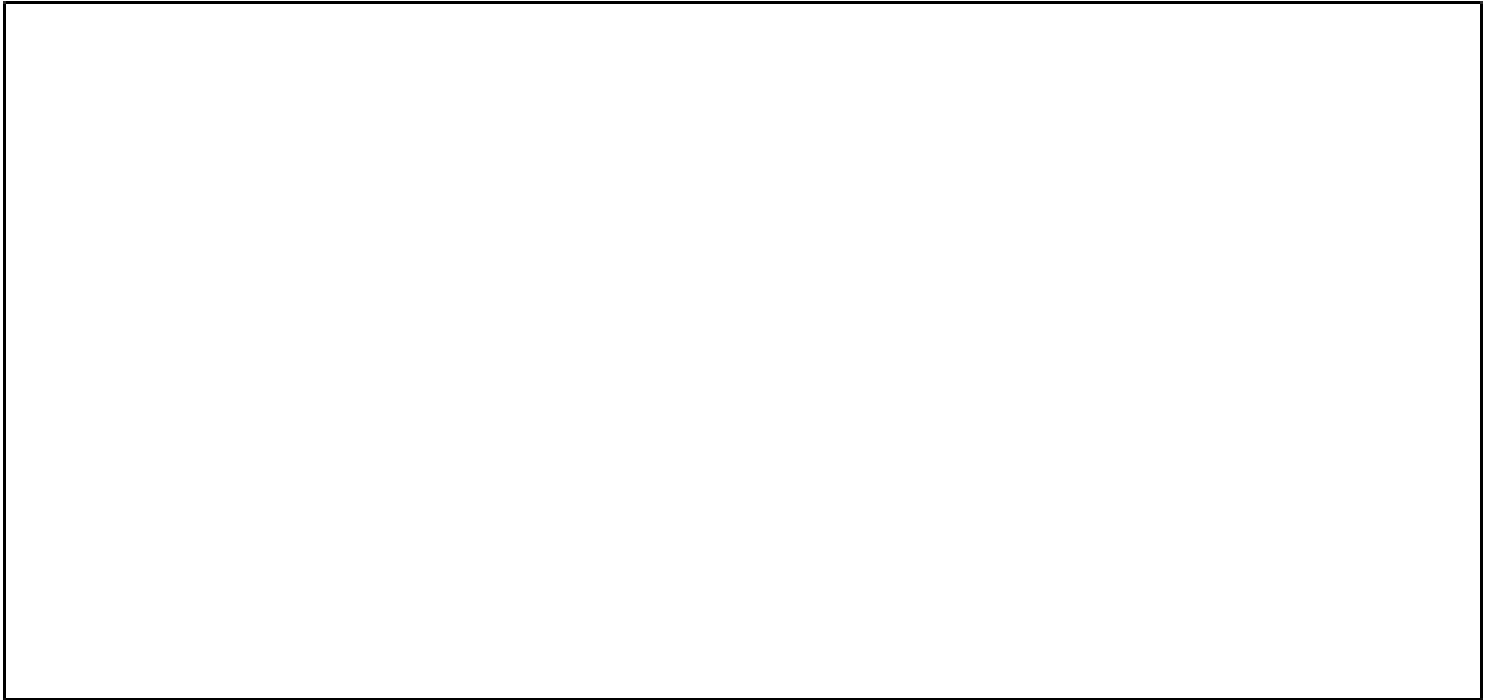
\_\_\_\_\_

**I wonder** \_\_\_\_\_

\_\_\_\_\_

## Station 3: Observing Patterns

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**I observed** \_\_\_\_\_

\_\_\_\_\_

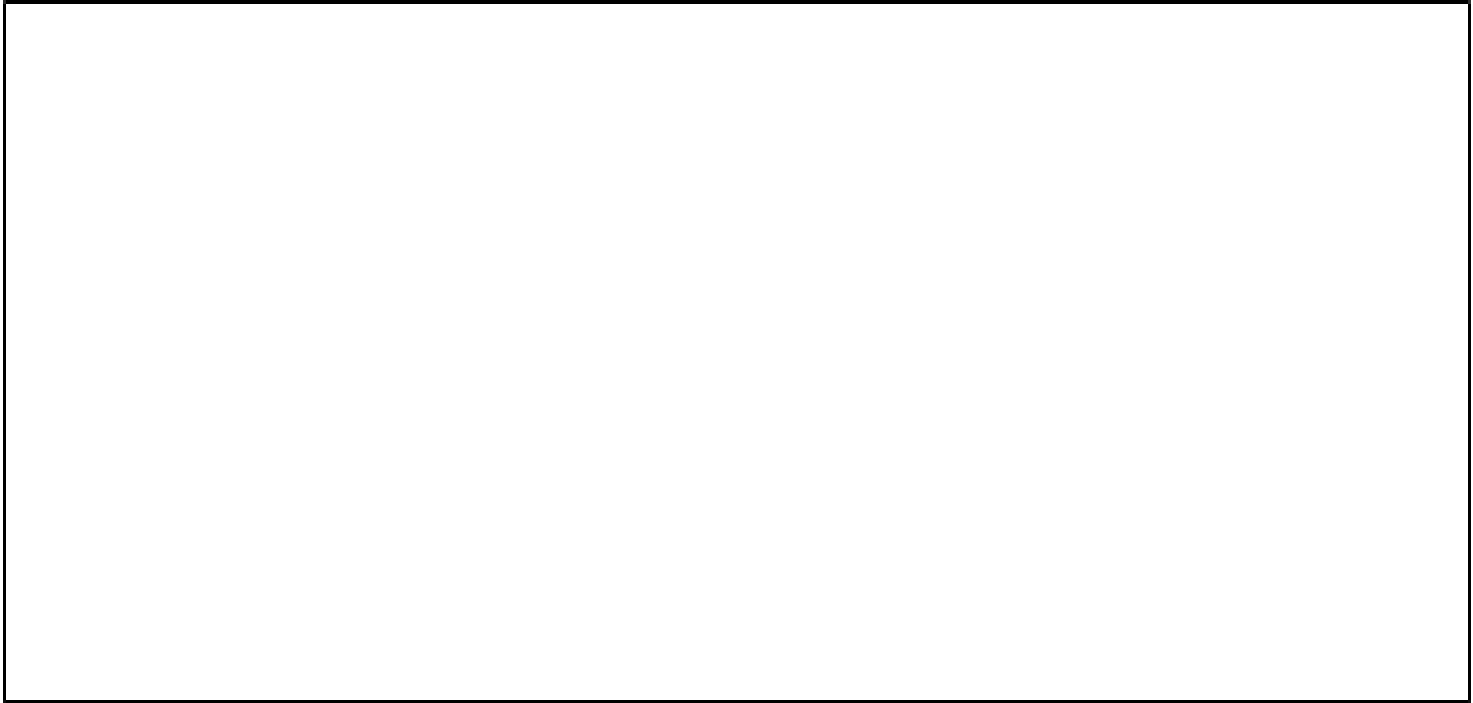
\_\_\_\_\_

**I wonder** \_\_\_\_\_

\_\_\_\_\_

## Station 4: Day and Night

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**I observed** \_\_\_\_\_

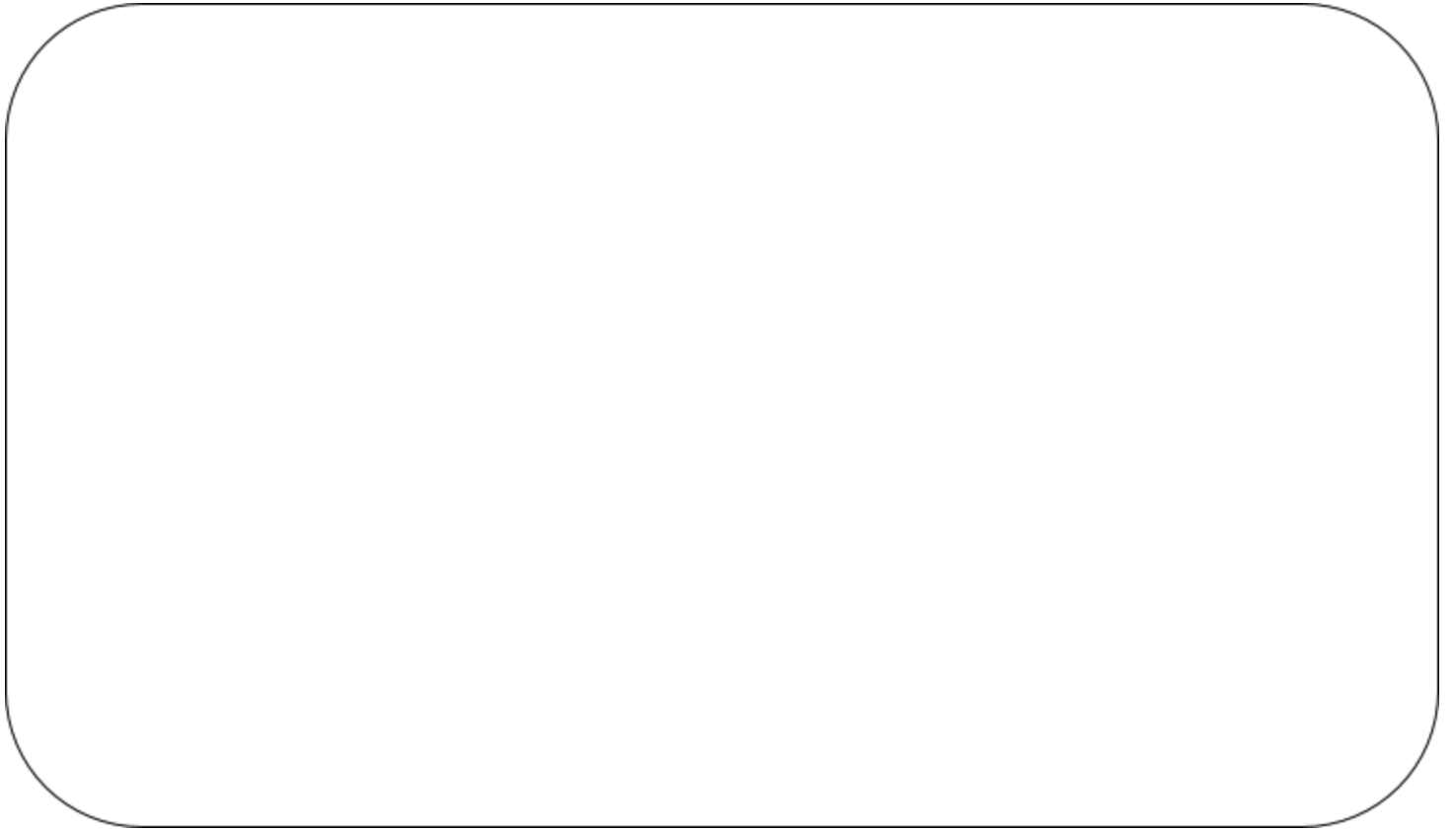
\_\_\_\_\_

\_\_\_\_\_

**I wonder** \_\_\_\_\_

\_\_\_\_\_

# Sun Video Observation



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# Big Question #1:

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## My Findings

## Big Question #2:

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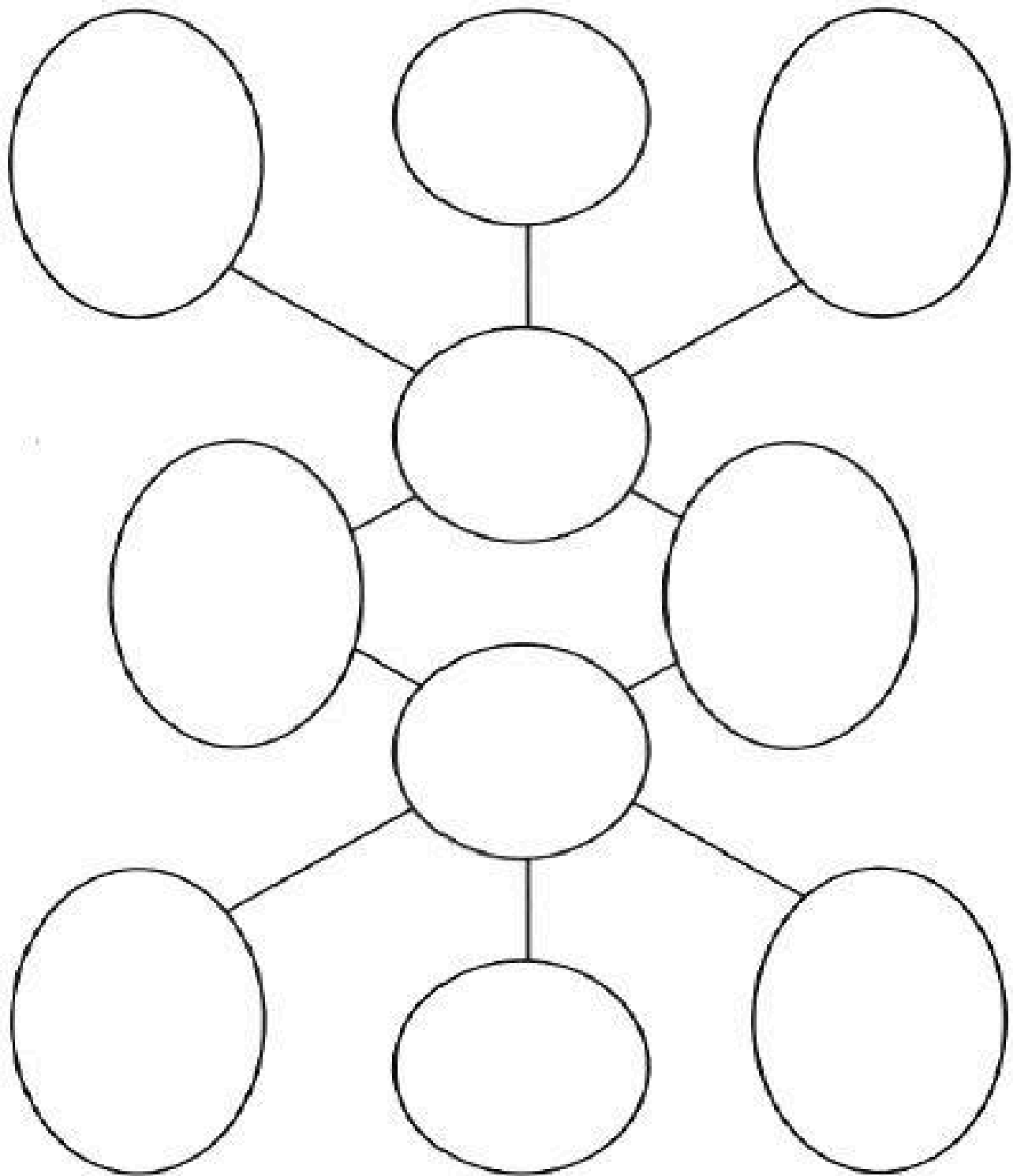
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### My Findings

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

## Concept Map

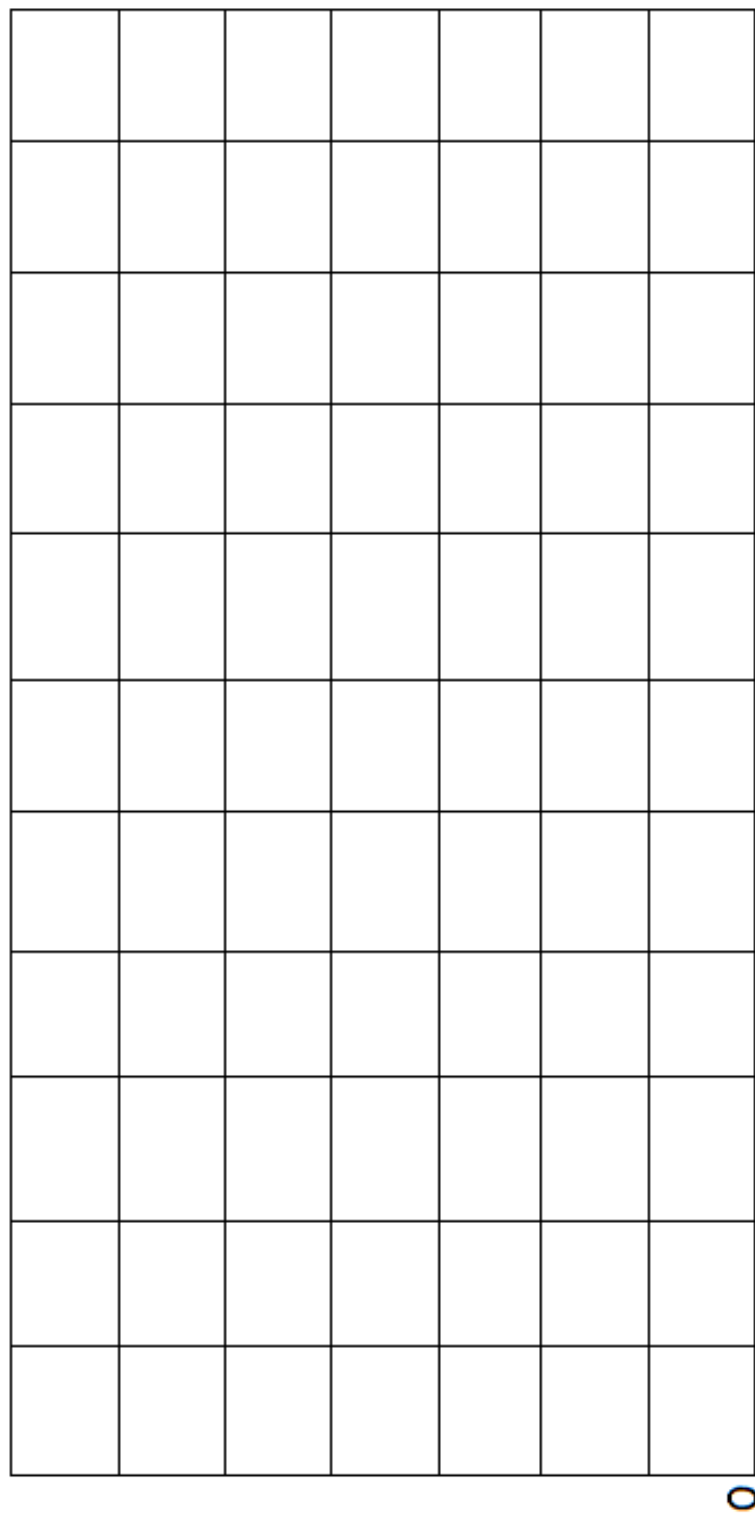


## Investigation 1: Patterns of the Sun

Time:	Location of the Sun: 	Length of shadow in inches: (connecting cubes/color tiles)  _____
Time:	Location of the Sun: 	Length of shadow in inches: (connecting cubes/color tiles)  _____
Time:	Location of the Sun: 	Length of shadow in inches: (connecting cubes/color tiles)  _____
Time:	Location of the Sun: 	Length of shadow in inches: (connecting cubes/color tiles)  _____

# Length of Shadows Graph

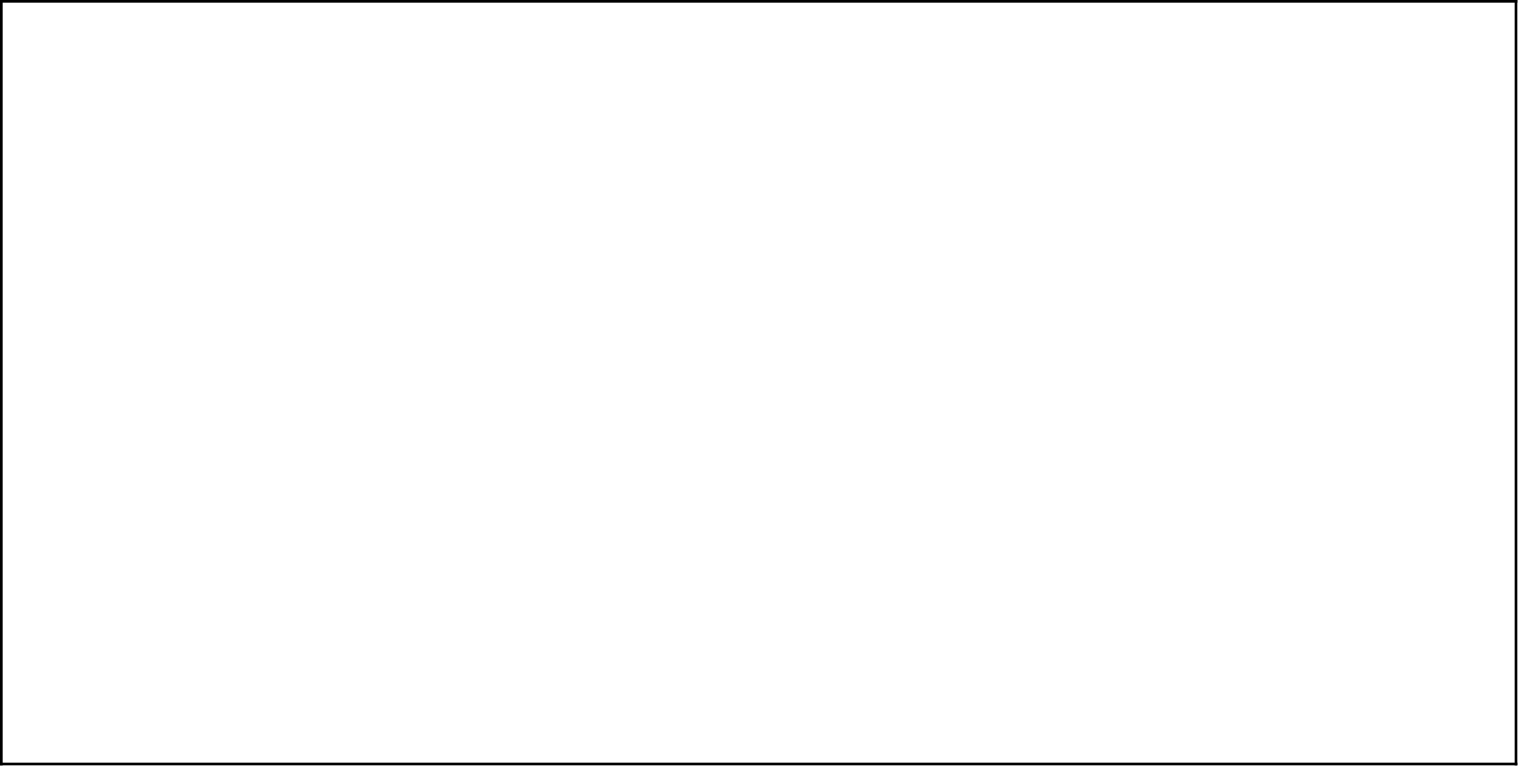
Length of Shadow (nearest inch)



0



Time of Day



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CLAIM:

I support the claim

Because

Now that you have Checked With the Experts use what you have learned to adjust your claim. Please include the following vocabulary words in your drawing and writing.

day	night	position	rise	set
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My revised claim is

Because



Post-Test



In the picture above the sun is setting (going down at the end of the day). Will the sun go down in the same place tomorrow?

Claim #1	Claim #2
No, the sun goes down in different places every day.	Yes, the sun sets in the same place every day.

Do you support Claim #1 or Claim #2 \_\_\_\_\_

Why do you support that claim?

Why do you **NOT** support the other claim?

# Investigation 2: Patterns of the Sun, Moon, and Stars

<div><div>K</div><div>What do we think we know?</div></div>	
<div><div>L</div><div>What are we learning?</div></div>	
<div><div>E</div><div>Evidence Observation/data</div></div>	
<div><div>W</div><div>Wonderings?</div></div>	
<div><div>S</div><div>Science words</div></div>	

[illegible]

CLAIM:

I support the claim

Because

Now that you have Checked With the Experts use what you have learned to adjust your claim. Please include the following vocabulary words in your drawing and writing.

<b>daylight</b>	<b>sunrise</b>	<b>sunset</b>
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My revised claim is...

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Because

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Which part of the year has more daylight?

Claim #1	Claim #2
The summer has more daylight than winter.	The summer has the same amount of daylight as winter.

Do you support Claim #1 or Claim #2 \_\_\_\_\_

Why do you support that claim?

Why do you **NOT** support the other claim?

## Engineering Challenge:

**CHALLENGE:** What if no one had a watch or the clocks and bells did not work at school for a whole day. How would we know when it's time for school, or when to go to lunch, or when to go home for the day? Based on what we have learned about the patterns of the sun's position throughout the day, how could we use the sun to help us with telling time?

**Plan:** Create a plan. What will it look like?

<p>Draw</p>	<p>Write</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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**Materials:** What will you need to create your project?

<p>Draw</p>	<p>Write</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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Multimodal Writing:

day	night	position	rise
set	sunrise	sunset	daylight

Write and draw about your engineering project. Did it work? Explain your thinking using evidence.