



WHAT DID SNICKERS DISCOVER?



Snickers thought something mysterious was happening to the moon.

Some nights it looked big and round.

Other nights, only part of it seemed to be there.

And sometimes, it looked like just a tiny crescent.

But Snickers discovered something important...



THE MOON WASN'T DISAPPEARING AT ALL!



- ★ The moon does **not** make its own light. The light we see on the moon comes from the sun.
- ★ At all times, the sun illuminates half of the moon. But as the moon travels around Earth, we see different amounts of that illuminated half.
- ★ Sometimes we see almost all of it.
- ★ Sometimes we see about half.
- ★ Sometimes we see only a thin crescent.



These different appearances are called:

MOON PHASES

The moon itself is **not** changing shape.

What changes is how much of its **sunlit half** we can see from Earth.



SNICKERS DISCOVERED...

Something can look like it is changing—even when something else is causing the change.

That's why Snickers kept observing, comparing, asking questions, and experimenting until she understood what was really happening.

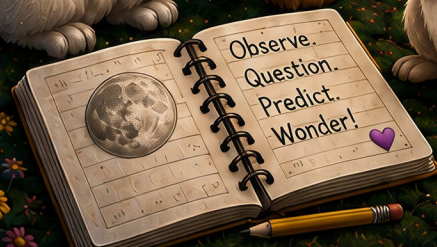


AND NOW...

IT'S YOUR TURN TO DISCOVER!

Snickers has finished her investigation.

But your **Discovery Missions** are just beginning.





WONDER WALK™

FOLLOW THE MOON

You experimented with **your own moon**.
Now it's time to find the **real one**!

Grab a grown-up, step outside, and look up.
Just like Snickers, you're going to become
a **moon observer**.



YOUR WONDER WALK

1 Pick an evening.

Go outside with a grown-up when the moon is visible.
Find a safe place where you can get a good
look at the sky.



2 Find the moon.

Look carefully. Where is it in the sky?
Is it high, low, or somewhere in between?



3 Study its shape.

How much of the moon's sunlit side
can you see?
Does it look round, like half a circle,
or like a thin crescent?



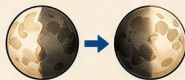
4 Look again another evening.

Come back on several different evenings.
When possible, observe at about the same time—
but don't worry if the moon isn't visible yet.



5 Compare what you see.

Does the moon look exactly the same—
or has something changed?



SAFETY TIP: Always do your Wonder Walk™
with a grown-up and observe from a safe place.



SNICKERS' WONDER CHALLENGE

Snickers noticed that the moon
didn't look the same every night.

**How many changes can
YOU discover?**

Bring your observations with you
to **My Discovery Journal** and
record what you find.



BE A MOON DETECTIVE

Each time you look, ask yourself:

- ★ What shape does the moon look like tonight?
- ★ How much of its sunlit side can you see?
- ★ Where is it in the sky?
- ★ Does it look different from the last time I observed it?
- ★ What do I think it will look like next time?



MAKE A PREDICTION

Before your next Wonder Walk™, make a guess:

**Do you think you will see more of
the moon's sunlit side, less of it,
or about the same amount?**

Don't worry about being wrong.
Scientists make predictions so they can
compare what they thought might happen
with what they actually observe.



REMEMBER



The moon isn't really changing shape.
The sun always illuminates half of the moon.
As the moon travels around Earth,
we see different amounts of its sunlit half.



**Keep looking. Keep asking questions.
Keep wondering. ♥**



MY DISCOVERY JOURNAL MOON WATCH

Luna keeps a notebook of the things she discovers. Now you can, too!

Take this journal with you on your **Wonder Walks™**.

Each time you observe the moon, draw the shape you see
and write down what you notice.

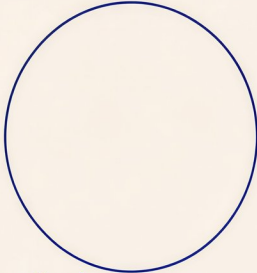
There are no wrong drawings. Record what **YOU** observe!



OBSERVATION 1

Date: _____

Time: _____



Draw the moon's shape:

Where in the sky?

☐ Low ☐ Middle ☐ High

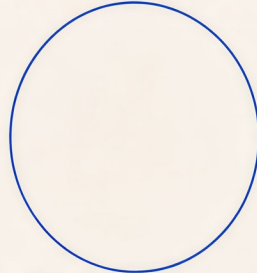
I noticed: _____



OBSERVATION 2

Date: _____

Time: _____



Draw the moon's shape:

Where in the sky?

☐ Low ☐ Middle ☐ High

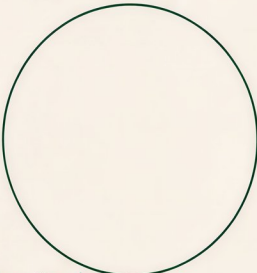
I noticed: _____



OBSERVATION 3

Date: _____

Time: _____



Draw the moon's shape:

Where in the sky?

☐ Low ☐ Middle ☐ High

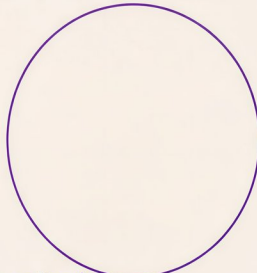
I noticed: _____



OBSERVATION 4

Date: _____

Time: _____



Draw the moon's shape:

Where in the sky?

☐ Low ☐ Middle ☐ High

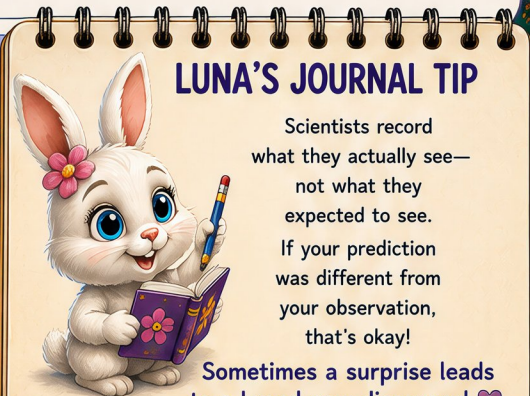
I noticed: _____



MY PREDICTION

Look at all four of your observations.
What do you think the moon will look like
the next time you see it?

Draw or write your prediction:



LUNA'S JOURNAL TIP

Scientists record
what they actually see—
not what they
expected to see.
If your prediction
was different from
your observation,
that's okay!

Sometimes a surprise leads
to a brand-new discovery! ♥





PROFESSOR HOOT'S OBSERVATION TIP

LOOK AGAIN!

Professor Hoot knows that great discoveries can begin with something very simple:

Looking carefully.

Sometimes we think we know what we saw after just one quick look. But scientists know a secret...

★ Look once. Then look again! ★



TRY THE HOOT METHOD

When you discover something interesting, ask yourself:

1 WHAT DO I SEE?

Describe only what you can actually observe.



2 WHAT DO I NOTICE?

Look for shapes, colors, movement, patterns, or changes.



3 WHAT CHANGED?

Compare what you see now with what you observed before.



4 WHAT DO I WONDER?

What new question does your observation make you want to ask?



THINK LIKE A SCIENTIST

Snickers thought the moon was disappearing.

★ But she kept looking.

★ She compared what she saw.

★ She asked questions.

★ She tried an experiment.

And eventually, her observations helped her discover what was really happening.



She looked.

She compared.

She asked.

She experimented.

She discovered!

PROFESSOR HOOT SAYS...

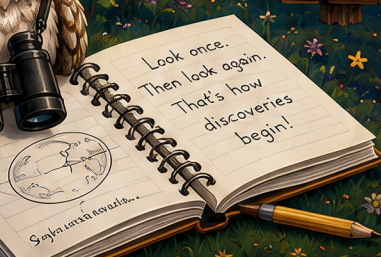
“ The first thing you notice might begin the mystery.
The second look might help you solve it. ”

So when something makes you curious...

Stop. Look closely. Look again.

And keep wondering. ♡

Curiosity
+ Careful
Observation
= Discovery!



★ KEEP WONDERING...

ONE DISCOVERY LEADS TO ANOTHER



✓ You followed Snickers on her adventure.



✓ You experimented with light and a model moon.



✓ You went outside and observed the moon.



✓ You recorded what you discovered.



✓ You made predictions.



✓ And you learned to look again.

But scientists know something important...



Every discovery can lead to a brand-new question.



YOU SOLVED ONE MYSTERY...

Now you know that the moon isn't disappearing.

The sun always illuminates half of the moon.

As the moon travels around Earth, we see different amounts of its sunlit half.

Those changing appearances are called **moon phases**.



WHAT ELSE IS WAITING TO BE DISCOVERED?



Why can we sometimes see the moon during the day?



Why does the moon seem bigger when it is near the horizon?



Why do some stars look brighter than others?



And what other mysteries might be hiding right outside your door?



SNICKERS HAS ONE MORE QUESTION...

“What should we wonder about next?”



Look around.



Look up.



Ask questions.



Make predictions.



Test your ideas.



And never stop being curious.



YOUR NEXT ADVENTURE AWAITS! ♥