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- 11. "Deep Impact" craters experiment
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- 14. "Moon" writing stationary
- 15. "Moon Pies" activity

Additional Literature Suggestions

What the Moon Is Like by Franklyn M. Branley

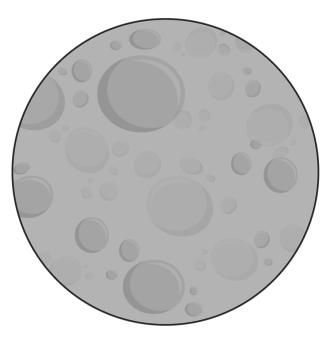
The Moon by Marc Singer

Phases of the Moon by Gillia Olson

The Moon Book by Gail Gibbons



# Moon



The moon is a satellite that orbits the Earth.

Standard

I can...

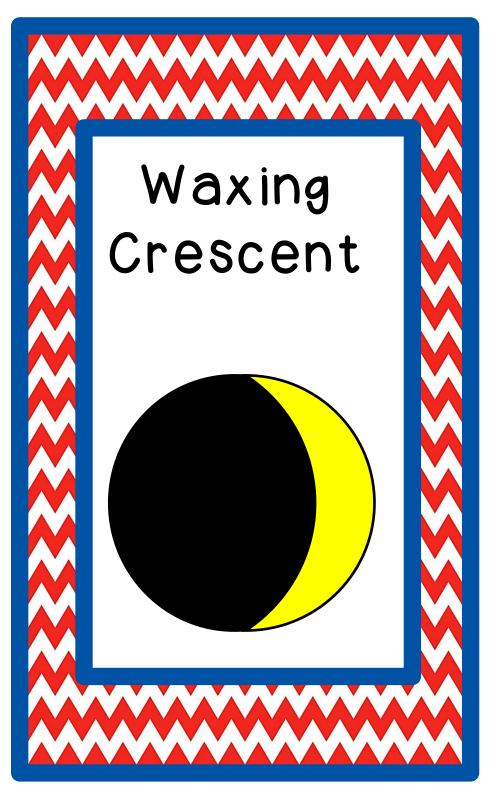
Use observations and charts to record the shape of the moon for a period of time.

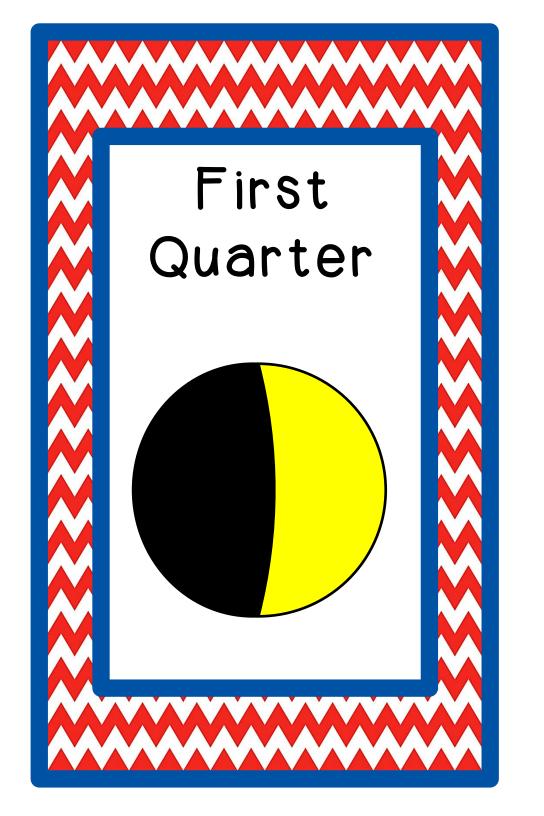
# Question

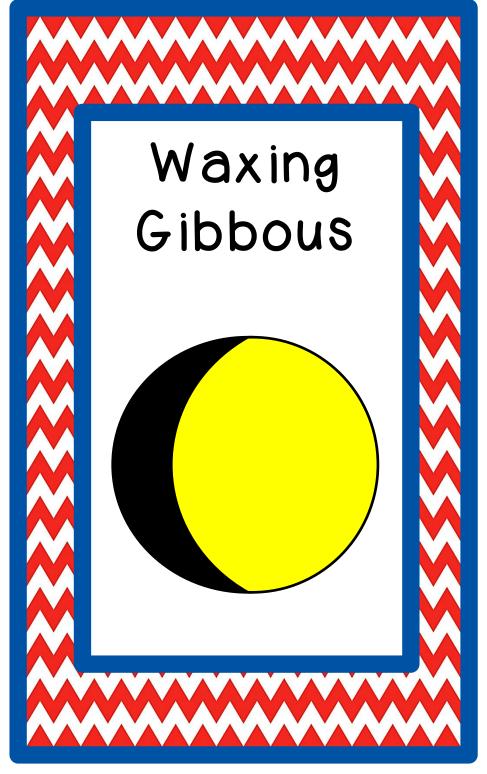
What is the moon?

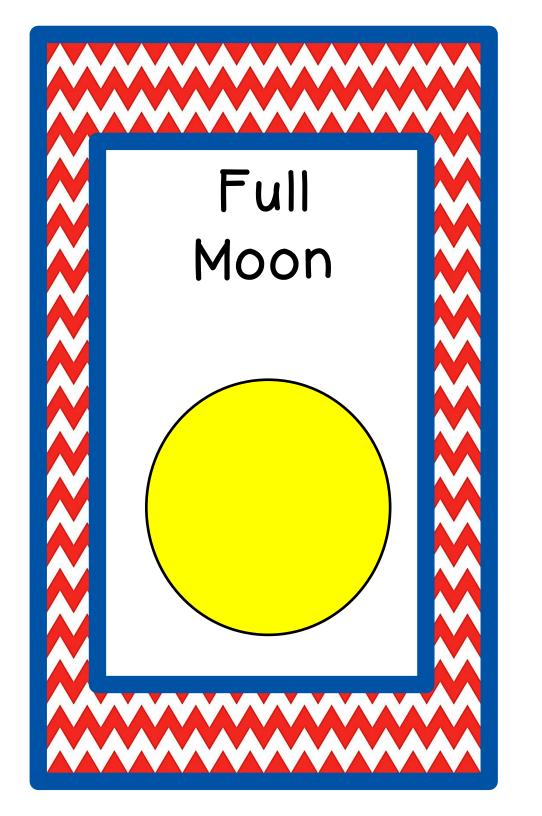
How does the moon appear to change over time?

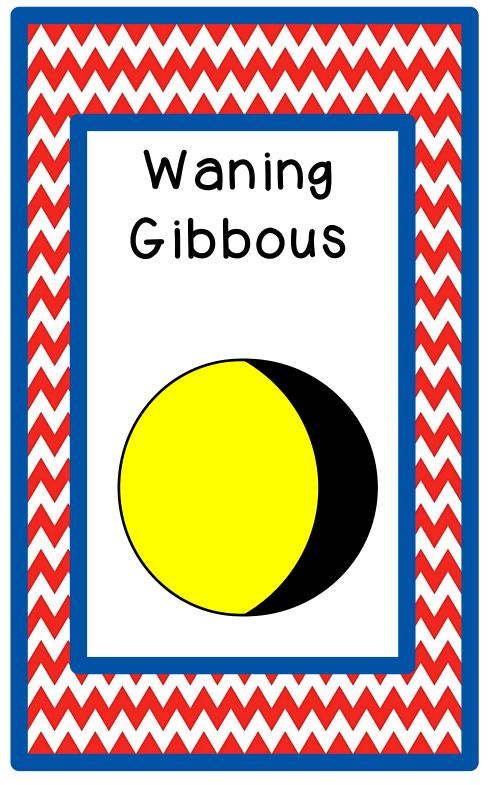


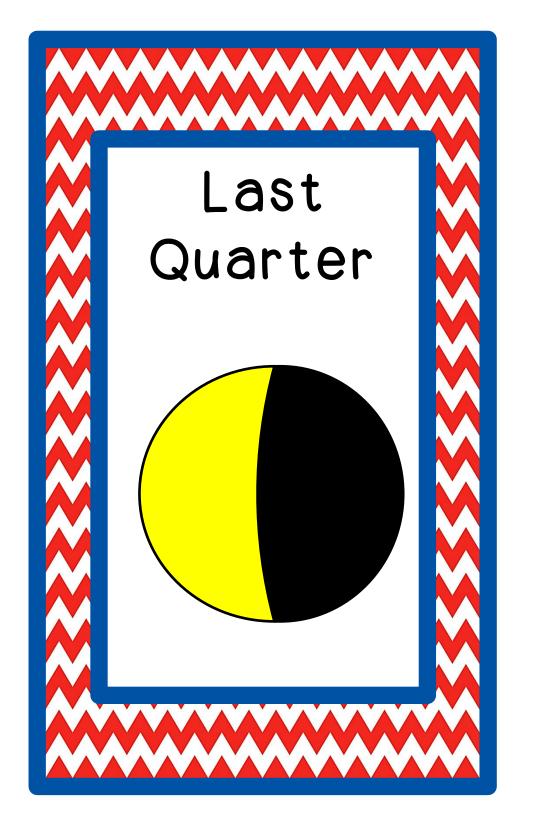


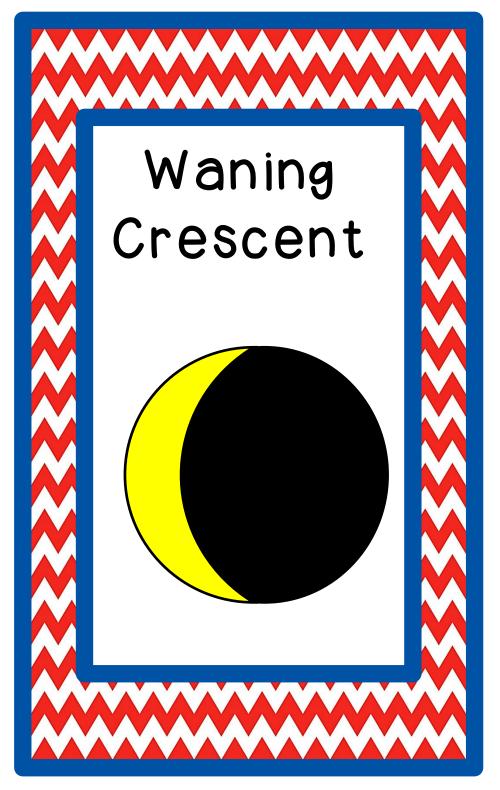


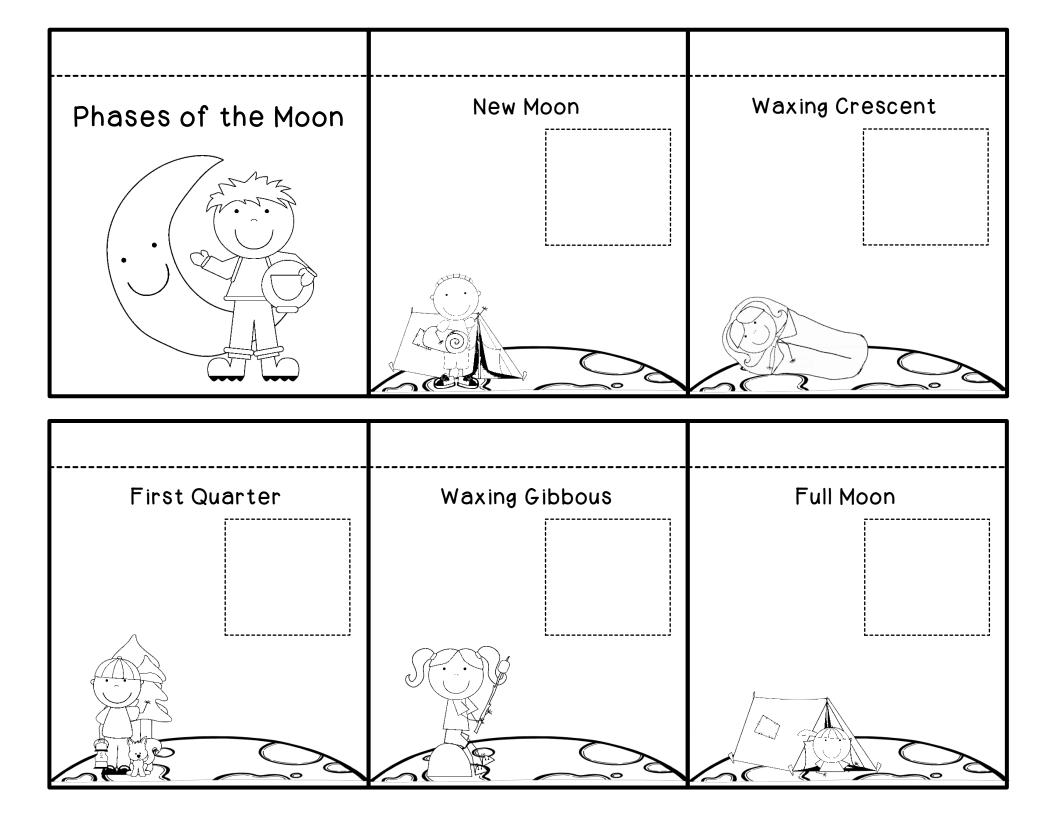


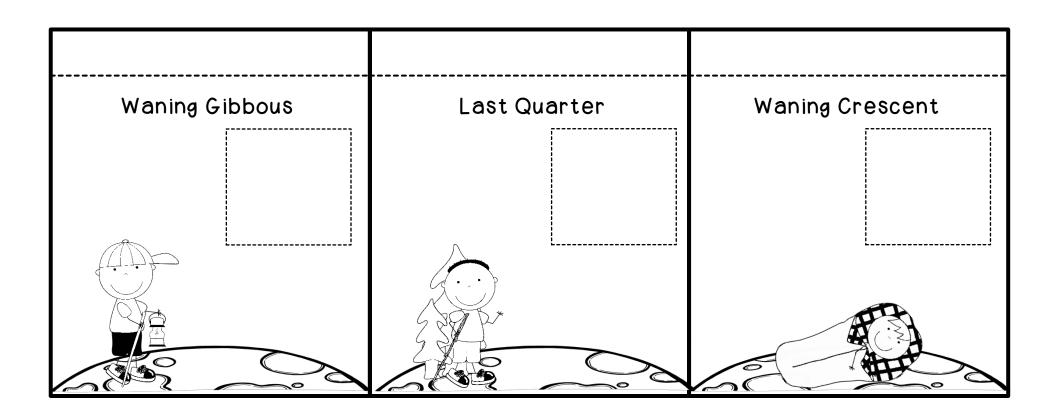




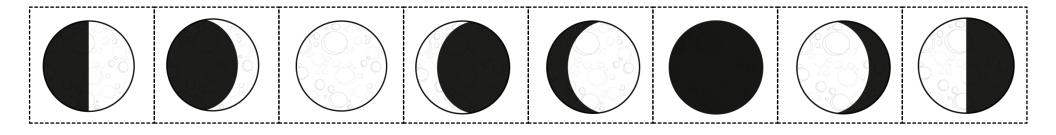








Cut apart the pictures below. Glue them on the correct page in the moon flipbook.



6.

### Glossary

<u>atmosphere</u>-the mass of air that surrounds a planet.

asteroid- a small planet.

astronaut- a traveler in a spacecraft.

<u>axis</u>- a straight line that an object rotates on.

<u>comet</u>- an object made of ice, dust, and rock.

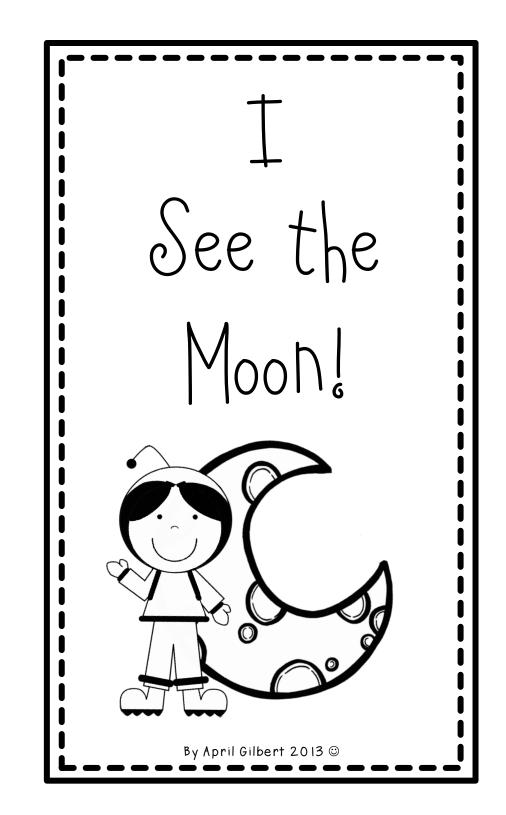
<u>crater</u>- a hole made by something crashing into an object.

<u>orbit</u>- the path of an object moving around another object.

phase- a part of a series or pattern of changes.

reflecting- to throw back waves of light.

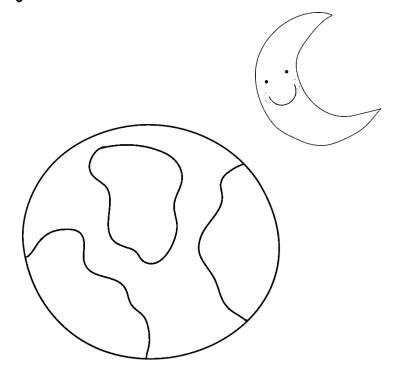
<u>satellite</u>- a heavenly body that orbits around a larger planet.



### What is the moon?

The <u>moon</u> is a natural <u>satellite</u> that orbits the Earth. A natural <u>satellite</u> is an object in space that <u>orbits</u>, or goes around, a planet.

There are many moons in our solar system, but only one moon orbits the Earth. Most of the time we can only see the moon at night, but the moon is always there. It is just usually too bright in the daytime to see it!



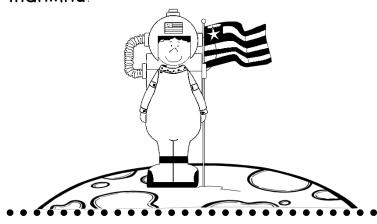
### Moon History

Scientists believe the Earth is 4.5 billion years old

In 1969, the Apollo 11 landed on the moon. This was the first time a human landed on the moon. When the <u>astronauts</u> landed the spacecraft on the moon they told mission control, "The eagle has landed."

The first person to walk on the moon was Neil Armstrong. He and his partner Buzz Aldrin spent time on the moon collecting dust and rocks.

They left an American flag on the moon that said, "We came in peace for all mankind."

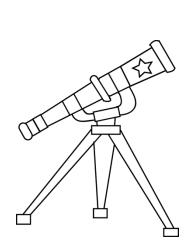


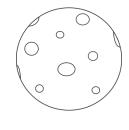
### Moonlight

The moon is not a source of light. This means that it does not make light. It does provide light in the night sky. This is because the moon is <u>reflecting</u> the sun's light.

Scientists talk about the light side and dark side of the moon. Actually, the sun shines on all sides of the moon. When scientists refer to the light side of the moon, they are talking about the side of the moon we see from Earth. The dark side is the side facing away from the Earth.

Because the moon rotates on its <u>axis</u> as it moves around the Earth we always see the same side!





2.

### The Moon's Surface

The moon is covered in dust. There are many <u>craters</u> in the moon's surface. These craters were formed when <u>comets</u> and <u>asteroids</u> crashed into the moon.

There is no <u>atmosphere</u> on the moon. This means there is no weather and no wind. Scientists can use telescopes to see the surface of the moon. Because there is no wind, they can still see the footprints that were left by the first astronauts who walked on the moon.

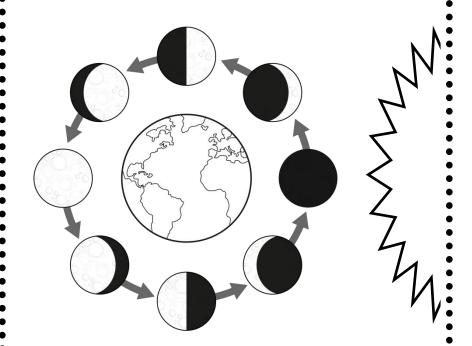
There are also mountains and huge rocks on the moon. The large dark spots that can be seen on the moon are called seas. These seas are not like our seas. They are not made of water. Scientists think they are made of lava.



The moon orbits the Earth about every 27 days. It looks like the moon changes shape each night, but what we see is how much of the moon is lit up by the sun.

The sun shines on the moon just like it shines on the Earth. As the moon moves around the Earth, we are able to see different parts of the moon that are reflecting the light from the sun.

Each of the different patterns of light we see from the moon are called <u>phases</u>.



4.

Each phase of the moon has a different name.

**New Moon** 



Waxing Crescent



First Quarter



Waxing Gibbous



Full Moon



Waning Gibbous



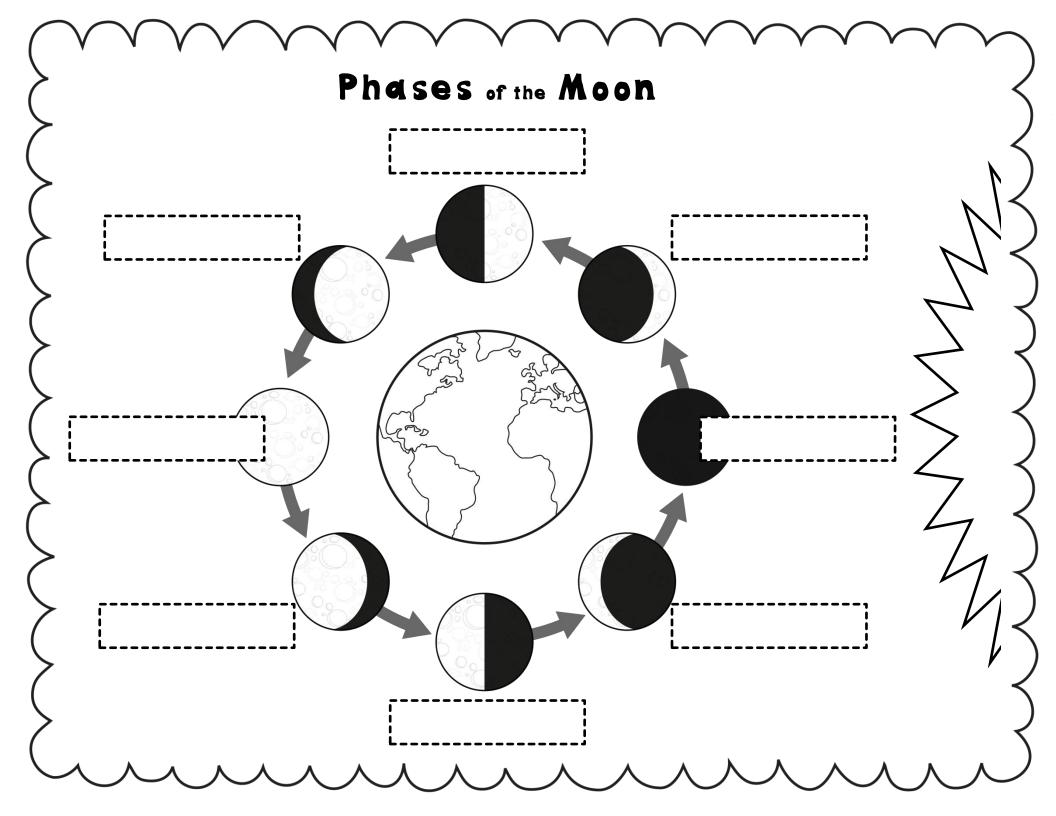
Last Quarter



Waning Crescent



I See the Moon	
L. What is the moon?	
2. How long does it take the moon to orbit the Earth?	
3. Describe the surface of the moon	
H. Why can scientists still see the footprints of the first astronauts who valked on the moon?	)
5. Name the phases of the moon	
5. Why do we only see one side of the moon?	
7. Who were the first astronauts to walk on the moon?	
3. Why do you think they left a U.S. flag on the moon?	



Phases				
of the				
Moon				

waxing crescent	full moon	waning gibbous	new moon
first quarter	waxing gibbous	waning crescent	last quarter

i	waxing crescent	full moon	waning gibbous	new moon	
j	first quarter waxing gibbous		waning crescent	last quarter	

Phases of the Moon

waxing crescent	full moon	waning gibbous	new moon
first quarter	waxing gibbous	waning crescent	last quarter

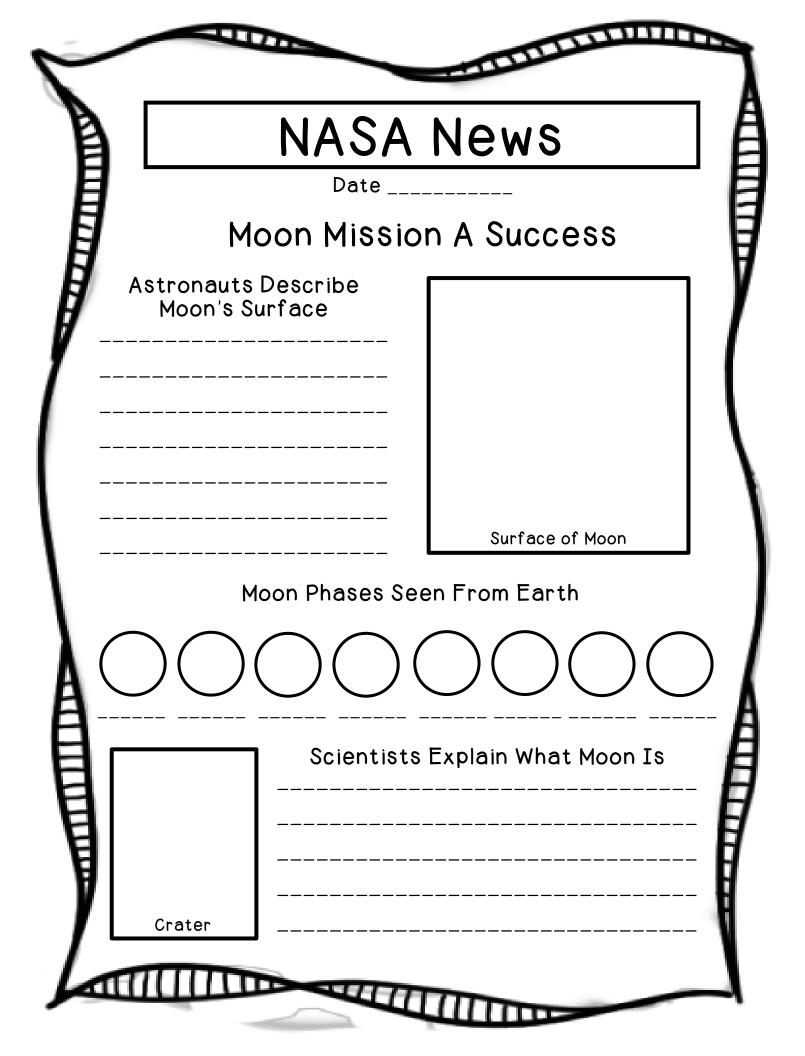
Phases of the Moon

į	waxing crescent full moon		waning gibbous	new moon	
first quarter		waxing gibbous	waning crescent	last quarter	

# My Moon Log

Number the days on the calendar. Color the circle to show what the moon looks like each night.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



### Moon Phases Book

Students can make this flipbook to show the phases of the moon. They can practice identifying phases, and you can easily see if they are understanding the concept.

Each student will need:

The patterns on the attached pages. (Colored or painted correctly.)

1 paper fastener

- 1. Students will color and cut out each pattern.
- 2. Place the "New Moon" on the bottom. (Black side facing up.)
- 3. Place the "Crescent Moon" on top of the "New Moon." (Yellow side facing up.)
- 4. Place the "Half Moon" on top of these. (Yellow side facing up.)

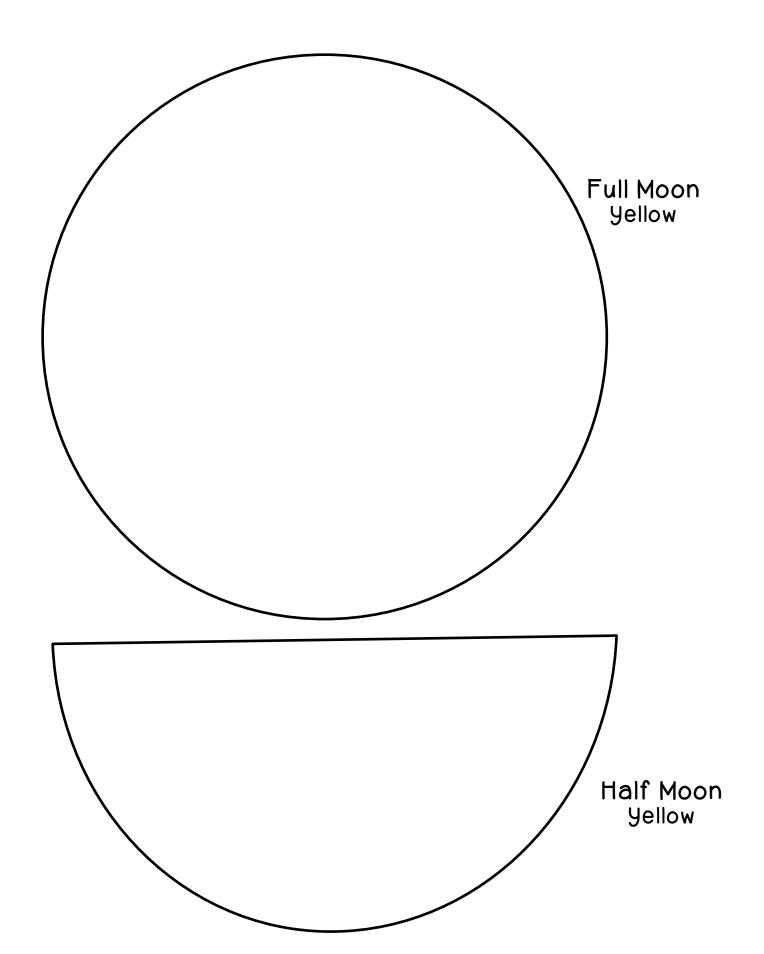


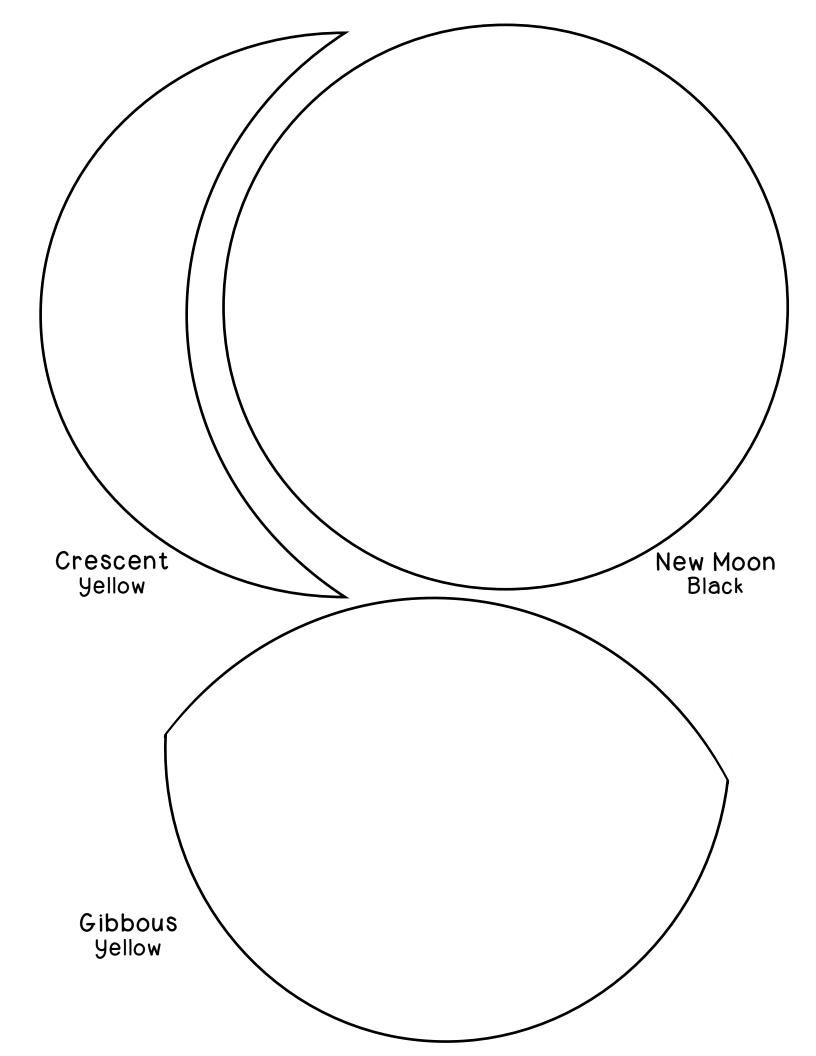
- 5. Place the "Gibbous Moon" on next (Yellow side up.) Followed by the "Full Moon."
- 6. Stick the paper fastener in the middle at the bottom on the "Full Moon." Be sure to include the half and crescent moons.

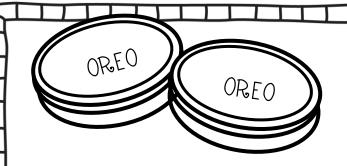
Students will begin showing the phases of the moon by pulling out the new moon from the back.

They can show each phase by rotating them around. Once they get to the full moon, they simply flip the book so the fastener is on the top. Then they slide the full moon off revealing the waning gibbous. They repeat the process until they are back to the new moon.

# Moon Phases Book







# Take a Bite Out of the Moon!

Using a toothpick, cut the cream on Oreos to show the phases of the moon.

New Moon

Waxing Crescent

1<sup>st</sup> Quarter

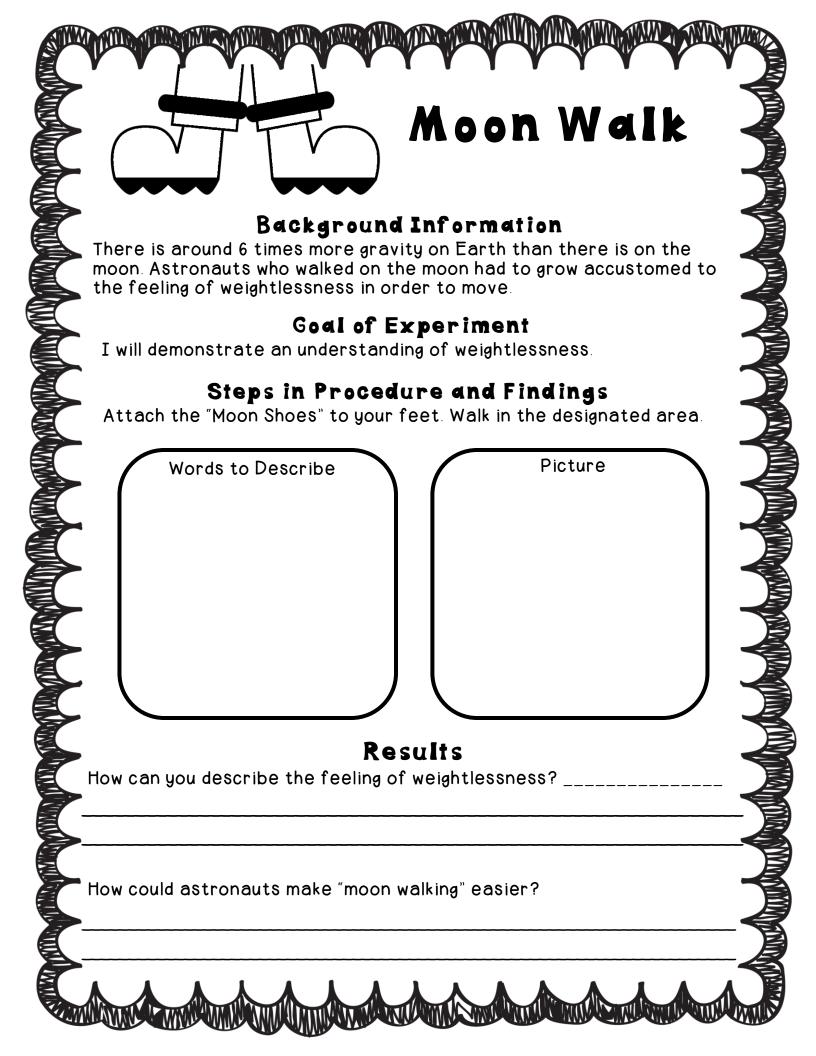
Waxing Gibbous

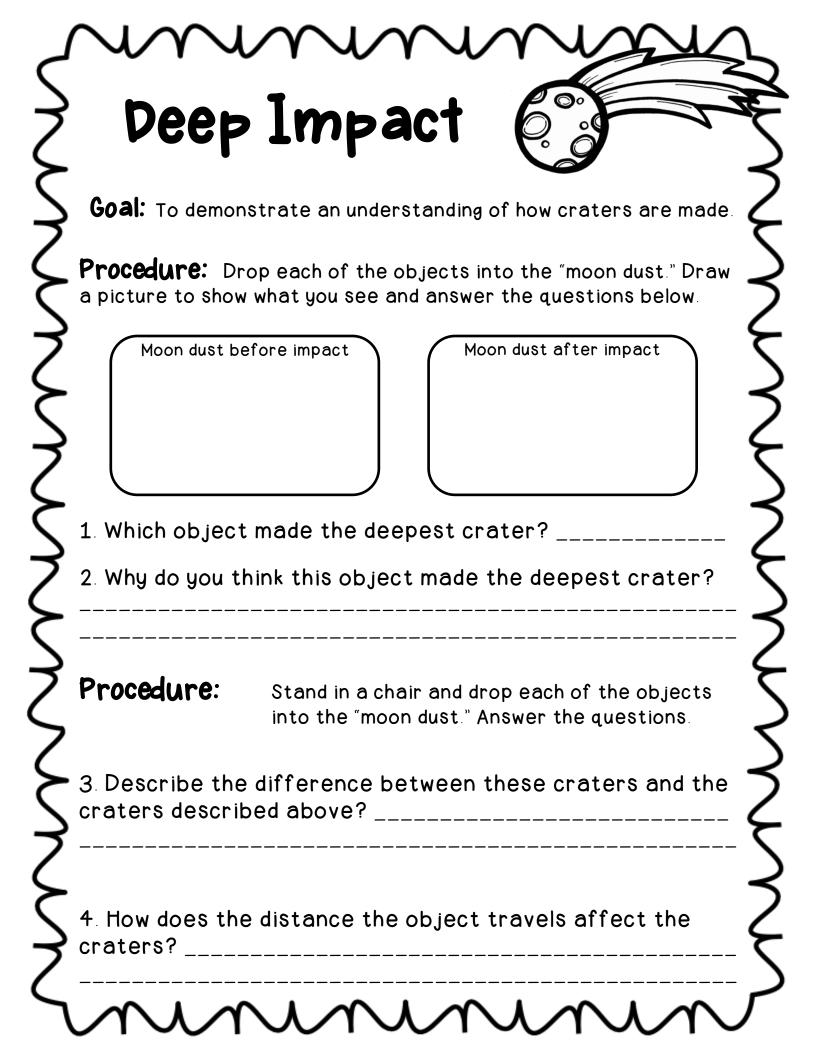
Full Moon

Waning Gibbous

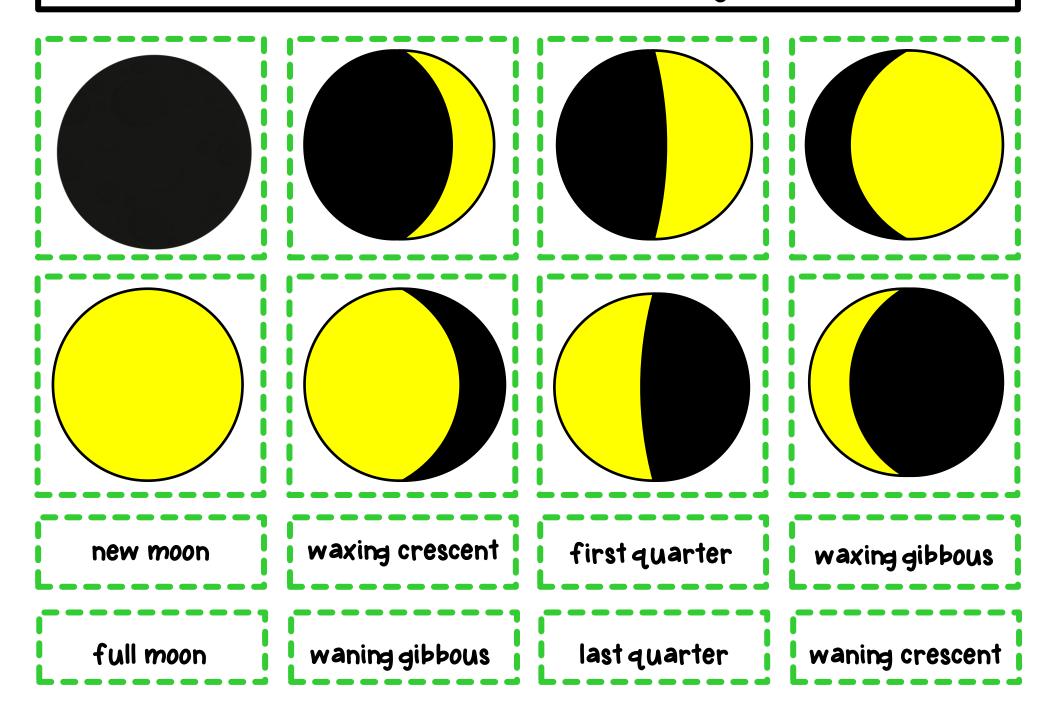
Last Quarter

Waning Crescent



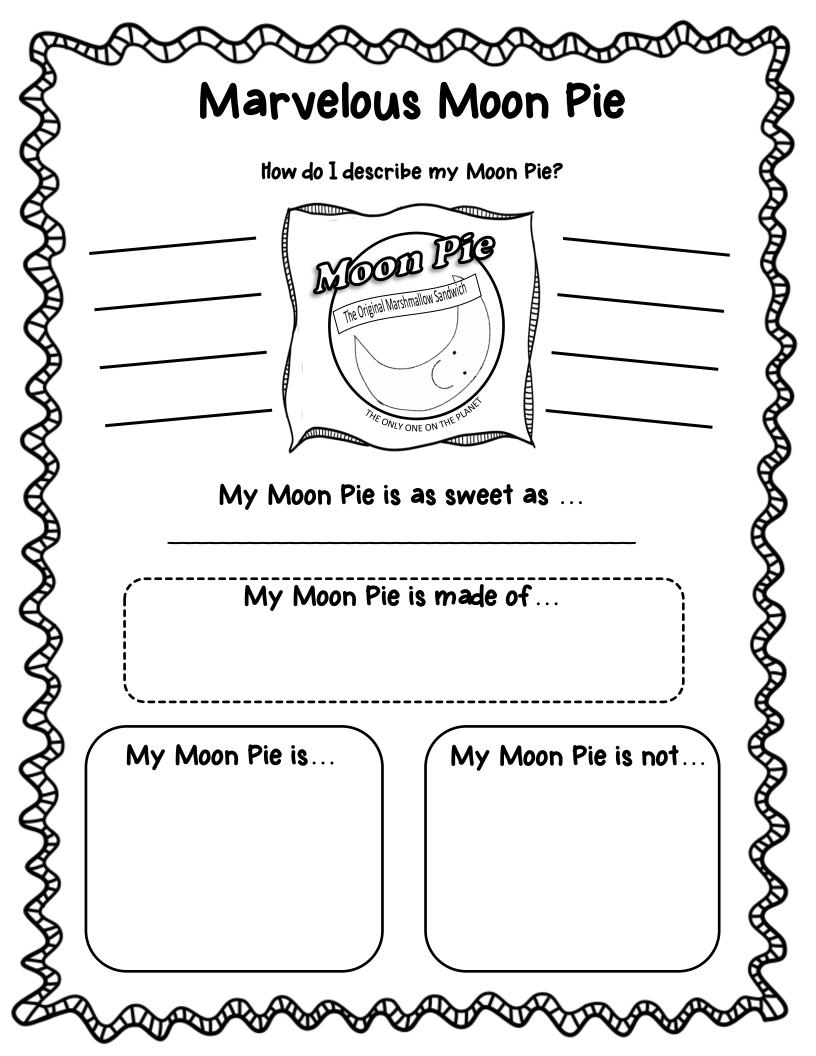


# Phases of the Moon Ordering Cards



The moon is... The moon is not... The Moon Half Crescent Moon... Moon... Picture Picture Describing Words Interesting Facts

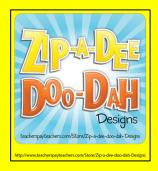
# The Moon



# Thank You!

# For purchasing my activity pack! I hope your students enjoy it!

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