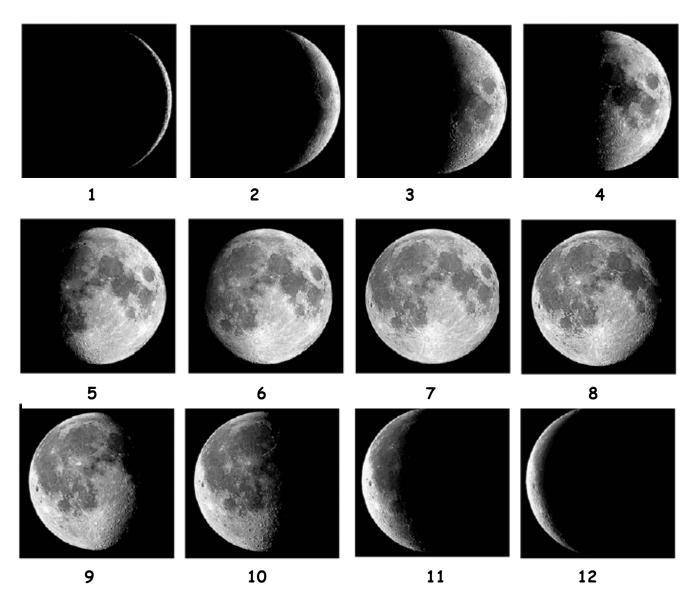
# Identifying Phases of the Moon



Which image shows First Quarter? \_\_\_\_ Full? \_\_\_\_ Last/Third Quarter? \_\_\_\_

Which images are crescents?

Which images are gibbous?

Which images are waxing? \_\_\_\_\_ through \_\_\_\_\_

Which images are waning? \_\_\_\_\_ through \_\_\_\_\_

### What's the Phase?

Waxing Crescent - A little part of the moon's right side is in sunlight.

Full Moon - The moon's entire disk is in sunlight because the Earth is between the sun and the moon.

Gibbous Waxing - About  $\frac{3}{4}$ <sup>th</sup> of the right side moon's disk is in sunlight.

1<sup>st</sup> Quarter - The right half of the moon's disk is in sunlight.

Waxing - Getting larger.

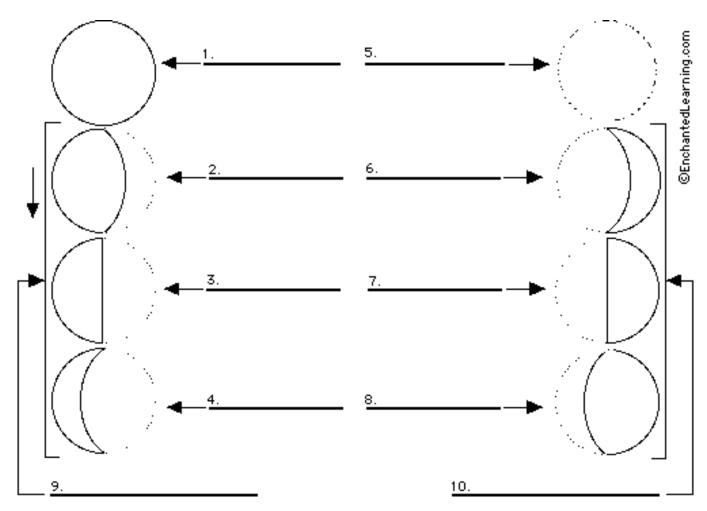
New Moon - The moon's disk facing us is dark because the moon is between the sun and the Earth.

Last Quarter - The left half of the moon's disk is in sunlight.

Waning Crescent - A little part of the moon's left side is in sunlight.

Gibbous Waning - About  $\frac{3}{4}$ th of the left side moon's disk is in sunlight.

Waning - Getting smaller.



9. Are the moons in this column waxing or waning?

10. Are the moons in this column waxing or waning?

### Identify the Phases of the Moon

<u>Waxing Crescent</u> - when we can see only a sliver of the moon's disk (*righ*t-hand side).

<u>Full Moon</u> - when the moon's disk is light because the Earth is between the sun and the moon

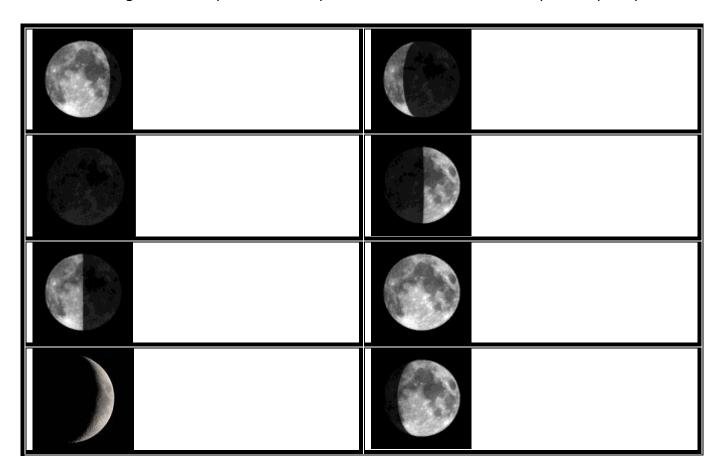
<u>Gibbous Waxing</u> - when we can see roughly three-quarters of the moon's disk (the <u>right</u> side of the moon is lit). <u>First Quarter</u> - can see one-half of the moon's disk (at First Quarter, you see the <u>right</u> half of the moon lit [this one-quarter of the entire moon's surface]).

<u>New Moon</u> - when the moon's disk is dark (and invisible to us) because the moon is between the sun and the Earth

<u>Last/3<sup>rd</sup> Quarter</u> - can see one-half of the moon's disk (at Last/3<sup>rd</sup> Quarter, you see the *left half* of the moon lit [this one-quarter of the entire moon's surface]). <u>Gibbous Waning</u> - when we can see roughly three-quarters of the moon's disk (the *left side* of the moon is lit).

<u>Waning Crescent</u> - when we can see only a sliver of the moon's disk (*left*-hand side).

After reading the description of each phase, write the name of the phase by its picture.



For each of the diagrams below, identify the exact phase of each and then order the phases in sequence beginning with the new moon as #1.



A Phase: Order:



B Phase: Order:



C Phase: Order:



D Phase: Order:



Phase: Order:



Phase: Order:



Phase: Order:



H Phase: Order:

#### Phases:

- 1. New Moon
- 2. Waxing Crescent
- 3. 1st Quarter
- 4. Gibbous Waxing
- 5. Full Moon
- 6. Gibbous Waning
- 7. Last Quarter
- 8. Waning Crescent



This MUST be the right breeding ground - I used a GPS!"

Name
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### **Matching Moon Phases**

Read the description on the left and match it with the moon phase on the right. Please put the letter of the moon phase on the far left blank line and draw a line to the matching word.

Example:							
1. <u>b</u> The opposite of dark is		a. gold b. light					
1Moon is almost directly between the s (start of cycle)	un and Earth. a.	Waning Gibbous Moon					
2Moon is almost directly between the s (cycle starts again)	sun and Earth. b.	Full Moon					
3A bit of the sunlit side of the moon sh sunlit side being on the right.	ows, with the c.	New Moon					
4Two weeks have passed since the new We see the entire face of the moon sh		Waxing Crescent Moon					
5The moon is three-quarters of its way	around Earth. e.	First Quarter Moon					
6The moon is a quarter of its way around	nd Earth. f.	Waning Crescent Moon					
7A bit of the sunlit side of the moon sh light side being on the left.	ows with the g.	Last Quarter Moon					
8The moon is between full moon and la	ast quarter. h.	Waxing Gibbous Moon					
9The moon is increasing in light betwe first quarter moon and a full moon.	en a i.	Waning Gibbous Moon					
10The moon is decreasing in light betwand a last quarter moon.	veen a full moon j.	New Moon					

N.T			
Name			

## **Drawing Moon Phases**

Using the description and matching words, complete worksheet by adding the drawing of that phase of the moon.

	Description:	<b>Drawing:</b>
1.	New Moon Moon is almost directly between the sun and Earth. (start of cycle)	
2.	Waxing Crescent Moon A bit of the sunlit side of the moon shows on the right side.	
3.	First Quarter Moon The moon is a quarter of its way around Earth. It is in its first quarter phase.	
4.	Waxing Gibbous Moon The moon is increasing in light between a first quarter moon and a full moon.	
5.	Full Moon Two weeks have passed since the new moon. We see the entire face of the moon shining.	
6.	Waning Gibbous Moon The moon is decreasing in light between a full moon and a last quarter moon.	
7.	Last Quarter Moon The moon is three-quarters of its way around Earth. It is in its last quarter phase.	
8.	Waning Crescent Moon A bit of the waning sunlit side of the moon shows on the left side.	
9.	New Moon  Moon is almost directly between the sun and Earth. (cycle starts again)	