

## Identifying Phases of the Moon

**Waxing Crescent** - A little part of the moon's right side is lit.

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

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

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

**Waxing** - Getting larger.

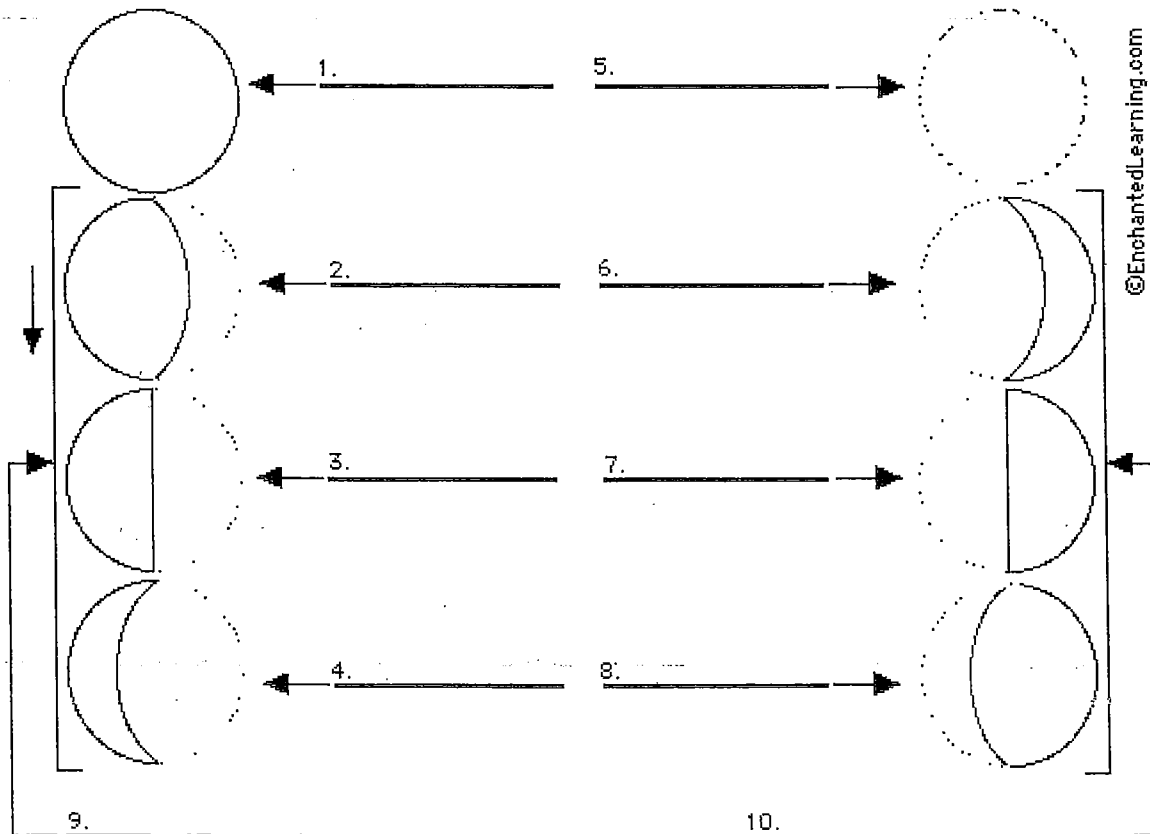
**New Moon** - The moon's disk facing us is dark because the moon is between the sun and the Earth.

**Last Quarter** - The left half of the moon's disk is lit.

**Waning Crescent** - A little part of the moon's left side is lit.

**Waning Gibbous** - About  $\frac{3}{4}$ <sup>th</sup> of the left side moon's disk is lit.

**Waning** - Getting smaller.



Are Moons 1-4 waxing or waning?

Are Moons 5-8 waxing or waning?

## Identifying the Phases of the Moon II

**Waxing Crescent** - when we can see only a sliver of the moon's disk (*right-hand side*).

**Full Moon** - when the moon's disk is light because the Earth is between the sun and the moon

**Waxing Gibbous** - when we can see roughly three-quarters of the moon's disk (the *right side* of the moon is lit).

**First Quarter** - can see one-half of the moon's disk (at First Quarter, you see the *right half* of the moon lit [this one-quarter of the entire moon's surface]).



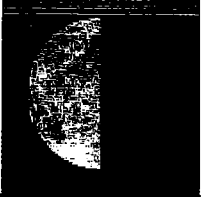
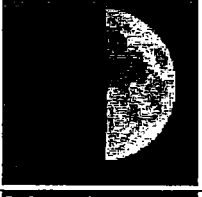

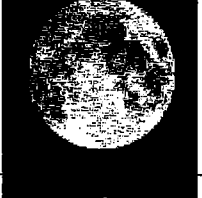

**New Moon** - when the moon's disk is dark (and invisible to us) because the moon is between the sun and the Earth

**Last/3<sup>rd</sup> Quarter** - 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]).

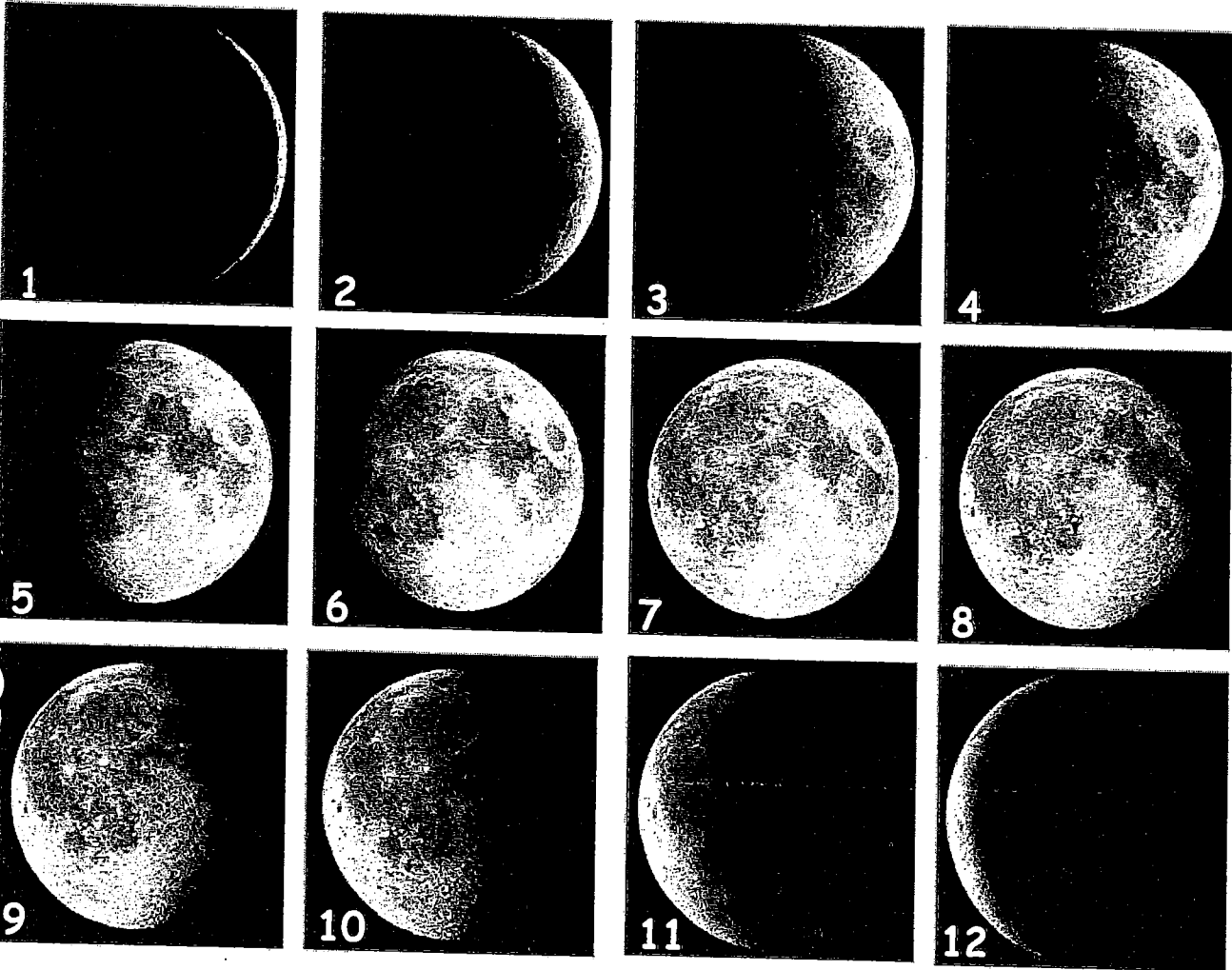
**Waning Gibbous** - when we can see roughly three-quarters of the moon's disk (the *left side* of the moon is lit).

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

*Using the table above, write the phase of the moon shown in the picture.*

## Identifying Phases of the Moon III



Using the pictures above, complete the worksheet.

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

Which images are crescents? \_\_\_\_\_ Gibbous? \_\_\_\_\_

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

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

# Identifying Phases of the Moon IV

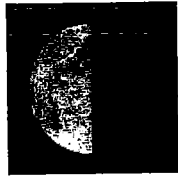
For each of the diagrams below, *identify the exact phase* of each and then *order* the phases (1 thru 8) in sequence beginning with the New Moon as #1.



A

Phase:

Order:



B

Phase:

Order:



C

Phase:

Order:



D

Phase:

Order:



E

Phase:

Order:



F

Phase:

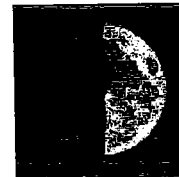
Order:



G

Phase:

Order:



H

Phase:

Order:

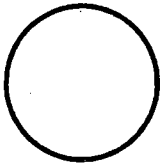
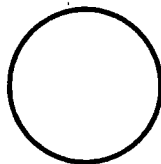
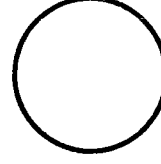
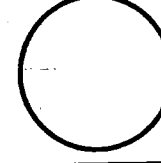
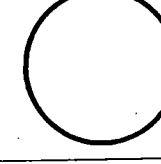
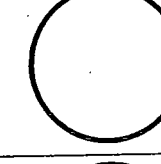

Phases:

1. New Moon
2. Waxing Crescent
3. 1<sup>st</sup> Quarter
4. Waxing Gibbous
5. Full Moon
6. Waning Gibbous
7. Last Quarter
8. Waning Crescent



# Drawing Moon Phases

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

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