

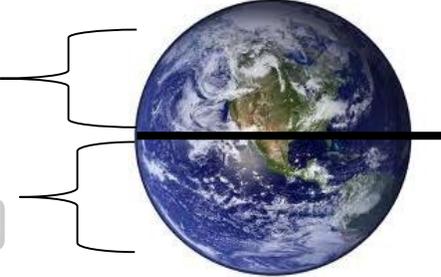
Name \_\_\_\_\_

# SUN, EARTH, AND MOON REVIEW

1. Label the Southern and Northern Hemispheres.

**Northern Hemisphere**

**Southern Hemisphere**



## Definitions

Word	Definition	Picture
<b>Rotation</b>	<b>The spinning of an object on its axis</b>	
<b>Revolution</b>	<b>The movement of one object around another object</b>	
<b>Axis</b>	<b>The imaginary line through the center of earth from the north pole to the south pole</b>	
<b>Tilt</b>	<b>Earth's 23.5° tilt, Causes Seasons</b>	
<b>Solar Eclipse</b>	<b>Happens during the new moon phase when the Moon cast a shadow on the Earth <u>SUN – MOON -- EARTH</u></b>	
<b>Lunar Eclipse</b>	<b>Happens during the full moon phase when Earth casts a shadow on the Moon. <u>SUN – EARTH -- MOON</u></b>	
<b>Spring Tide</b>	<b>When the Sun and Moon are aligned to pull on Earth. It creates tides with the largest higher than normal high and low tides. There are 2 every lunar cycle.</b>	A diagram illustrating Spring Tides. It shows two yellow circles representing the Sun and Moon aligned horizontally with a blue circle representing Earth. The Sun is on the left and the Moon is on the right. The Earth is in the center. The text 'Spring Tides' is written in the middle. Arrows point from the Sun and Moon towards the Earth, indicating their gravitational pull.
<b>Neap Tide</b>	<b>When the Moon is in first quarter and third quarter phases, the Sun and the Moons gravity pull on Earth at a 90 degree angle. It creates high tides that are at their lowest levels.</b>	

# Rotation and Revolution

2. What movement causes day and night on Earth?

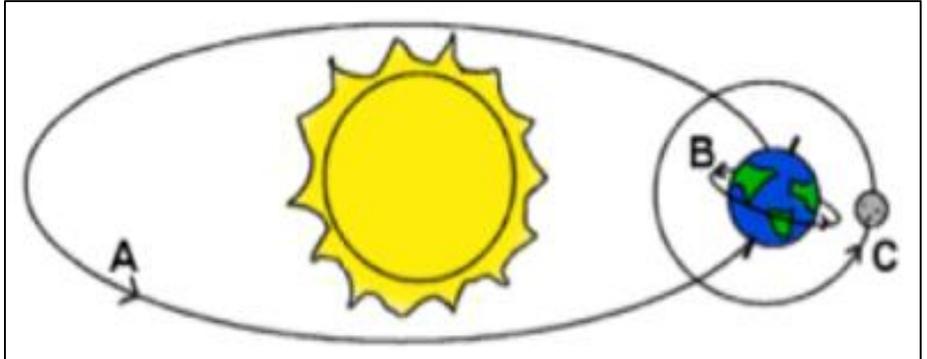
**Rotation**

3. The letters in the picture are examples of what movements?

**A) Revolution**

**B) Rotation**

**C) Revolution**



4. How long does it take the Moon to revolve around the Earth?

**1 month**

5. How long does it take the Earth to complete one rotation?

**24 hours / 1 day**

6. How long does it take Earth to revolve around the Sun?

**1 year / 365.25 days**

7. What is Leap Year and why do we need it?

**Since one of Earths revolution around the Sun takes longer than 365 days we have to add a day to the calendar every four years.**

8. Where does the moon get its light from?

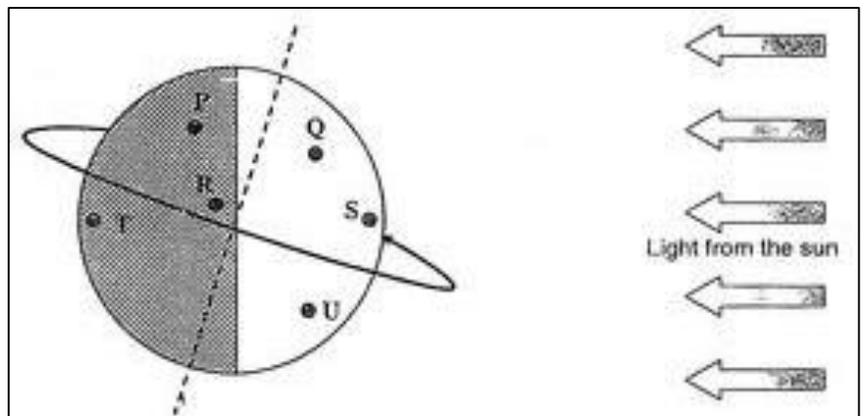
**It reflects light from the sun**

9. Which letters in the picture are experiencing day?

**Q, S, U**

10. Which letter in the picture are experiencing night?

**P, R, T**



11. Why is the rotation of Earth important?

**It causes us to have Day and Night**

# Seasons

12. Name the four seasons and put them in the correct order.

**Summer, Autumn (Fall), Winter, Spring**

13. What causes Earth's seasons?

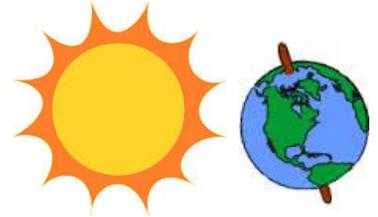
**Earth's tilt and its revolution around the Sun**

14. If it's summer in the Northern Hemisphere, what season is it in the Southern Hemisphere?

**Winter, the seasons are opposite**

15. What season is the Southern Hemisphere experiencing in the picture?

**Winter**



16. What season is the Northern Hemisphere experiencing?

**Summer**

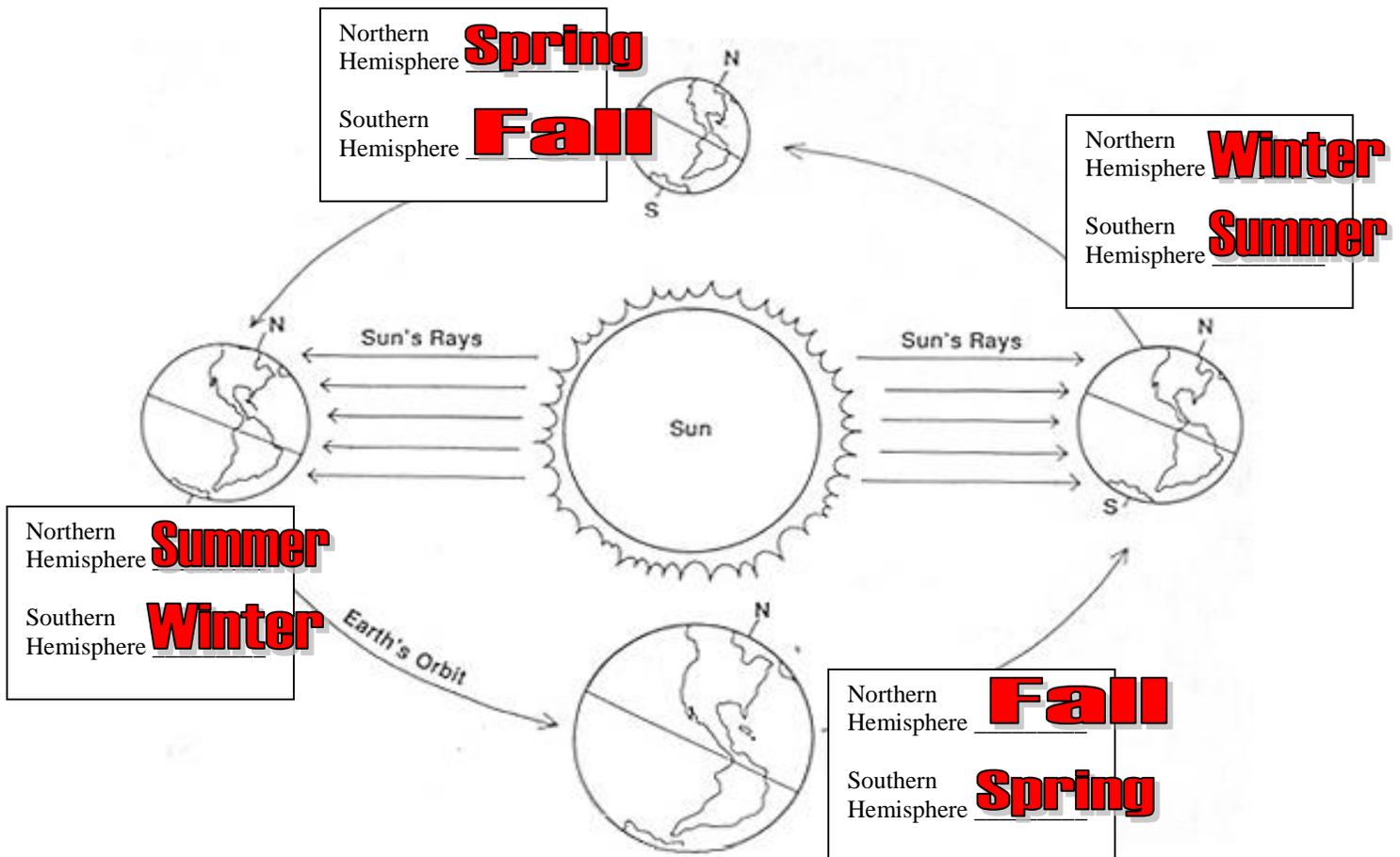
17. Solar Eclipses occur during which moon phase?

**New Moon**

18. Lunar Eclipses occur during which moon phase?

**Full Moon**

19. Label the seasons each hemisphere is experiencing.



# Tides

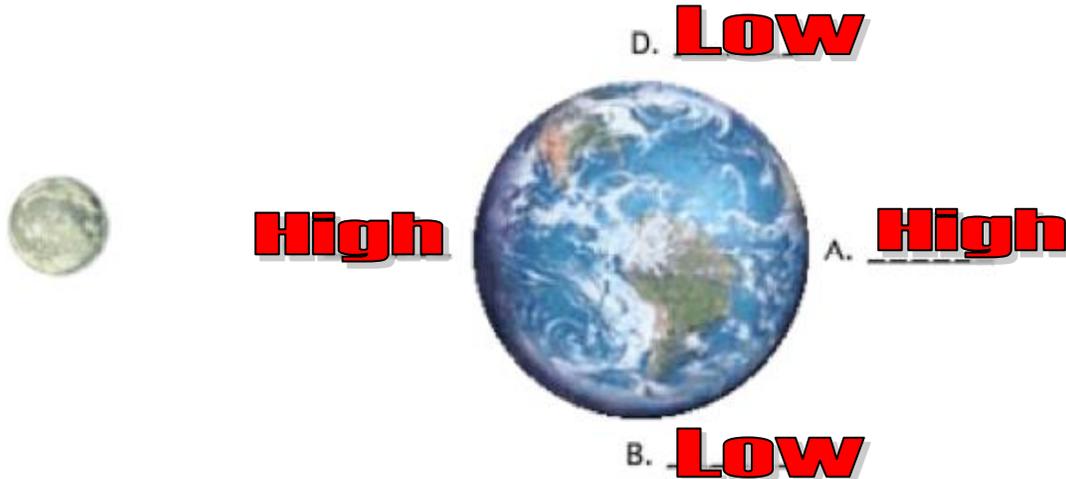
20. What causes Earth's tides?

**The Moon's gravitational pull**

21. How many high tides and low tides does Earth experience every day?

**2 Every day**

22. Using the picture below label where Earth would be experiencing a high tide and a low tide.



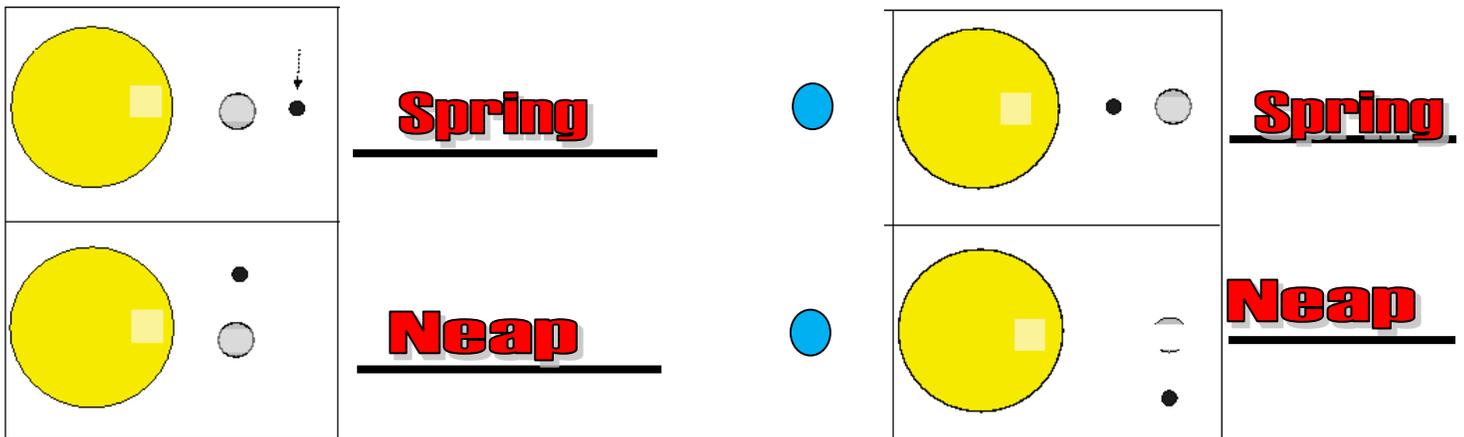
23. During what tide phase would the Earth have Higher than normal high tides?

**Spring tide**

24. During what tide phase would the Earth have Lower than normal high tides?

**Neap Tide**

Label which picture is a neap tide and which is a spring tide



25. What moon phases are present during a Neap Tide?

**First and Third Quarter**

26. What moon phases are present during a Spring Tide?

**New Moon and Full Moon**

# Moon Phases

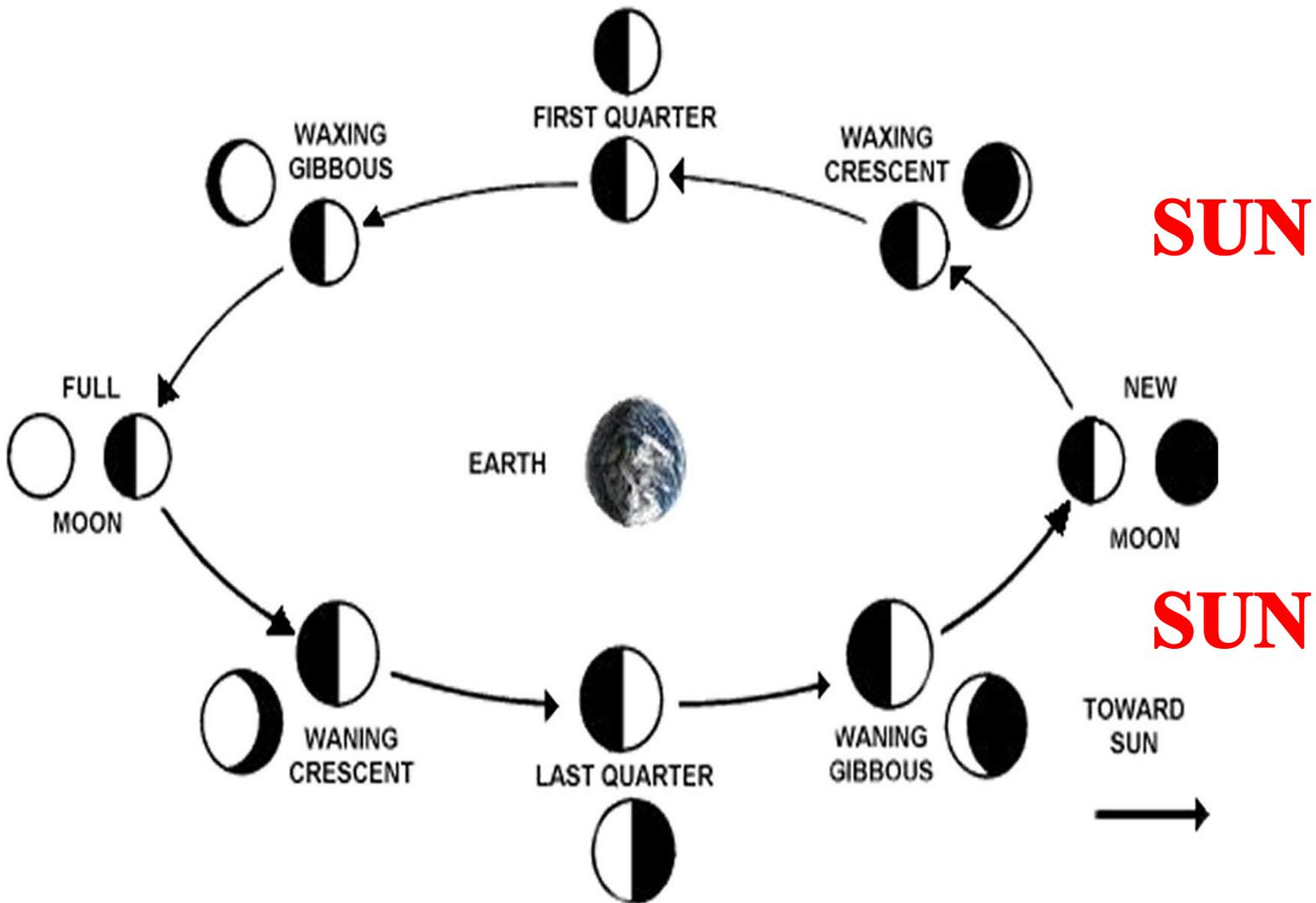
27. Solar Eclipses occur during which moon phase?

**New Moon**

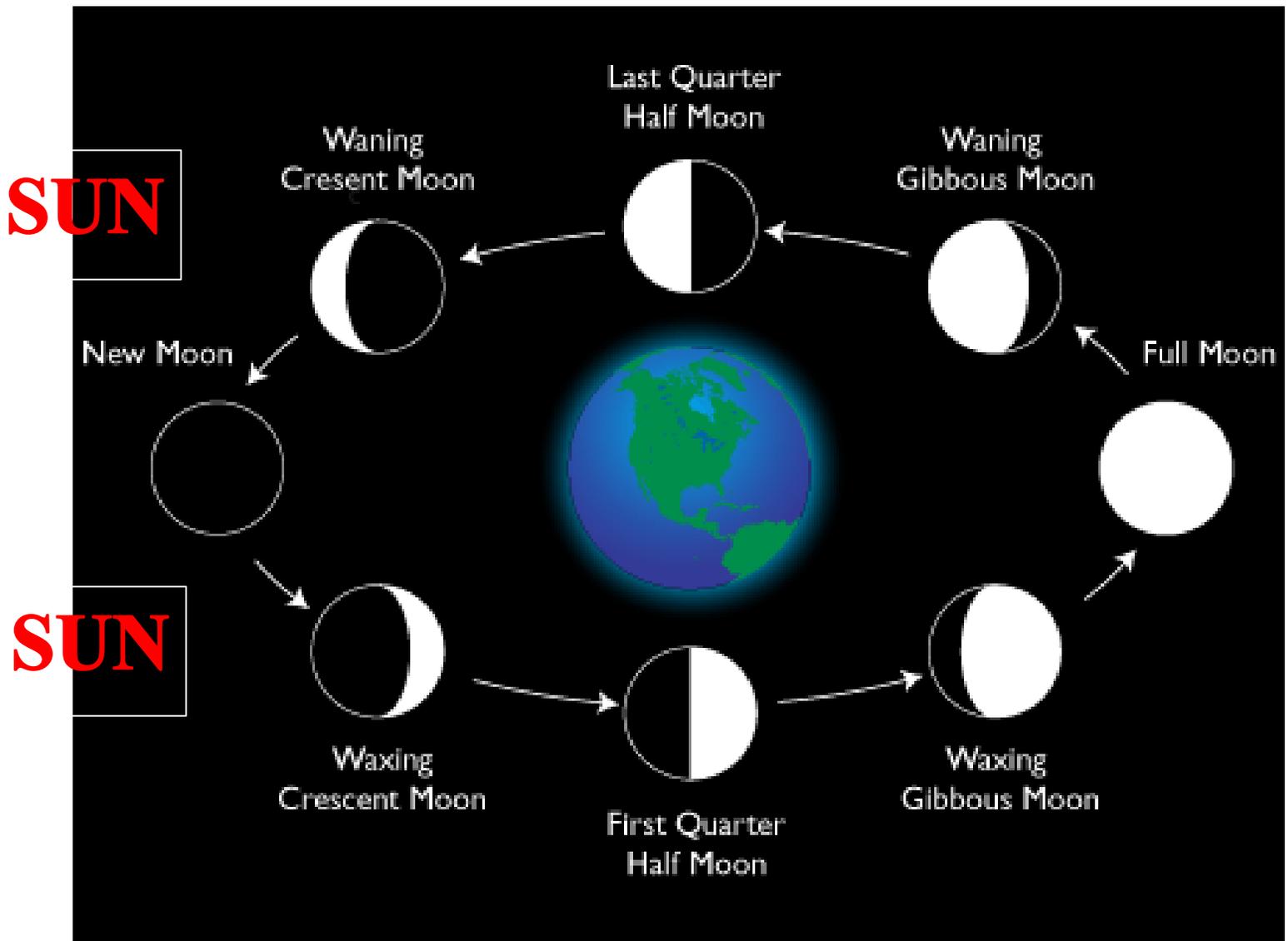
28. Lunar Eclipses occur during which moon phase?

**Full Moon**

Label and draw the moon phases. Don't forget to look at the position of the Sun.



Label and draw the moon phases. Don't forget to look at the position of the Sun.



1. \_\_\_\_\_

5. \_\_\_\_\_

2. \_\_\_\_\_

6. \_\_\_\_\_

3. \_\_\_\_\_

7. \_\_\_\_\_

4. \_\_\_\_\_

8. \_\_\_\_\_