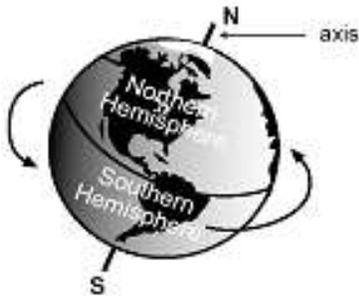


SOL 3.8 Natural Cycles

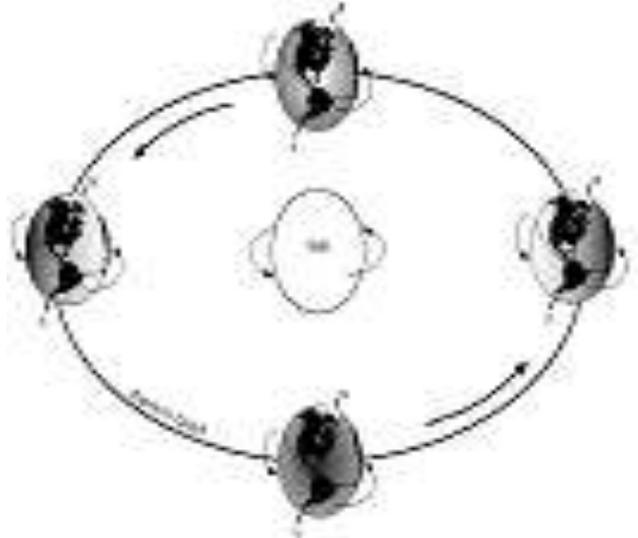
#

rotate



Day and Night

revolve



The Seasons

The Moon Phases

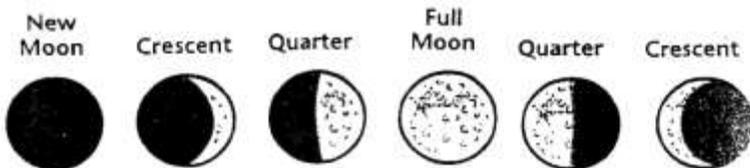


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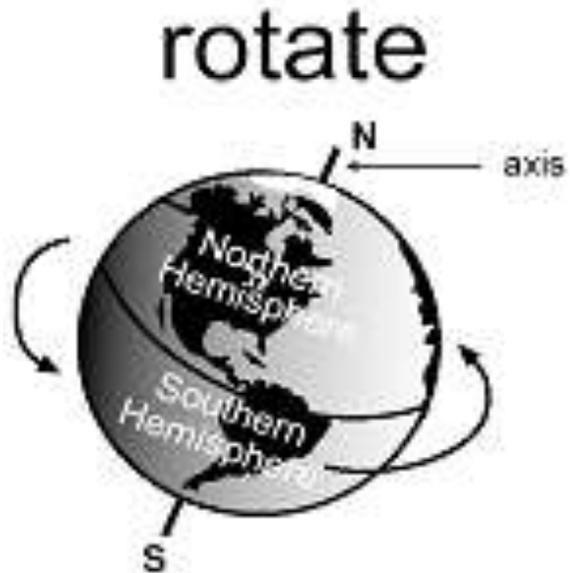
NAME _____

Night and Day

The pattern of day and night is caused by the _____ of the Earth.

One complete rotation occurs every _____ hours.

The part of the Earth toward the sun has _____ while the part of the Earth away from the sun has _____.



Shadows

A shadow is created when _____ is blocked by an object. _____ can happen whenever there is light.

Living things (like people and _____) can make shadows.

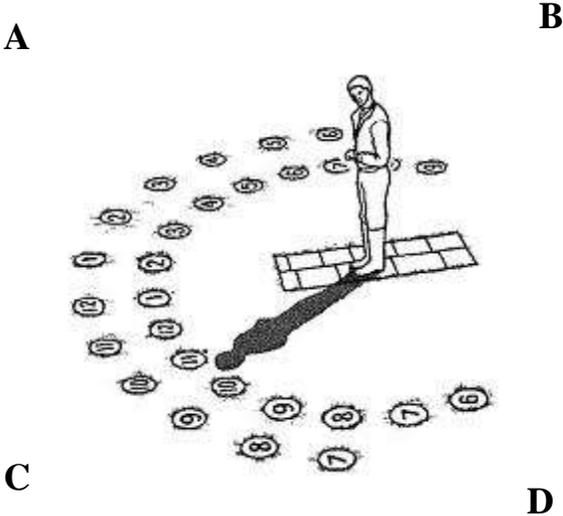
Nonliving things (like clouds and _____) can make shadows.

Look at this drawing of the person and his shadow.

Where is the light?

- A
- B
- C
- D

Name 3 possible sources of this light.



Seasons

The pattern of seasonal changes takes place because the Earth's axis is _____ toward or away from the sun during its _____ around the sun.

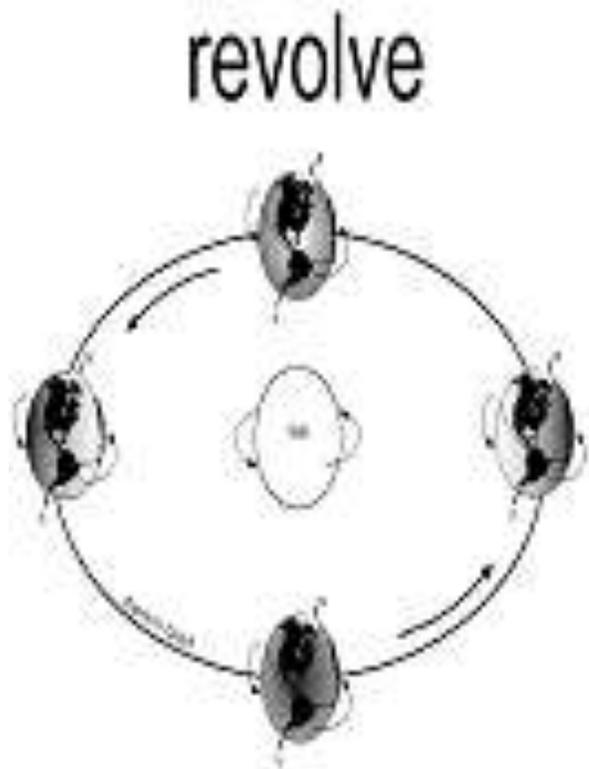
The Earth takes _____ days or _____ to make one revolution.

There are four seasons in a year lasting 3 months each:

Summer
Fall
Winter
Spring

What kind of precipitation can be seen in Virginia on a July day?

1. Rain
2. Snow
3. Ice
4. Sleet



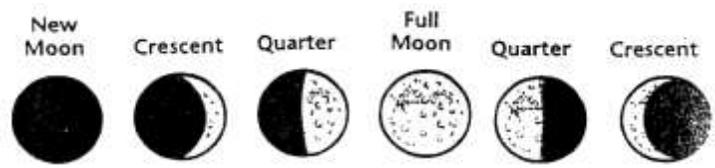
Moon Phases

The cycle of the phases of the moon occur as the _____ makes one _____ around the Earth

This revolution takes about _____ days or about _____ month.

The **waxing** moon is the growing moon. A **waning** moon is the _____ moon phases.

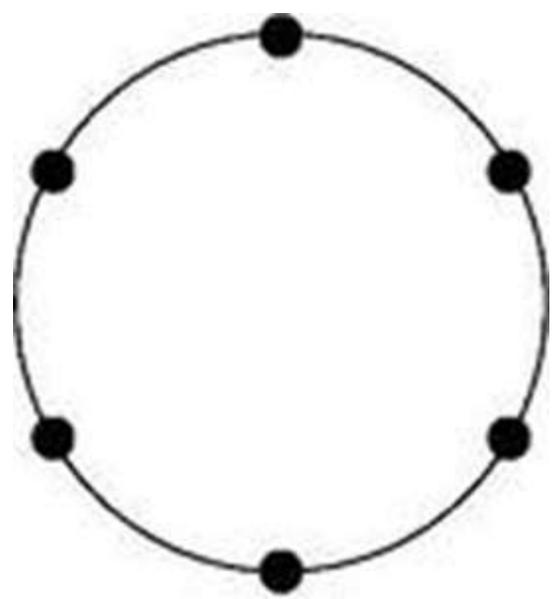
The shapes we see follow a pattern.



Label a waxing moon above.

Label a waning moon above.

Draw the phases of the moon showing a cycle.



Tides

The tides follow a pattern of _____ high and _____ low tides every _____ hours.

This pattern is caused by the gravitational attraction between the Earth and the _____.

Look at the chart.

| Monday | Tuesday | Wednesday |
|-----------------------|-----------------------|-----------------------|
| Low Tide: 3:30 a.m. | Low Tide: 4:25 a.m. | Low Tide: 5:20 a.m. |
| High Tide: 9:44 a.m. | High Tide: 10:39 a.m. | High Tide: 11:34 a.m. |
| Low Tide: 3:58 p.m. | Low Tide: 4:53 p.m. | Low Tide: 5:48 p.m. |
| High Tide: 10:11 p.m. | High Tide: 11:06 p.m. | High Tide: 11:59 p.m. |

What time is high tide on Tuesday morning?

What time is low tide on Monday afternoon? _____