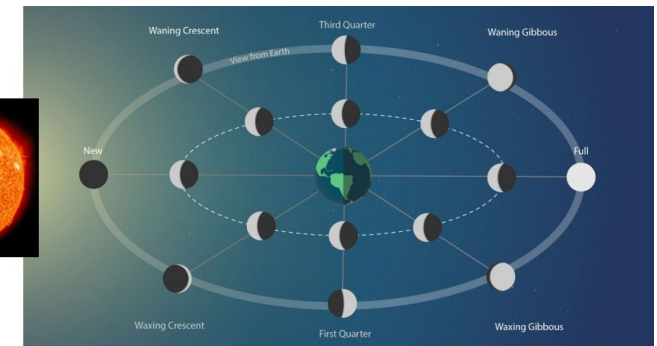
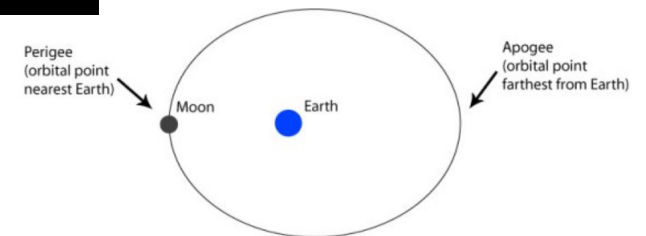
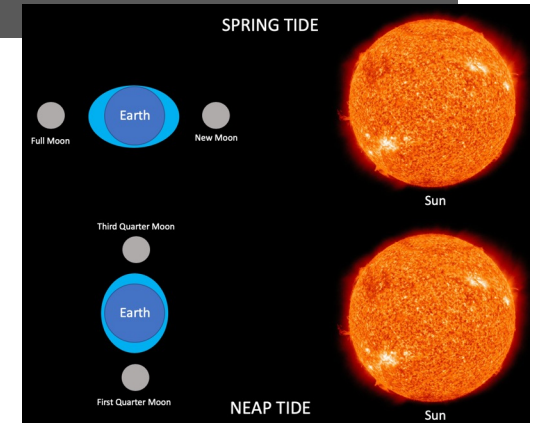


The Moon

- Moon Facts
- Movement of the Moon
- Moon Formation
- Phases of the Moon
- Tides
- What if the Moon Disappeared?
- Misconception – Dark Side of the Moon
- The Moon Illusion



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- Some slides appear blank because they have been removed
- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
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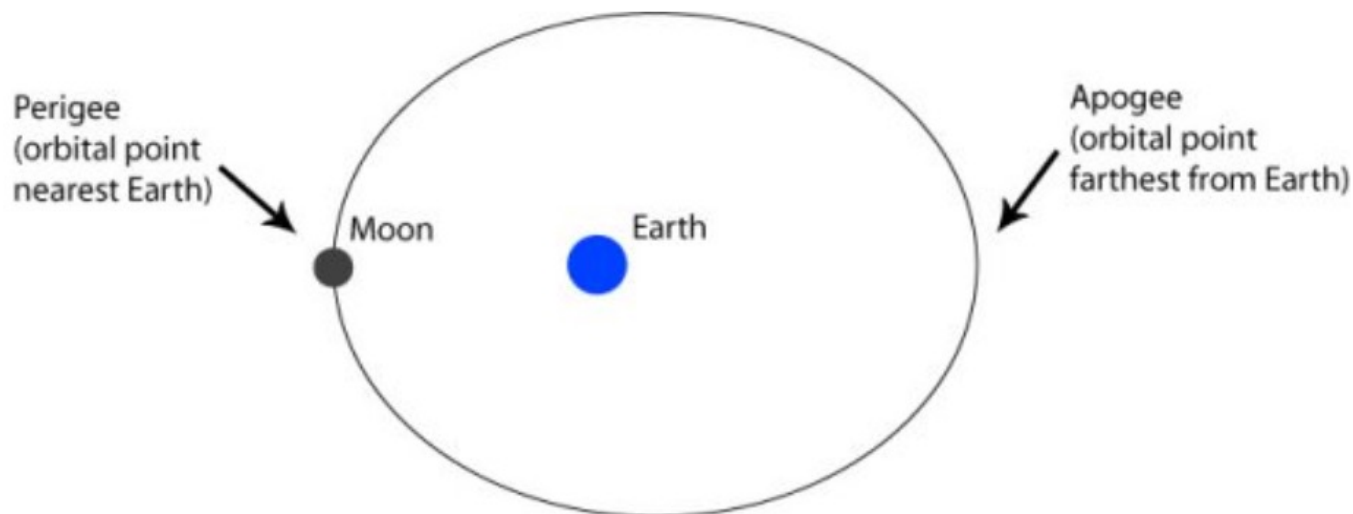


Moon Facts

- The average distance from the Moon to the Earth is 384,404 km
- The Moon is
- The diameter of the Moon is 3475.9 km = 27% diameter of the Earth (12756 km)
- _____
- Its surface temperature ranges from -233 to 123 °C
- A person would weigh about $1/6^{\text{th}}$ as much on the Moon due to its much weaker gravity
-

Movement of the Moon

- _____
- The Moon's orbit around Earth is elliptical, not circular
- One part of the orbit, the perigee, is closer to the Earth than the other, the apogee



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Moon Formation

There are three main theories on how the Moon was formed

1. Co-formation theory
2. Capture theory
3. Giant impact hypothesis



Co-formation theory

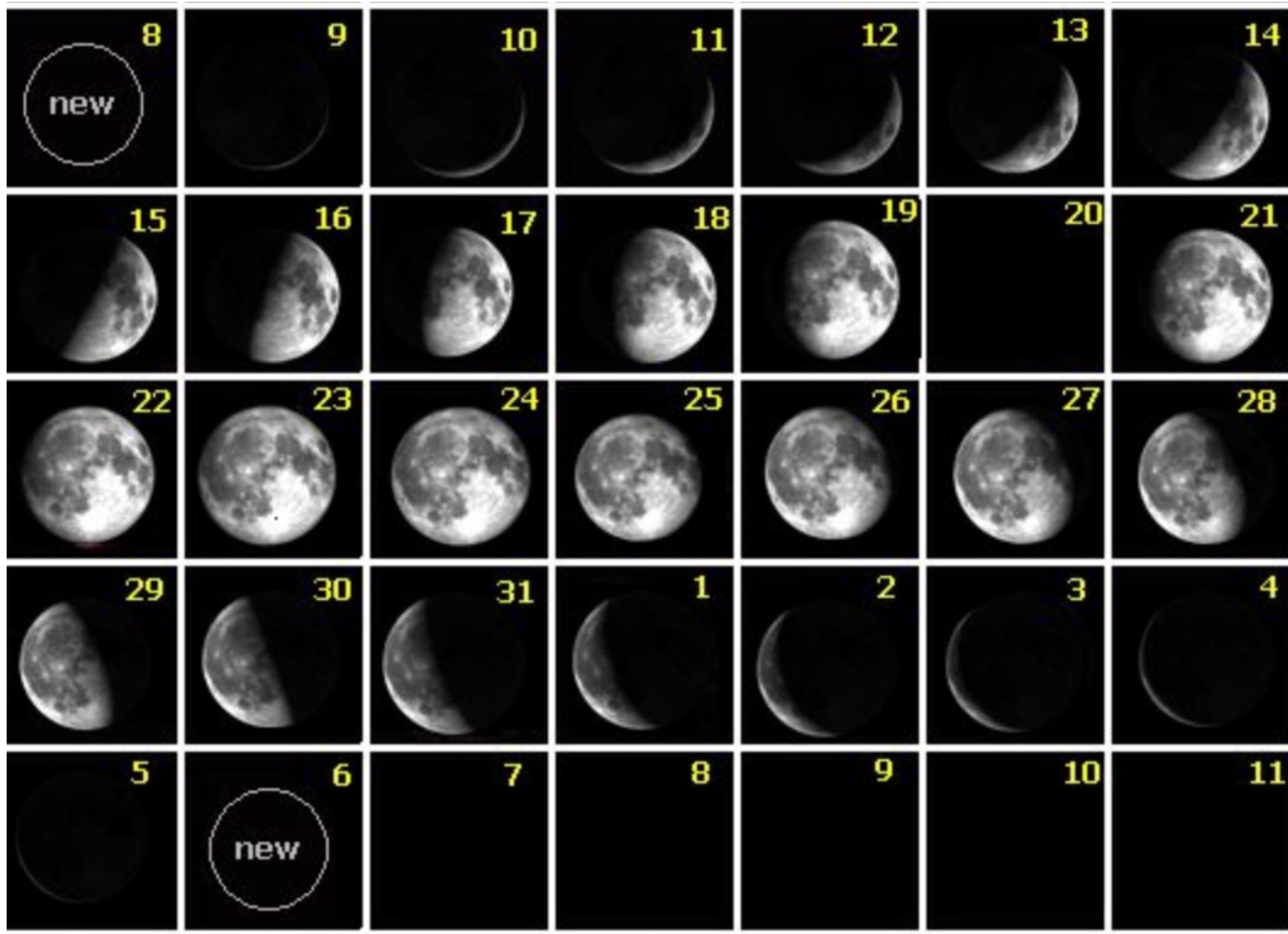
- If two massive objects collided, their remains, under the influence of gravity, could have been drawn together to form the Earth and Moon
- Although Earth and the moon share much of the same material, the Moon is much less dense
- _____

Capture Theory

- The capture theory states that a rocky body (the Moon) was formed elsewhere and passed too near the Earth
- As it did, it entered Earth's orbit and was captured
- The capture theory would explain the differences in the composition of Earth and its moon

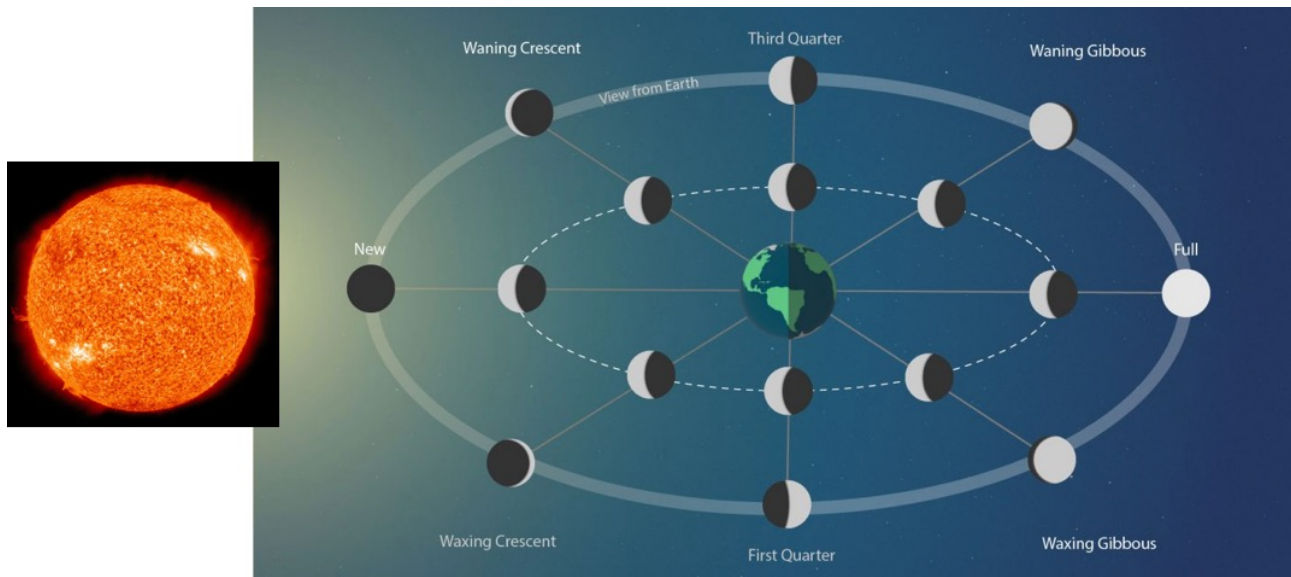
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Phases of the Moon



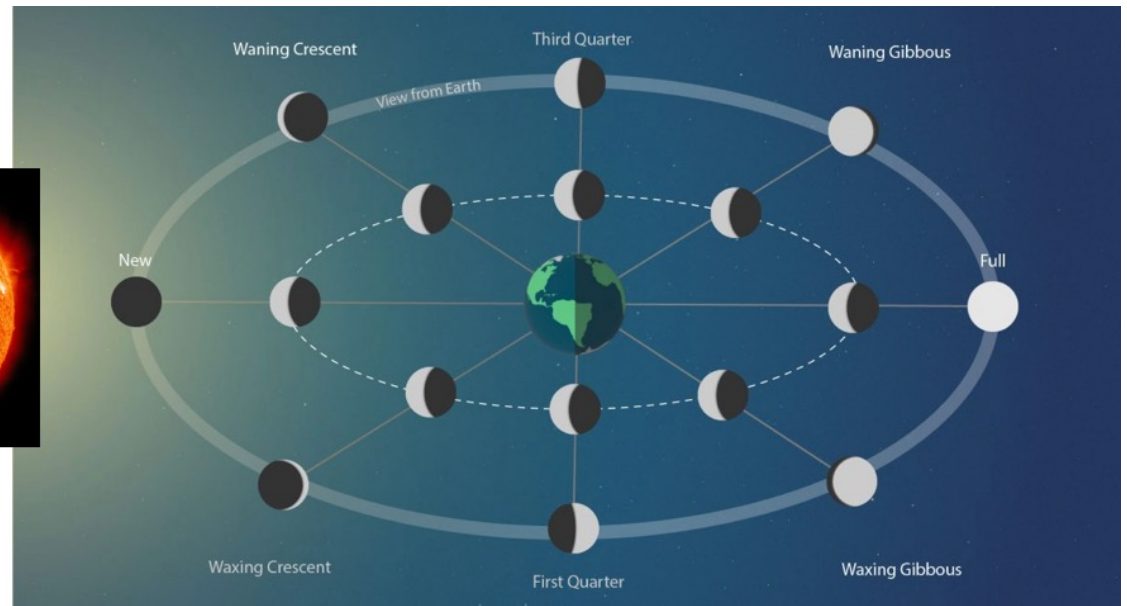
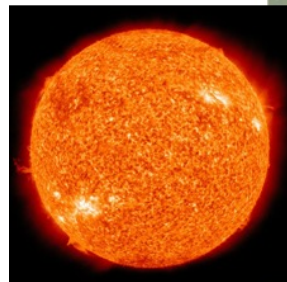
Phases of the Moon

- A common misconception is that the phases of the Moon are caused by the shadow of the Earth
- Instead, the phases of the Moon _____



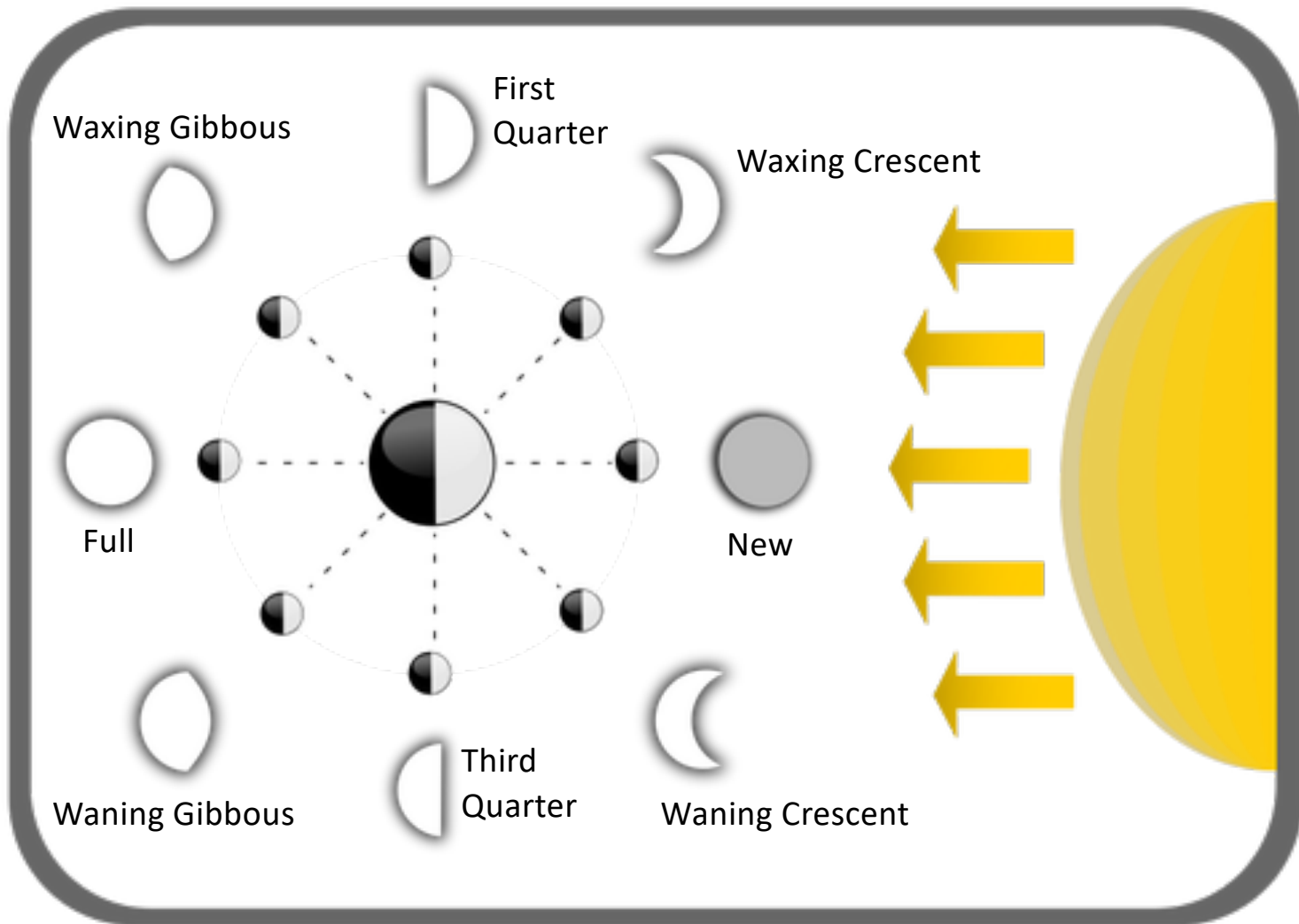
Phases of the Moon

- We can only see the part of the Moon which has been lit up by the Sun
- At new moon, the part lit by the Sun is facing away from us
- _____



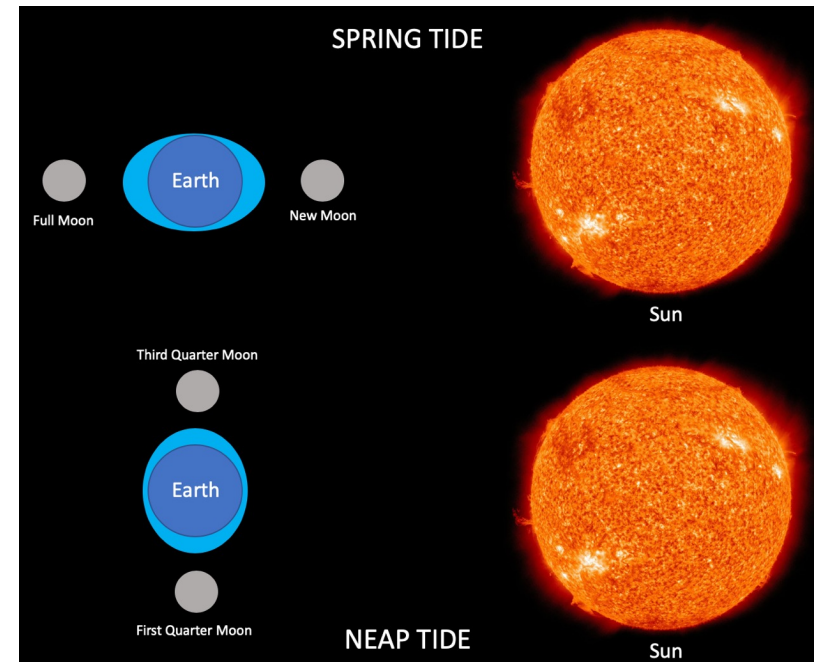
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Phases of the Moon



How the Moon Influences the Tides

- Tides (tidal bulges) are caused by gravity pulling on the bodies of water the Earth
- There are 2 gravitational bodies that affect the tides - the Sun and the Moon
- _____



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How the Moon Influences the Tides

- As the Earth rotates, a different part of it faces the Moon and so a different part of Earth experiences a low or high tide
 - The part facing the Moon experiences a high tide
-

- Coastal areas experience two low tides and two high tides every lunar day, or 24 hours and 50 minutes.

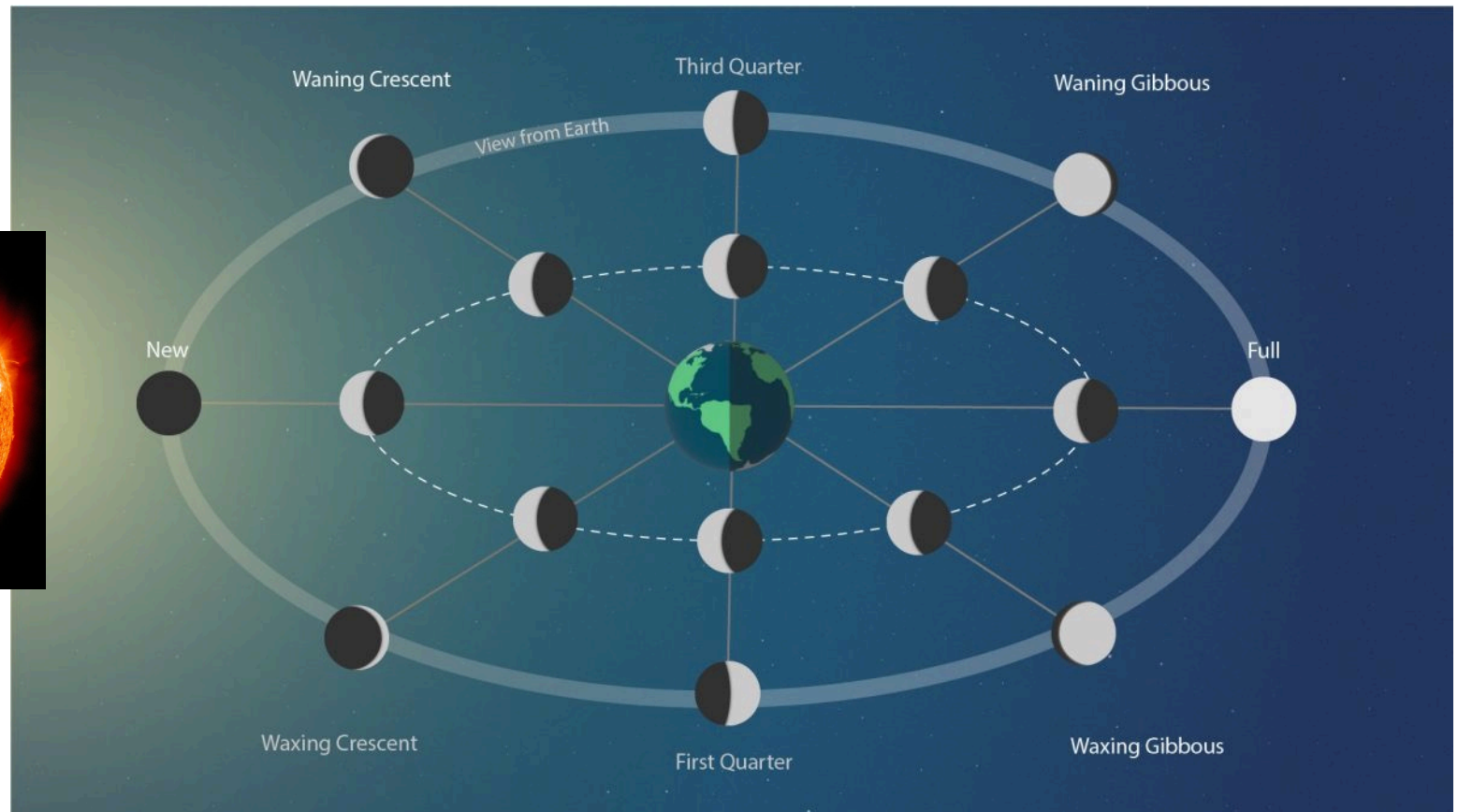
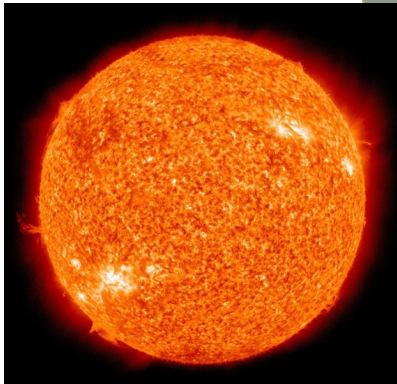
What If The Moon Disappeared?

What the video and write down the three major things that would happen if the Moon disappeared.

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The Faces of the Moon

Since we are always seeing the same side of the Moon, the far side must receive the same amount of sunlight as the near side.

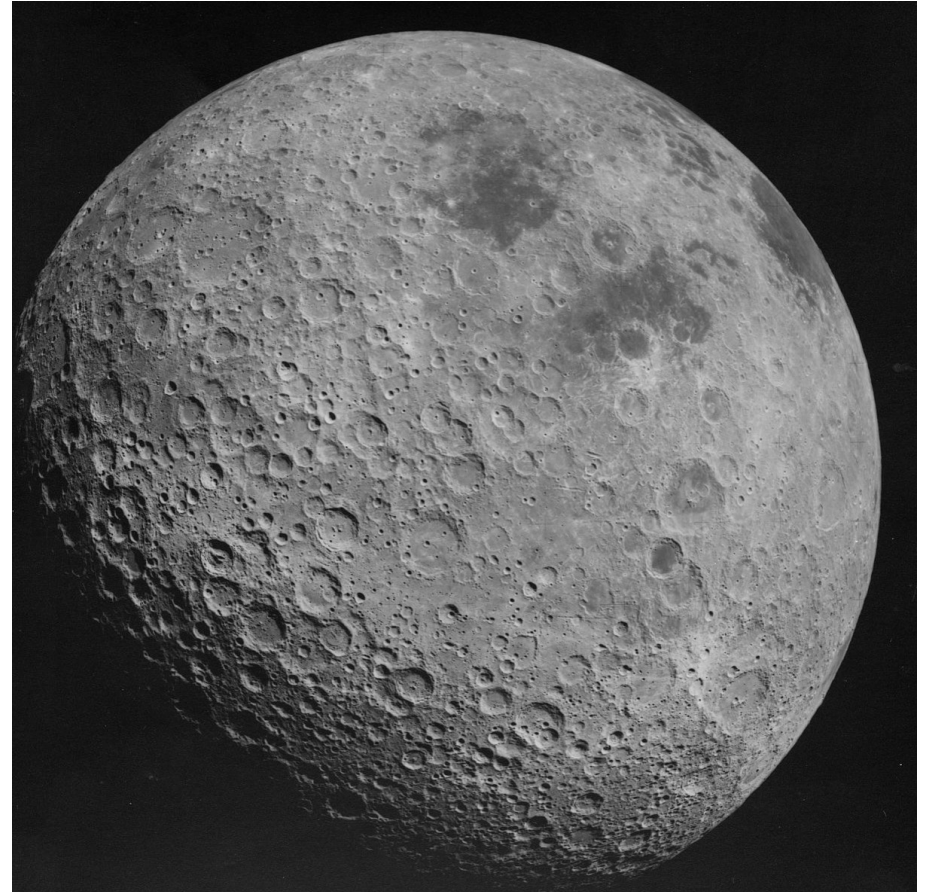


The Faces of the Moon

The near side of the Moon (what we see)



The far side of the Moon (what we don't see)



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The Moon Illusion

- When the Moon is at Perigee (Super Moon), it is approximately 11% larger than when it is at Apogee (Micro Moon)
- This change however is on a monthly basis, not an hourly one
- Any difference you see during a single night is due to the Moon Illusion
- The rest is in your head

