

Science Journals – 3-1-13

1. What is the difference between a full moon and a new moon?
2. What would happen to the lunar cycle if the Moon absorbed rather than reflected sunlight?

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1. During a full moon, the side of the Moon facing Earth is completely lit by the Sun and the Moon is located at its farthest point away from the Sun. During a new moon, the side of the Moon facing Earth is not reflecting any sunlight and the Moon is located at its closest point towards the Sun.
2. If the Moon absorbed rather than reflected the sunlight, no Moon phases would be visible, and a lunar cycle would also not be visible.

- The student is expected to demonstrate and predict the sequence of events in the lunar cycle.

2007 Oct 12 00:00:00 UT



Lunar Cycle



Refers to the Moon's pattern of movement and how it appears to change

Phases

Waxing Full Waning

remember DOC the beginning (D) and end (C): DOC



A regular and reoccurring cycle of changes
in the appearance of the Moon

Waxing



Credit: UNSO

Getting larger

Waning



Getting smaller

Crescent Moon



Shape of the Moon that is less than a quarter moon

Crescent Moon



Shape of the Moon that is less than a quarter moon



Gibbous Moon



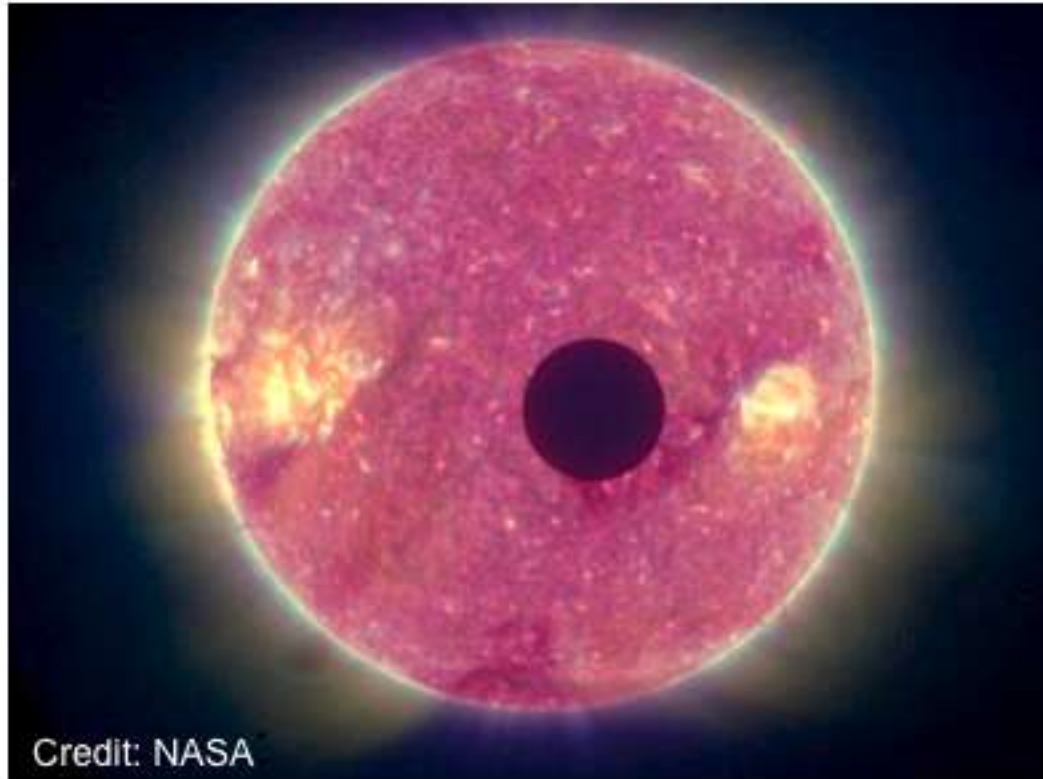
Shape of the Moon that is greater than a quarter moon, but not full

Full Moon



Entire disk illuminated

New Moon



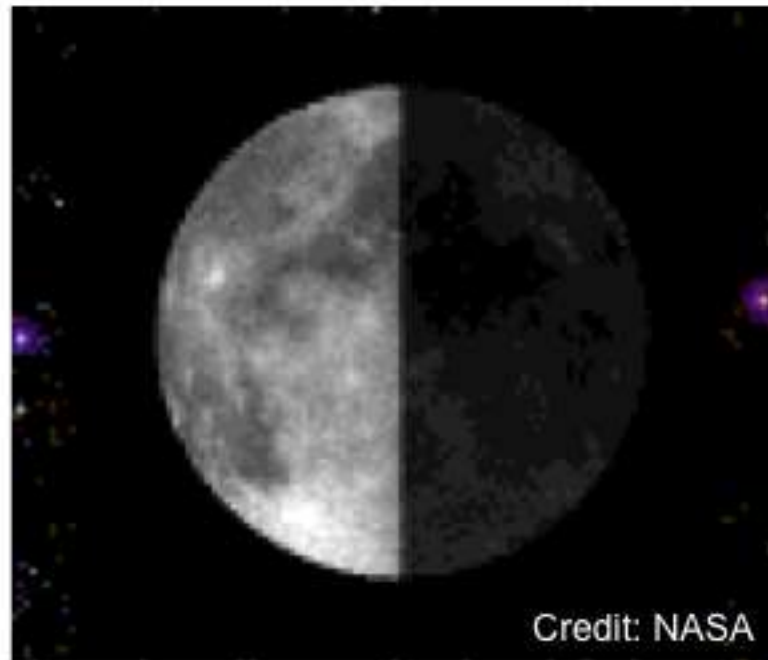
Phase of the Moon when it is
between the Sun and Earth

First Quarter Moon



Half the disk with the lighted side on the right

Last Quarter Moon



Half of the disk with the lighted side on the left

SOOO What do you think???

- 1. Which Moon phase do you believe should be the starting place when discussing the Lunar Cycle? Briefly explain your answer.
- 2. What does the moon appear to be doing when it is Waxing?
- 3. What does the moon appear to be doing when it is Waning?
- 4. How Would the Lunar Cycle change If you were viewing it from Australia?

How's about this?

- 1. ✓ This answer can vary between a Full Moon, New Moon, or Waxing Crescent -- sound reasoning.
- 2. ✓ The Moon appears to be getting larger as it waxes since it is moving towards a full moon.
- 3. ✓ The Moon appears to be shrinking as it wanes towards the "New Moon."
- 4. ✓ The Cycle wouldn't change; just when you were seeing it.