

Total and Partial Eclipses: Distance Learning Activities

April 27- May 1 Lesson Plan for Grade 7, Science

Prepared by Mrs. Higgins

OVERVIEW & PURPOSE

The student will be able to describe the relationship between the Earth, Moon and Sun, focusing how and when Eclipses occur, including total and partial eclipses.

MONDAY

1. Based on the size of the shadows of the Umbra and Penumbra during a solar eclipse, what type of eclipse would happen more often? Total solar eclipse or partial solar eclipse? Defend your answer (write here or submit to google classroom).

TUESDAY

1. Compare the sizes of the Umbra (darkest part of the shadow) from both the Moon and the Sun. Which eclipse occurs more frequently? Solar or Lunar? Explain why. Use the diagram if needed.

WEDNESDAY

2. Pretend you lived in the times before electricity. What would you think if you saw a solar eclipse? (submit to google classroom or write it on a separate sheet of paper and keep in your binder)

THURSDAY

1. Complete your "L" for your KWL for Eclipses. Submit to google classroom or keep in your binder.

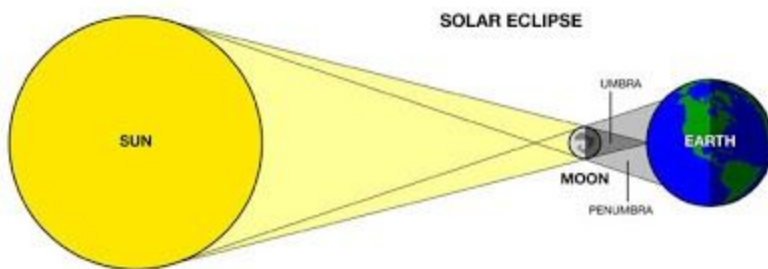
FRIDAY

The day you all have been waiting for...

1. Kahoot! Challenge At 10:00 AM-4:00PM. You can complete the challenge any time between 10:00am and 4:00pm
2. Bring your Moon phases and Eclipse knowledge!
3. I will post the game code in the google classroom and send it out through Remind.

*If you are not able to participate in Kahoot! Please create three quiz questions, with answers and ask some family members. See who can get them all right! Keep the questions in your binder.

Examples & Diagrams



STATE STANDARD

Strand 6: Earth and Space Science Earth and Space Science provides the foundation for students to develop an understanding of the Earth, Concept 3: Earth in the Solar System Understand the relationships of the Earth and other objects in the solar system.

PO 2. Construct a model for the relative positions of the Earth, Sun, and Moon as they relate to corresponding eclipses.

Moon Quiz: Distance Learning Activities

May 4th- May 8th Lesson Plan for Grade 7, Science

Prepared by Mrs. Higgins

OVERVIEW & PURPOSE

The student will be able to describe the relationship between the Earth, Moon and Sun, including Moon phases and eclipses. Students will be answering quiz-like questions daily. Circle the answer that you choose or submit a response on google classroom.

MONDAY

1. Why do we see phases of the moon during a month?

- A. Eclipses of the moon occur nightly.
- B. Parts of the moon are always in shadow.
- C. The moon is smaller when it is farther from us.
- D. The relative positions of the sun, Earth, and moon.

2. The sun is always shining on ____ of the moon.

- A. 1/2
- B. 1/3
- C. 1/4
- D. 2/3

TUESDAY

3. Which of the following events occurs about once every month?

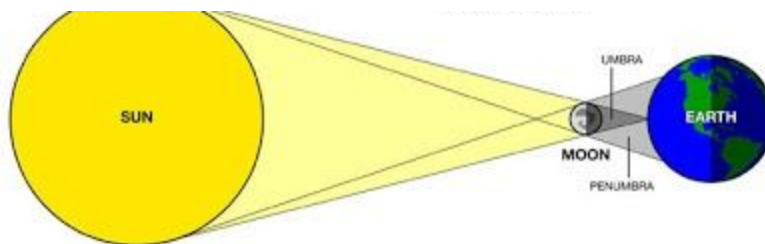
- A. Earth revolves around the sun.
- B. The moon rotates on its axis.
- C. The moon revolves around the Earth.
- D. Both B & C

4. A solar eclipse might occur during which lunar phase?

- A. Full Moon
- B. New Moon
- C. First Quarter
- D. Third Quarter

WEDNESDAY

Use this diagram of the Moon, Earth, and Sun to answer the questions



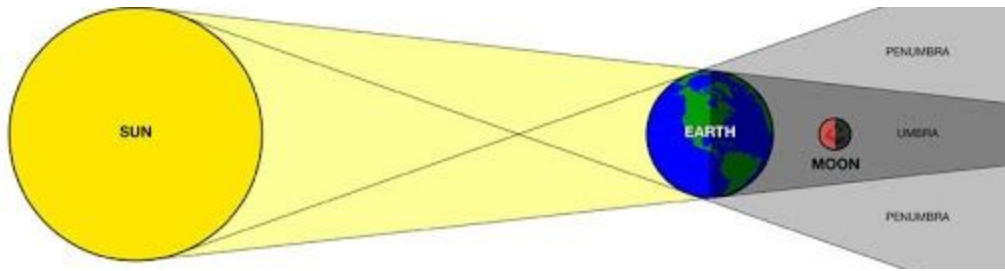
5. What phase of the moon would you see on this night?

- A. New moon
- B. Gibbous moon
- C. Quarter moon
- D. Full moon

6. Which type of eclipse might occur?

- A. Earth
- B. Solar
- C. Lunar
- D. Stellar

THURSDAY



5. What phase of the moon would you see on this night?

- A. New moon B. Gibbous moon C. Quarter moon D. Full moon

6. Which type of eclipse might occur?

- A. Earth B. Solar C. Lunar D. Stellar

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