

Lunar Eclipses

Active Reading Sheet - p.25

Read p. 25 and answer the following questions using complete sentences

When do Lunar Eclipses Occur?

1. During which moon phase will a lunar eclipse occur?
2. Draw the arrangement of the Earth, Moon, and sun during this phase
3. Will a lunar eclipse occur every time the moon is in this phase? Explain.
4. What happens during a lunar eclipse?
5. What do we see from Earth during a lunar eclipse? Why?

Total Lunar Eclipses

6. What are the two parts of the Earth's shadow
7. What type of eclipse is seen from inside the umbra?
8. Where can a total lunar eclipse be seen? How is this different from a total solar eclipse?
9. Compare figure 13 (p. 24) and figure 14 (p. 25) – what is different about the umbra in both pictures.
10. Why are people more likely to see a total lunar eclipse than a total solar eclipse?

Partial Lunar Eclipse

11. Why are most lunar eclipses, partial lunar eclipses – not total lunar eclipses?

12. What is the difference in the arrangement of the Earth, moon, and sun when a total lunar eclipse occurs compared to a partial lunar eclipse. Draw a diagram to show both arrangements. Be sure to identify explain the difference in the diagrams.

13. How long is a partial lunar eclipse visible for?