

Solar Eclipses

Active Reading Sheet - p.23-24

Read p. 23-24 and answer the following questions using complete sentences

Eclipses:

1. Refer to figure 12. Describe the moon's orbit around Earth.
2. When does an eclipse occur? Explain why it does not happen every month.
3. What are the two circumstances that result in an eclipse?
4. What are the two types of eclipses?
5. Solar comes from the Latin word _____ and lunar comes from the Latin words for _____.

When Do Solar Eclipses Occur?

6. During which phase of the moon does a solar eclipse occur?
7. Draw the arrangement of the moon, Earth, and Sun that would result in a solar eclipse
8. Why don't solar eclipses happen during each new moon?
9. Refer to figure 13 and describe what happens during a solar eclipse.

Total Solar Eclipses

10. What is the darkest part of the moon's shadow?
11. From any point inside the umbra, describe what happens to the light from the sun.

12. Does everyone on Earth experience a total solar eclipse? Explain.

13. Describe what it would be like on Earth during a total solar eclipse.

Partial Solar Eclipses:

14. Describe the penumbra.

penumbra

15. What is the difference between the penumbra and the umbra?

penumbra

16. During a solar eclipse, what do people in the penumbra see?

17. During a solar eclipse, what do the people in the umbra see?

18. Why isn't it safe to look at a partial solar eclipse?