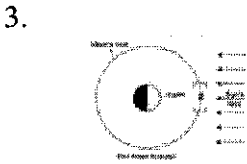
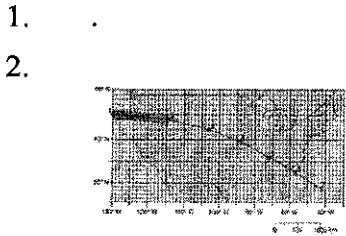
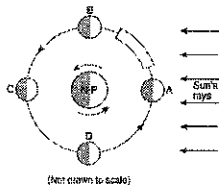


# Answer Key AST Review



4. Allow credit if the center of the X is located within or touches the bracket below.



Notes: Allow credit if a symbol other than an X is used.

5. Allow credit for any value from 14.0 to 15.0 days.

6. Height of high tide:  
 — High tides will be higher.  
 — higher  
 — increase

Height of low tide:  
 — Low tides will be lower.  
 — lower  
 — decrease

7. Allow credit for the Sun.

8. — fusion/nuclear fusion — Light elements combine to form heavier elements.

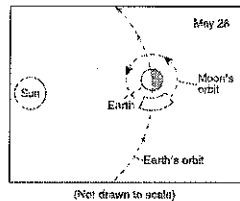
9. — The Moon's period of rotation equals the Moon's period of revolution. — The Moon rotates at the same rate that it revolves around Earth. — The Moon spins once during each revolution. — Both motions are completed in 27.3 days.

10. 29 to 30 days

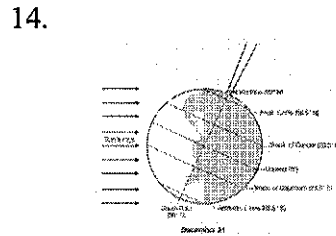
11. — The shadow of the Moon falls on Earth during a solar eclipse. — The Moon blocks some sunlight from reaching Earth. — The Moon is aligned between the Sun and Earth. — Solar eclipses occur only during the New Moon phase.

12. — The wavelengths are shifting toward the red end of the spectrum. — The farther a star cluster is from Earth, the more the redshift. — redshift of light. — The wavelengths of light are getting longer or increasing.

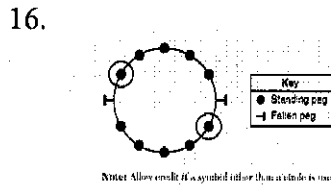
13.



(Not drawn to scale)



14. — rotation — spinning/turning on its axis



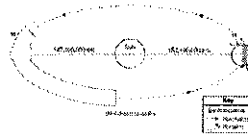
Notes: Allow credit if a symbol other than a circle is used.

17. — value equivalent to 4600 million years ago.

18.



19.



20. Diameter:  
 — increases — becomes larger  
 Luminosity:  
 — increases — higher rate of energy emission — The star appears brighter.

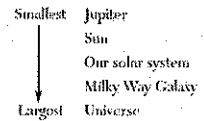
21. — gravity — gravitational attraction

22. — Earth's axis is tilted 23.5 degrees from a line perpendicular to the plane of Earth's orbit. — axis is tilted — Earth's axis is always parallel to itself at any other place in Earth's orbit. — parallelism of Earth's axis — Earth's axis is always aligned with the North Star (Polaris) as Earth orbits the Sun.

23. 24 h

24. month and day of March 19 or March 20 or March 21 or March 22

25.



26.

