



Name: _____

Date: _____

Earth Rotation and Revolution, Worksheet - 1

_____ 1. True or False-The planets in the solar system move according to strict physical laws.

COLUMN A	COLUMN B
_____ 2. Orbit	a. time it takes for a body to travel once through its path
_____ 3. Rotation	b. spinning on an axis
_____ 4. Period of revolution	c. motion of a less massive body in its path around a more massive body
_____ 5. Revolution	d. path of a body traveling around a larger body

_____ 6. True or False-The Earth rotates around the sun.

7. Why do you suppose the planets don't go flying off into space?

_____ 8. What did Kepler observe about the movement of Mars?

- a. It has a circular orbit
- b. Its moons have different orbits
- c. It had an ellipse-shaped orbit
- d. None of the above

Mark each of the following statements True or False.

_____ 9. One astronomical unit (AU) is about 150 million kilometers.

_____ 10. Distances from the Earth to other planets can be given in Aus rather than kilometers.

_____ 11. Planets move faster when they're far from the sun, and they move slower when they're close to the sun.

_____ 12. The time it takes for a planet to travel around the sun can be used to calculate the planets average distance from the sun.

13. What question was Kepler unable to answer?

_____ 14. True or False-Newton provided an explanation of how gravity works.

_____ 15. Newton's universal law of gravitation tells us that the effect of 15 on an object depends on the distance from another object and the 16 of each other.

_____ 16.

_____ 17. Moving two objects away from each other _____ the gravitational attraction between them. (increases or decreases)

_____ 18. True or False-Because of its velocity and the pull of gravity, the moon stays in orbit around the Earth.

Name: _____

Date: _____

Earth Rotation and Revolution, Worksheet - 2

1. Rotating means to
 - a. move in a circular path around another object
 - b. move up and down
 - c. spin around and around
 - d. moving in a straight line
2. Revolving means to
 - a. move in a circular path around another object
 - b. move up and down
 - c. spin around and around
 - d. moving in a straight line
3. Another name for revolving is
 - a. rotating
 - b. orbiting
 - c. moving in a straight line
 - d. gyrating
4. The picture on the right shows Earth
 - a. rotating
 - b. revolving
 - c. orbiting
 - d. stopping



5. The earth rotating on its axis causes
 - a. seasons
 - b. years
 - c. days and nights
 - d. sun spots
6. How long does it take for the Earth to make one rotation on its axis?
 - a. one year
 - b. one day
 - c. one month
 - d. one week
7. The drawing below shows
 - a. The Earth revolving around the Sun.
 - b. The moon rotating.
 - c. The Sun rotating.
 - d. The Sun revolving around the Earth.

