

KEPLER'S LAWS OF PLANETARY MOTION

Guided Reading Comprehension

20. You are probably familiar with the fact that the planets orbit, or revolve around, the sun. However, have you ever thought about how long it takes to do this? Johannes Kepler, a revolutionary German astronomer and mathematician, was intrigued by the planet Mars, and studied how the planet revolved around the sun. Using the observations and work of past astronomers, Kepler devised three laws of planetary motion, and these were vital contributions to explain how planets orbit the sun.



Johannes Kepler
1571-1630

KEPLER'S 1ST LAW OF PLANETARY MOTION: THE ORBIT OF A PLANET IS AN ELLIPSE, WITH THE SUN AT ONE FOCUS



21. Kepler found that planets orbit around the sun in an **elliptical path**. This must be called an **ellipse**, or an elongated oval-shaped orbiting circle. An ellipse has two foci that determine the shape of the ellipse. Foci are plural for focus. The path of each planet around the sun is an ellipse with the sun at one focus. The other focus is represented by a point located on the opposite end of the ellipse. The further apart the foci, the more elongated an ellipse is.

22. An ellipse has a critical component known as **eccentricity**. **Eccentricity** is the measurement of how elongated a closed circle is, and is measured from the center of the ellipse. The eccentricity is the ratio of the distance between the foci to the length of the major axis (longer horizontal axis). A perfect circle has a length two and an eccentricity of zero, while the most elongated ellipses have an eccentricity of one. Basically, the greater the eccentricity, the more elongated an ellipse is.



23. The formula to find the eccentricity of an ellipse is $E = D \div L$. In words, the formula is that eccentricity is equal to the distance between the foci divided by the length or major (longer) axis of the ellipse.

To find the eccentricity of any ellipse, follow these steps:

1. Measure the distance between the foci in cm.
2. Measure the length of the long major axis in cm.
3. Divide the distance between the two foci by the length of the major axis (L).

$$E = D \div L$$

E = eccentricity
 D = distance between the 2 foci
 L = length of the major axis of the ellipse

4. Use a ruler to find the eccentricity of the ellipse below. Show your work.



$E =$ _____
 $E =$ _____
 $E =$ _____

KEPLER'S 2ND LAW OF PLANETARY MOTION: EQUAL AREA IN EQUAL TIME

25. Kepler observed that the speed of stars in its orbit changes in a predictable way. As stars approach perihelion (the point in its orbit closest to the sun), it speeds up, as it moves away from the sun, and approaches aphelion, or point in orbit farthest away from the sun, it slows down.



The planet sweeps the same area up and it and then it is the same amount of time. Thus $T = T = T$

2. What is the difference between aphelion and

3. Explain Kepler's second law in your own words

KEPLER'S 3RD LAW OF PLANETARY MOTION: ORBITAL PERIODS ARE PROPORTIONAL TO THE DISTANCE FROM THE SUN

27. A planet's orbital period is the length of time it takes to complete one orbit around the sun. The orbital period of revolution is measured in Earth years. A planet's distance to the sun is expressed in astronomical units (AU). Distance in our solar system is measured in astronomical units, and one astronomical unit is the average distance between Earth and the sun. It is about 150 million kilometers.

Planet	Distance from Sun (AU)	Orbital Period (Earth Years)
Mercury	0.39	0.24
Venus	0.72	0.61
Earth	1.00	1.00
Mars	1.52	1.88
Jupiter	5.20	11.86
Saturn	9.54	29.46
Uranus	19.19	84.01
Neptune	30.06	164.79

28. The orbital period squared is equal to its mean solar distance cubed. The formula for this calculation is $T^2 = D^3$. It works for the orbital period in Earth years and the distance from the sun in astronomical units. Note: distances of the planets can be calculated when their periods of revolution are known. For example, Venus has a period of 1.93 years, which squared equals 3.72. The cube root of 3.72 is 1.55, and that is the distance in AU. In astronomical units, shown in the table above, in simple terms, the closer a planet is to the sun, the shorter the orbital period is. For example, an orbital period for Saturn is much longer than an orbital period of Mercury because it is farther away from the sun than Mercury.

4. Which planets have a shorter orbital period than Earth's?

Guided Reading



KEPLER'S LAWS OF PLANETARY MOTION

Reading Comprehension: Subtitle

TERM	DEFINITION
1. Eccentricity	a. ellipse with eccentricity greater than 0 and less than 1
2. Kepler's Second Law	b. area in a planet's orbit is the same
3. Aphelion	c. elongated oval-shaped orbiting circle
4. Astronomical unit	d. the average distance between the sun and the planets
5. Kepler's Third Law	e. the square of the orbital period is proportional to the cube of the semi-major axis

20. What is the eccentricity of an ellipse orbit?

a. 0
b. 1
c. 0.5
d. 1.5

21. Which of the following is not a factor in determining the eccentricity of an ellipse?

a. $E = D \div L$
b. $E = D \times L$
c. $E = D + L$
d. $E = D - L$

22. Which of the following is not a factor in determining the orbital period of a planet?

a. Semi-major axis
b. Semi-minor axis
c. Semi-latus rectum
d. Semi-perimeter

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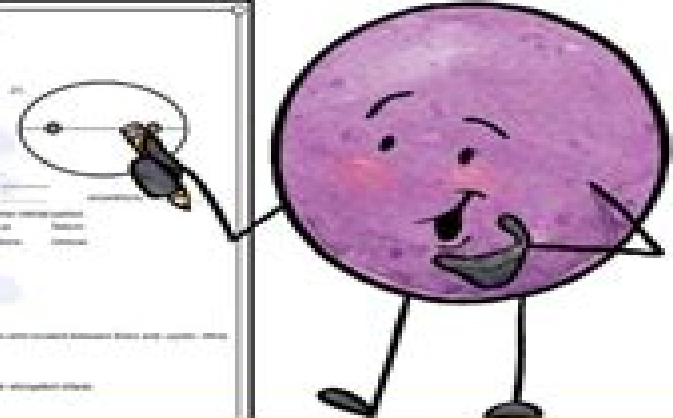
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RJ Shavelson



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