

KEPLER'S LAWS OF PLANETARY MOTION
Reading Comprehension

Name _____



Johannes Kepler
1571-1630

20. How are you probably familiar with the fact that the planets orbit, or revolve around, the sun? How do you now think about how they do it in the 17th century?
Johannes Kepler, a revolutionary German astronomer and mathematician, was assigned to the planetary files, and studied how the orbits revolved around the sun. Using the observations and work of past astronomers, Kepler devised three laws of planetary motion, and these were vital in helping to explain how planets orbit the sun.

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 orbit. An ellipse has two foci that determine the shape of the ellipse. The path of each planet around the sun is an ellipse with the sun at one focus. The other focus is typically located at the opposite end of the ellipse. The further apart the foci, the more elongated an ellipse is.



Major axis from pole to pole
Ellipse from center to edge

22. An ellipse has a vertical component known as **eccentricity**. Eccentricity is the measurement of "how elongated a closed curve is and is measured from the center of the ellipse to the edge of the ellipse 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.

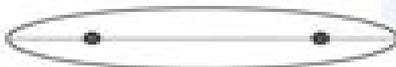
23. The formula to find the eccentricity of an ellipse is $E = D \div L$. In words, the formula is that eccentricity is equal to the distance between the foci divided by the length or major (longer) axis of the ellipse.

- To find the eccentricity to 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.



- 10 =
1 =
9 =

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

24. Kepler observed that the speed of stars in the solar system is not constant. As stars revolve around the sun, it speeds up as it moves away from the sun, and approaches the aphelion, or point in orbit furthest away from the sun. It slows down



The planet orbits the sun in an elliptical path. It moves faster at the point closest to the sun, and approaches the aphelion, or point in orbit furthest away from the sun. It slows down

1. What is the difference between perihelion and aphelion?
2. Explain Kepler's second law in your own words.

Each planet orbits the sun so that an imaginary line connecting it to the sun sweeps out equal areas in equal times. This means that planets move faster when they are closer to the sun and slower when they are further away. The speed of a planet is not constant as it orbits the sun. It moves faster when it is closer to the sun and slower when it is further away. The speed of a planet is not constant as it orbits the sun. It moves faster when it is closer to the sun and slower when it is further away.

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

25. 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 from the sun is expressed in astronomical units (AU). Distance to our other planets is measured in astronomical units, and one AU is the average distance between Earth and the sun. It is about 149,597,870.7 kilometers.

ORBITAL PERIODS AND AVERAGE DISTANCES OF PLANETS

Planet	Average Distance from Sun (AU)	Orbital Period (Earth Years)
Mercury	0.387	0.241
Venus	0.723	0.615
Earth	1.000	1.000
Mars	1.524	1.877
Jupiter	5.203	11.862
Saturn	9.537	29.447
Uranus	19.191	84.013
Neptune	30.069	164.783

26. The planet orbital period is equal to the mean solar distance from the sun. The formula for this relationship is $T^2 = D^3$. T stands for the orbital period in Earth years and D stands for 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, when the period of Earth is 1 year, which is equal to 365.25 days, the cube root of 1.00 is 1.00, and that is the distance to Earth 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 29.45 Earth years, which is equal to 107,555 Earth days. It is further 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

Reading Comprehension

TERM	DEFINITION
1. Eccentricity	a. ellipse with eccentricity less than 1.0
2. Aphelion	b. point in a planet's orbit furthest from the sun
3. Perihelion	c. ellipse with eccentricity greater than 1.0
4. Astronomical unit	d. the average distance between Earth and the sun
5. Orbital period	e. the length of time it takes a planet to complete one orbit around the sun

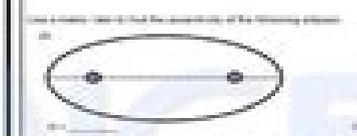
Questions

1. What is the eccentricity of Earth's orbit?
a. 0
b. 1
c. 0.0167
d. 0.017
2. What is the aphelion distance of Earth's orbit?
a. 1.0167 AU
b. 1.017 AU
c. 1.0167 AU
d. 1.017 AU
3. What is the orbital period of Earth's orbit?
a. 1 year
b. 1.0167 years
c. 1.017 years
d. 1.0167 years
4. What is the distance to Earth from the sun?
a. 1 AU
b. 1.0167 AU
c. 1.017 AU
d. 1.0167 AU
5. What is the average distance of Earth from the sun?
a. 1 AU
b. 1.0167 AU
c. 1.017 AU
d. 1.0167 AU

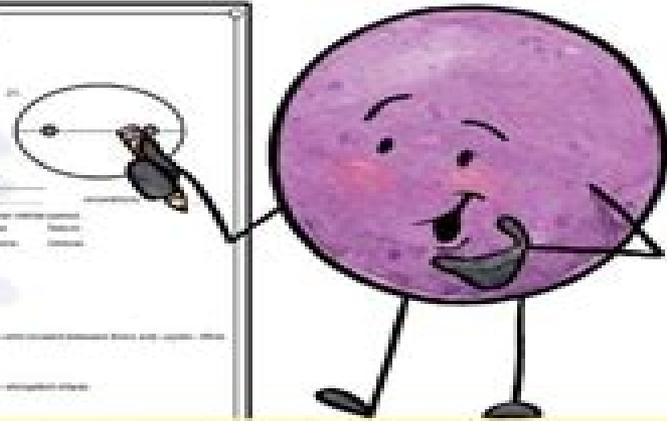


KEPLER'S LAWS OF PLANETARY MOTION
Math

Math



1. Use a ruler to find the eccentricity of the following ellipse.
a. $E = 0.0167$
b. $E = 0.017$
c. $E = 0.0167$
d. $E = 0.017$
2. What is the aphelion distance of Earth's orbit?
a. 1.0167 AU
b. 1.017 AU
c. 1.0167 AU
d. 1.017 AU
3. What is the orbital period of Earth's orbit?
a. 1 year
b. 1.0167 years
c. 1.017 years
d. 1.0167 years
4. What is the distance to Earth from the sun?
a. 1 AU
b. 1.0167 AU
c. 1.017 AU
d. 1.0167 AU
5. What is the average distance of Earth from the sun?
a. 1 AU
b. 1.0167 AU
c. 1.017 AU
d. 1.0167 AU



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Astronomy Planetary Properties Answer Key

William K. Hartmann



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Bhattacharya, Jeffrey M. Lichtman, 2016-11-25 The authors have put forth great efforts in gathering present-day knowledge about different objects within our solar system and universe. This book features the most current information on the subject with information acquired from noted scientists in this area. The main objective is to convey the importance of the subject and provide detailed information on the physical makeup of our planetary system and technologies used for research. Information on educational projects has also been included in the Radio Astronomy chapters. This information is a real plus for students and educators considering a career in Planetary Science or for increasing their knowledge about our planetary system.

Astronomy Today Eric Chaisson, Stephen McMillan, 1997 [A New Science Strategy for Space Astronomy and Astrophysics](#) National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Board on Physics and Astronomy, Space Studies Board, Committee on Astronomy and Astrophysics, 1997-07-06

Planetary Geology Dominic Fortes, Claudio Vita-Finzi, 2025-02-17 Planetary geology today extends far beyond the study of rocks, encompassing planetary origins, interiors, tectonics, atmospheres, oceans, and biology. It is not limited to the planets within our own solar system either. The past decade has witnessed groundbreaking missions to asteroids and comets, as well as the discovery of thousands of exoplanets orbiting distant stars. This book offers a comprehensive exploration of the intricate geological processes shaping planets both within and beyond our solar system. It introduces fundamental concepts while framing the latest developments in planetary science. With over 1,000 references from more than 170 journals, this fully updated 3rd edition focuses on geological processes rather than a planet-by-planet approach, essential for understanding the common mechanisms linking planetary bodies across the universe. Explains complex concepts in an accessible manner, avoiding undue reliance on mathematical formulas and equations. Takes into account the increasing globalisation and commercialisation of space exploration and planetary science. A best-selling student text, *Planetary Geology* serves as an approachable yet in-depth introduction to a field that can seem overwhelming in its scope. Throughout, authors Dominic Fortes and Claudio Vita-Finzi foster curiosity and critical thinking, driven by the belief that a deeper understanding of planetary processes will ultimately help us better understand Earth's place in the universe.

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Scientific and Technical Aerospace Reports, 1966

Publications of the Astronomical Society of Japan Nihon Tenmon Gakkai, 2008

Literature 1977, Part 2 Siegfried Böhme, Ute Esser, Walter Fricke, Inge Heinrich, Dietlinde Krahn, Lutz D. Schmädel, Gert Zech, 2013-03-14

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The Ages of Stars (IAU S258) International Astronomical Union. Symposium, 2009-06-25 IAU S258 discusses the problem of estimating ages of stars and stellar populations a difficult challenge in astrophysics

Journal of the Italian Astronomical Society Società astronomica italiana, 1989

Astronomy and Astrophysics Monthly Index, 1989

Astronomy William K. Hartmann, 1991 This new edition of Hartmann's bestselling text continues to provide students with a highly visual and

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