

KEPLER'S LAWS OF PLANETARY MOTION

Guided Reading Comprehension

170. 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



171. Kepler found that planets orbit around the sun in an oval-shaped path. This oval is called an ellipse, or an elongated oval-shaped orbiting circle. An ellipse has two foci that determine the shape of the ellipse. Planets orbit the sun. 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 in orbit farthest away from the sun. The further apart the foci, the more elongated an ellipse is.

172. 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.



173. 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

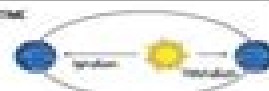
174. Use a ruler to find the eccentricity of the ellipse below. Show your work.



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

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

175. Kepler observed that the speed of stars in its orbit changes in a predictable way. As stars move closer to the sun, it speeds up, and it moves away from the sun, and approaches the aphelion, or point in orbit farthest away from the sun, it slows down.



The planet sweeps the same area up and it sweeps it in the same amount of time. This is Kepler's 2nd Law.

1. What is the difference between aphelion and perihelion?

2. Explain Kepler's 2nd Law in your own words.

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

176. 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	19.20	84.01
Neptune	30.06	164.79

177. 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 1.92 years, which squared equals 3.69. The cube root of 3.69 is 1.54, and that is the distance in AU. In simple terms, the planet is placed in the sun, the shorter the orbital period is. For example, an orbital period for Saturn is longer than an orbital period for Mercury because it is further away from the sun than Mercury.

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

Guided Reading



KEPLER'S LAWS OF PLANETARY MOTION

Reading Comprehension: Guided

TERM	DEFINITION
1. Eccentricity	a. ellipse with eccentricity greater than 0 and less than 1
2. Kepler's 1st Law	b. orbit is a circle or a path around the sun
3. Aphelion	c. elongated oval-shaped orbiting circle
4. Perihelion	d. the point in orbit closest to the sun
5. Astronomical unit	e. the average distance between Earth and the sun
6. Orbital period	f. the time it takes for a planet to complete one orbit around the sun

Questions

1. What is the eccentricity of an ellipse orbit?
 - a. 0
 - b. 1
 - c. 100
 - d. 1000
2. Which of the following is not a determining factor of an ellipse?
 - a. $E = D \div L$
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Guided Reading Articles And Answer Key

Lingsheng Yao



Guided Reading Articles And Answer Key:

Reviewing **Guided Reading Articles And Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Guided Reading Articles And Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Guided Reading Articles And Answer Key

1. Understanding the eBook Guided Reading Articles And Answer Key
 - The Rise of Digital Reading Guided Reading Articles And Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Guided Reading Articles And Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guided Reading Articles And Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Reading Articles And Answer Key
 - Personalized Recommendations
 - Guided Reading Articles And Answer Key User Reviews and Ratings
 - Guided Reading Articles And Answer Key and Bestseller Lists

5. Accessing Guided Reading Articles And Answer Key Free and Paid eBooks
 - Guided Reading Articles And Answer Key Public Domain eBooks
 - Guided Reading Articles And Answer Key eBook Subscription Services
 - Guided Reading Articles And Answer Key Budget-Friendly Options
6. Navigating Guided Reading Articles And Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Guided Reading Articles And Answer Key Compatibility with Devices
 - Guided Reading Articles And Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guided Reading Articles And Answer Key
 - Highlighting and Note-Taking Guided Reading Articles And Answer Key
 - Interactive Elements Guided Reading Articles And Answer Key
8. Staying Engaged with Guided Reading Articles And Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guided Reading Articles And Answer Key
9. Balancing eBooks and Physical Books Guided Reading Articles And Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guided Reading Articles And Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guided Reading Articles And Answer Key
 - Setting Reading Goals Guided Reading Articles And Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guided Reading Articles And Answer Key
 - Fact-Checking eBook Content of Guided Reading Articles And Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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sullivan has been groomed as a spy inside the massachusetts state police msp and joins the special investigation unit siu
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