

## 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 100% around? 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 1<sup>ST</sup> 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 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. 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 in orbit farthest away from the sun. 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

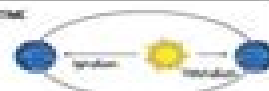
4. Use a ruler to find the eccentricity of the ellipse below. Show your work.



$E =$  \_\_\_\_\_  
 $E =$  \_\_\_\_\_  
 $E =$  \_\_\_\_\_

## KEPLER'S 2<sup>ND</sup> LAW OF PLANETARY MOTION: EQUAL AREA IN EQUAL TIME

24. 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 2<sup>nd</sup> Law.

25. What is the difference between aphelion and perihelion?

26. Explain Kepler's 2<sup>nd</sup> Law in your own words.

## KEPLER'S 3<sup>RD</sup> 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  | 19.20                  | 84.01                        |
| Neptune | 30.06                  | 164.8                        |

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 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.

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



# Questions

## KEPLER'S LAWS OF PLANETARY MOTION

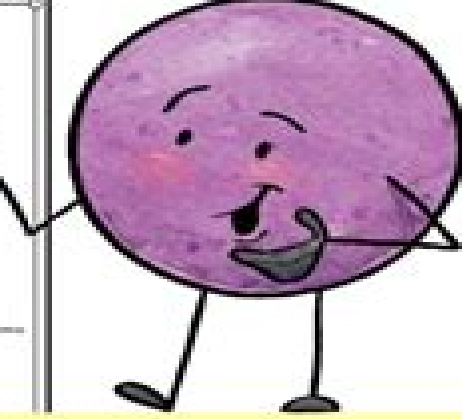
| TERM                            | DEFINITION                                                             |
|---------------------------------|------------------------------------------------------------------------|
| 1. Eccentricity                 | a. ellipse with eccentricity greater than 0 and less than 1            |
| 2. Kepler's 1 <sup>st</sup> 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 |

30. What is the eccentricity of a perfect circle?
- a. 0
  - b. 1
  - c. 0.5
  - d. 1.5
31. Which of the following is not a determining factor in determining the eccentricity of an ellipse?
- a.  $E = D \div L$
  - b.  $E = D \div L$
  - c.  $E = D \div L$
  - d.  $E = D \div L$
32. Which of the following is not a determining factor in determining the orbital period of a planet?
- a. Aphelion
  - b. Perihelion
  - c. Astronomical unit
  - d. Eccentricity
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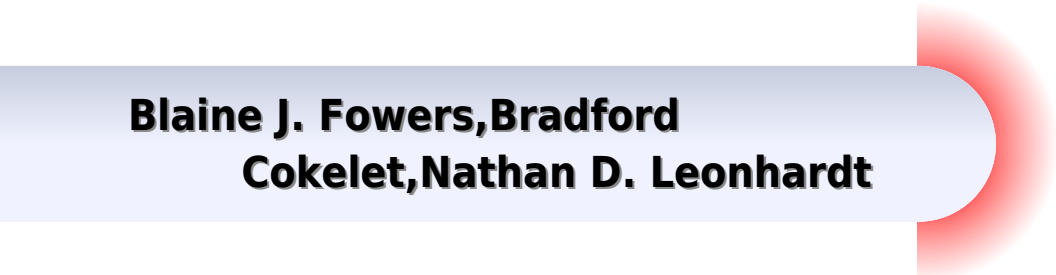
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# PDF AND GOOGLE SLIDES

# Guided Science Urban Life Answers

**Blaine J. Fowers,Bradford  
Cokelet,Nathan D. Leonhardt**



## **Guided Science Urban Life Answers:**

**Citizens in the 'Smart City'** Paolo Cardullo, 2020-09-22 This book critically examines smart city discourse in terms of governance initiatives citizen participation and policies which place emphasis on the citizen as an active recipient and co producer of technological solutions to urban problems The current hype around smart cities and digital technologies has sparked debates in the fields of citizenship urban studies and planning surrounding the rights and ethics of participation It also sparked debates around the forms of governance these technologies actively foster This book presents new socio technological systems of governance that monitor citizen power trust building strategies and social capital It calls for new data economics and digital rights for a city founded on normative ideals rather than neoliberal ones It adopts a normative approach arguing that a reloaded smart city should foster citizenship as a new set of civil and social rights and the citizen as a subject vested with active and meaningful forms of participation and political power Ultimately the book questions the utility of the smart city project for radical municipalism proposing a technological enough but more democratic city an intelligent city in fact Offering useful contribution to smart city initiatives for the protection of emerging digital citizenship rights and socially accrued benefits this book will draw the interest of researchers policymakers and professionals in the fields of urban studies urban planning urban geography computing and technology studies urban politics and urban economics

**Handbook of Urban Politics and Policy** Ronald K. Vogel, 2024-07-05 This authoritative Handbook provides a comprehensive overview of research into urban politics and policy in cities across the globe Leading scholars examine the position of urban politics within political science and analyse the critical approaches and interdisciplinary pressures that are broadening the field

*Advancing Health and Wellbeing in the Changing Urban Environment* Franz W. Gatzweiler, Yong-Guan Zhu, Anna V. Diez Roux, Anthony Capon, Christel Donnelly, Gérard Salem, Hany M. Ayad, Ilene Speizer, Indira Nath, Jo I. Boufford, Keisuke Hanaki, Luuk C. Rietveld, Pierre Ritchie, Saroj Jayasinghe, Susan Parnell, Yi Zhang, 2017-03-22 This book addresses up to date urban health issues from a systems perspective and provides an appealing integrated urban development strategy based on a 10 year global interdisciplinary research programme created by the International Council for Science ICSU and sponsored by the InterAcademy Partnership IAP and the United Nations University UNU The unique feature of this book is its systems approach to urban health and wellbeing solution oriented for science and society and not purely theoretical it can be applied in the context of decision making and has the potential to unlock cities unused potential by promoting health and wellbeing Furthermore the inter and transdisciplinary urban issues addressed in this book are examined from a cross sectoral perspective e g the transport sector is addressed in connection with air pollution respiratory and cardiovascular diseases and the loss of productivity The interconnected thinking to urban health and wellbeing makes the book a particularly valuable resource Decision makers in city administrations and civil society organizations from different geographical regions will find the book an informative and inspiring guide for delivering

towards the goals of the New Urban Agenda for which health can be the vital indicator of progress Graduate students and researchers will be attracted by the case studies systems methods and models provided in the book The Science of Virtue Blaine J. Fowers,Bradford Cokelet,Nathan D. Leonhardt,2024-02 By integrating psychological and philosophical perspectives this book explains how and why scientists study moral virtues *Proceedings of the Annual Convention* National Association of State Universities and Land-Grant Colleges,1897 **Proceedings of the ... Annual Convention of the Association of American Agricultural Colleges and Experiment Stations** Association of American Agricultural Colleges and Experiment Stations. Annual Convention,1895 Volume for 29th 1915 includes the 4th Land Grant College Engineering Association Proceedings of the annual convention of the Land Grant College Engineering Association in 1915 the Land Grant College Engineering Association united with the Association of American Agricultural Colleges and Experiment Stations Proceedings of the National Association of State Universities and Land-Grant Colleges Association of State Universities and Land-Grant Colleges. Convention,American Association of Land-Grant Colleges and State Universities. Convention,Association of American Agricultural Colleges and Experiment Stations. Convention,National Association of State Universities and Land-Grant Colleges. Convention,1897 **Science, Magic and Religion** Mary Bouquet,Nuno Porto,2006-04-01 For some time now museums have been recognized as important institutions of western cultural and social life The idea of the museum as a ritual site is fairly new and has been applied to the art museums in Europe and the United States so far This volume expands it by exploring a range of contemporary museums in Europe and Africa The case studies examine the different ways in which various actors involved in cultural production dramatize and ritualize such sites It turns out that not only museum specialists but visitors themselves are engaged in complex performances and experiences that make use of museums in often unexpected ways Banking ,1928 The Role of R.& D. in Improving the Quality in Urban Life United States. Congress. House. Committee on Science and Technology. Subcommittee on Domestic and International Scientific Planning, Analysis, and Cooperation,1978

The Top Books of the Year Guided Science Urban Life Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Guided Science Urban Life Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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