

M1L6: Gizmo Lab: Orbital Motion – Kepler’s Laws

Name:	Amber Culzon	Date:	June 10, 2023
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Vocabulary: astronomical unit, eccentricity, ellipse, force, gravity, Kepler’s first law, Kepler’s second law, Kepler’s third law, orbit, orbital radius, period, vector, velocity

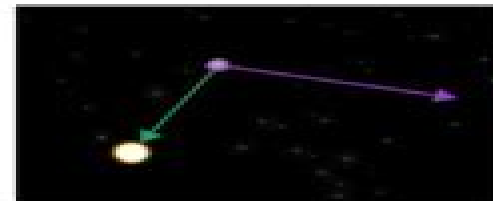
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

The **orbit** of Halley’s Comet, shown at right, has an oval shape.

In which part of its orbit do you think Halley’s Comet travels fastest?	In the first orbit	
In which part of its orbit do you think Halley’s Comet travels slowest?	In the last orbit	
How might a collision between Neptune and Halley’s Comet affect Neptune’s orbit?		
It would not affect it because of its mass		

Gizmo Warm-up

The path of each planet around the Sun is determined by two factors: its current **velocity** (speed and direction) and the **force** of **gravity** on the planet. You can manipulate both of these factors as you investigate planetary orbits in the *Orbital Motion – Kepler’s Laws Gizmo™*.



On the **CONTROLS** pane of the Gizmo, turn on **Show trails** and check that **Show vectors** is on. Click **Play** (▶).

What is the shape of the planet’s orbit?
it has an oval shape
Watch the orbit over time. Does the orbit ever change, or is it stable?
it is stable
Click Reset (↺). Drag the tip of the purple arrow to shorten it and reduce the planet’s initial velocity. Click Play . How does this affect the shape of the orbit?
It makes it more oval.

Explore Learning Gizmo Answers Orbital Motion

Scott C. Dulebohn



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The Top Books of the Year Explore Learning Gizmo Answers Orbital Motion The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled 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 skillfully 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. Explore Learning Gizmo Answers Orbital Motion : 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 weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 engaging 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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checking your breaker and making sure it hasn't flipped or blown a fuse try flipping the breaker and waiting a few seconds before turning it back on