

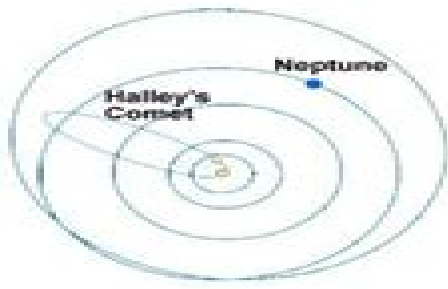
# M1L6: Gizmo Lab: Orbital Motion – Kepler's Laws

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

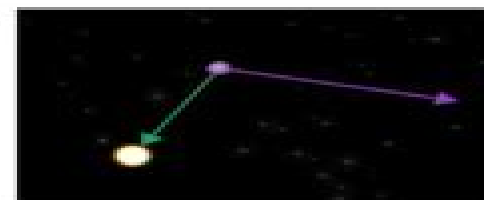
**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

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 <b>Reset</b> (↺). Drag the tip of the purple arrow to shorten it and reduce the planet's initial velocity. Click <b>Play</b> . How does this affect the shape of the orbit?
It makes it more oval.

# Explore Learning Gizmo Answers Orbital Motion

**Lei Huang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the author's name.

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