

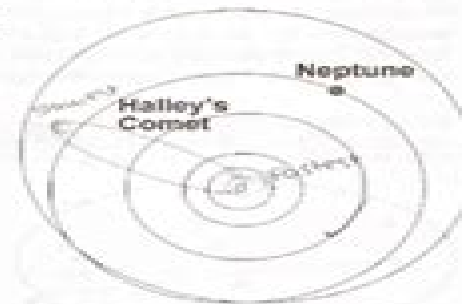
Student Exploration: Orbital Motion – Kepler's Laws

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.)

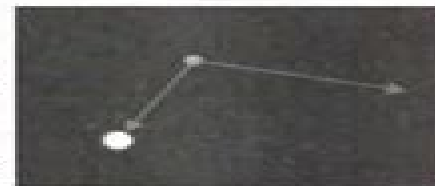
1. The **orbit** of Halley's Comet, shown at right, has an oval shape. In which part of its orbit do you think Halley's Comet travels fastest? Slowest? Mark these points on the diagram at right.
2. How might a collision between Neptune and Halley's Comet affect Neptune's orbit?

It would not affect Neptune's orbit.



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** (▶).

1. What is the shape of the planet's orbit? an ellipse
2. Watch the orbit over time. Does the orbit ever change, or is it stable? stable
3. 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?

the ellipse becomes more elongated/flatter

Orbital Motion Exploration Guide Answers

Liying Dong



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oxidation $\text{Co} \rightarrow \text{Co}^{2+} + 2\text{e}^{-}$ reduction $\text{Fe}^{2+} + 2\text{e}^{-} \rightarrow \text{Fe}$ 24 3 $\text{Ag} + \text{Ni}^{3+} \rightarrow \text{Ni} + 3\text{Ag}^{+}$ oxidation reduction 25 $\text{Cu}^{2+} + \text{Pb} \rightarrow \text{Pb}^{2+} + \text{Cu}$ oxidation reduction 26 $\text{O}_2 + 2\text{H}_2 \rightarrow 2\text{H}_2\text{O}$

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 $5\text{CO} + \text{I}_2 \rightarrow 5\text{CO}_2 + \text{I}_2$ $\text{O}_5 + 5\text{CO} \rightarrow \text{I}_2 + 5\text{CO}_2$

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