

Orbital Motion – Kepler's Laws

Answer Key

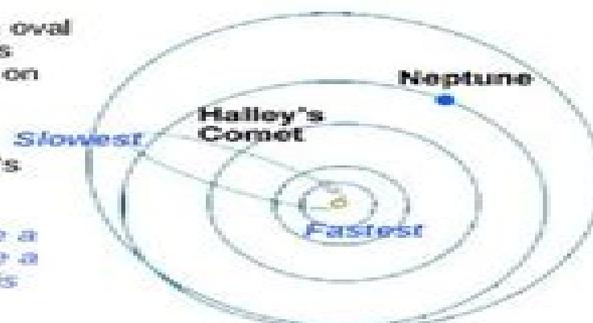
Vocabulary: astronomical unit, eccentricity, ellipse, force, gravity, Kepler's first law, Kepler's second law, Kepler's third law, orbit, orbital radius, period, vector, velocity

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

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?

Answers will vary. [A collision would probably cause a small change in Neptune's orbit, but would not have a drastic effect on Neptune's orbit because Neptune is much more massive than Halley's Comet.]



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 oval*
2. Watch the orbit over time. Does the orbit ever change, or is it stable? *The orbit is 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 orbit becomes smaller and more flattened.



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Joacim Rocklöv



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