

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Student Exploration: Gravitational Motion – Kepler's Laws

**Directions:** Follow these instructions to go through the simulation. Read each question carefully, and provide an answer.

**Background:** Astronomers use, essentially, elliptical orbits (just like Kepler's first law). Kepler's second law (Kepler's third law, or the orbital period, period, orbital velocity)

**Orbit Knowledge Questions:** (Are these NEWTON concepts correct?)

1. The **ORBIT** of the planet around the star is elliptical. Kepler used ellipses to explain part of the orbits of the planets. (Kepler's first law is correct.) Show these points on the diagram above.
2. The right answer is that the elliptical orbit is the correct answer. Kepler's second law is correct.

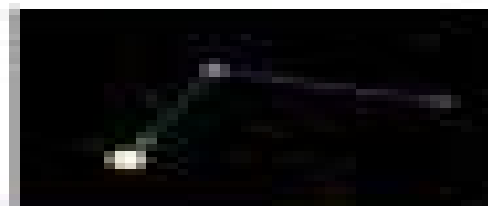


It is correct. The elliptical orbit is the correct answer. Kepler's second law is correct.

**Kepler's Laws:**

The path of a planet around the star is elliptical. The star is at one focus. The planet is at the other focus. The distance from the star to the planet is labeled 'r'. The distance from the star to the other focus is labeled 'c'. The distance from the star to the other focus is labeled 'c'. The distance from the star to the other focus is labeled 'c'.

Use the right-click to show the planet's orbit. The planet's orbit is elliptical. The planet's orbit is elliptical. The planet's orbit is elliptical.



1. What is the shape of the planet's orbit?

The planet's orbit is an ellipse.

2. What is the shape of the planet's orbit? Is it elliptical?

Yes, elliptical.

3. Use the right-click to show the planet's orbit. The planet's orbit is elliptical. The planet's orbit is elliptical. The planet's orbit is elliptical.

Use the right-click to show the planet's orbit. The planet's orbit is elliptical. The planet's orbit is elliptical. The planet's orbit is elliptical.

# Explore Learning Gizmo Orbital Motion Kepler S Law

**N Colangelo**



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