

AP Physics 1 | 9.2 Kepler's Laws Minilab

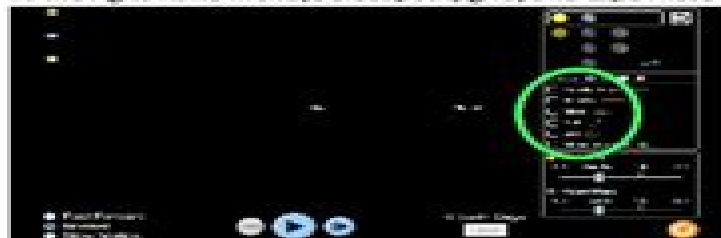
PhET Gravity and Orbits Simulation-Student Guide

Setting up the simulation

Launch the [Gravity and Orbits Simulation](#) for PhET. Once on this page, click the simulator. You will be taken to a screen where you can select "Model" or "To Scale". Select "To Scale".

Kepler's 1st Law

1. In the right-hand menu, select path, grid, and tape measure (see green circle).



2. Push the play button and allow the planet to move through a full orbit (360°).
3. Measure the horizontal distance from the path line on the left to the star (center of orbit). Write the measurement in the table below.
4. Measure the horizontal distance from the path line on the right to the star. Write the measurement in the table below.

(1 point)

| Distance (miles) | |
|------------------------------|--|
| Left side from path to star | |
| Right side from star to path | |

What do you notice about the distances? (0.5 points)

What does this data indicate about the orbit of the planet? (0.5 points)

State Kepler's First Law of Planetary Motion (0.5 points)

Gravity Orbits And Kepler S Law Doc Phet Answers

Albert Leverett Gridley



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Repeal Kepler's Laws: Newton and Kepler's Planetary Theory Rejected T. W. Dow,1960 **Demonstration of Kepler's Third Law and the Effect of Elipticity of Planetary Orbits** Albert Leverett Gridley,1905 *Keplerian Ellipses* Bruce Cameron Reed,2023 Kepler s three laws of planetary motion were a stunning development in human intellectual history This second edition is a concise self contained treatment of Kepler Newton planetary orbits at the level of an advanced undergraduate physics student New to this edition are elements such as a detailed derivation of Newton s shell point equivalency theorem a revised derivation of the polar equation for an ellipse Kepler s third law for non inverse square central potentials a chapter on transfer and rendezvous orbits and an expanded treatment of methods of calculating the average distance between the Sun and a planet The approach is student friendly featuring brief sections clear notation and diagrams and mathematics that undergraduates will be comfortable with accompanied by numerous exercises

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