

Intro

Measuring

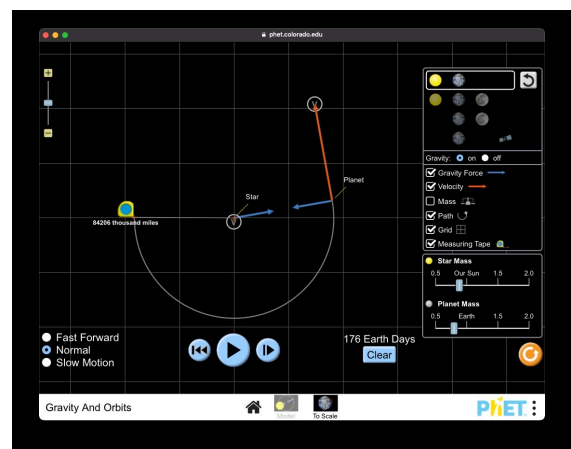
- Star to planet ≈ 92000 miles
(Right)
- Star to planet (L) ≈ 95000 miles
- Ideal: 94000 miles

Gravity.

- Without gravity the planet shoots into space tangentially with its path.
- The planet takes a longer path on the other side and comes back on the return.
- When the velocity suddenly drops the planet quickly drops towards the star.

Kepler' Laws

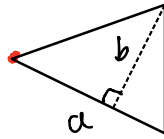
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2. When I change the mass of the planet there is no observable difference. There will be a difference with the rate of falling but with only a scale from 0.5x to 2.0x for the planet the difference is insignificant to the stars mass).

3. Triangle near:

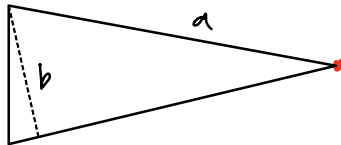
20 days



$$a = 50000 \text{ miles}$$

$$b = 45000 \text{ miles}$$

$$A = 1.13 \times 10^9 \text{ mi}^2$$



$$a = 138000 \text{ miles}$$

$$b \approx 17000 \text{ miles}$$

$$A = 1.17 \times 10^9 \text{ mi}^2$$