## Astronomy Ranking Task: Kepler's Laws - Orbital Motion

## Exercise \#2

Description: The figure below shows four locations (A - D) of an asteroid during its elliptical orbit around the Sun.


Ranking Instructions: Rank the speed (from fastest to slowest) that the asteroid would have at each of the four locations.

Ranking Order: Fastest $1 \ldots \_^{2} \_Z^{3} \_{ }^{4} \_$Slowest
Or, the orbital speed at each location would be the same. $\qquad$ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

