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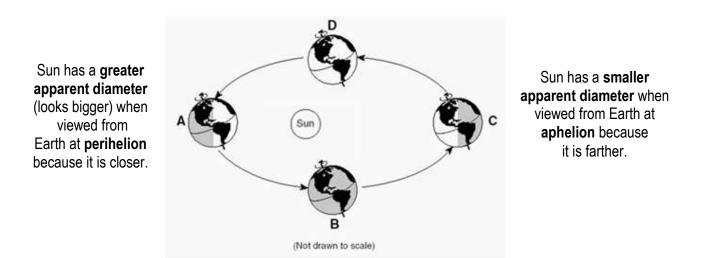
## Topic: Aim:

# Earth Motions

What are some other Laws of Planetary Motion?

### Law II: When orbiting the Sun, a planet sweeps out equal areas in an equal amount of time. This REALLY means ...

- When a planet is closer to the Sun, it has a greater orbital velocity .
- When a planet is farther away from the Sun, its orbital velocity is slower.



#### Law III:

Outer planets have a longer period of revolution than inner planets.

- 1 Outer planets have longer orbits.
- 2 Outer planets travel slower.

### Law of Universal Gravitation: (Isaac Newton)

The gravity between two celestial objects is **<u>GREATEST</u>** when:

- 1. the objects are closer together
- 2. The objects have a greater mass