

## OPEN RESPONSE E MOTION + FORCES

An attractive force is responsible for keeping satellites in orbit around Earth. The table below gives the masses of seven satellites and the distances between each of these satellites and the center of Earth.

Satellite	Mass (kg)	Distance between Satellite and Center of Earth (km)
1	50	7,000
2	100	14,000
3	200	7,000
4	200	14,000
5	400	14,000
6	400	28,000
7	800	28,000

- Identify the attractive force that holds satellites in orbit.
- Explain why satellite 3 does not experience the same amount of attractive force as satellite 1.
- Identify one other satellite that experiences the same amount of attractive force as satellite 4, and explain why satellite 4 and the satellite you identified experience the same attractive force.