

HS-ESS1-e – Use mathematical and computational representations of natural and man-made solar system objects in order to describe their motions and predict their trajectories and/or collisions.

The same Newtonian gravitational laws governing orbital motions apply to human-made satellites as well as planets and moons.

Mathematical representations for the gravitational attraction of bodies and Kepler's Laws of orbital motions should not deal with more than two bodies, nor involve calculus.