

New York State Science Learning Standards EXPLORE

High School

- **HS-PS2-4.** Use mathematical representations of Newton’s Law of Gravitation and Coulomb’s Law to describe and predict the gravitational and electrostatic forces between objects.
- **HS-ESS1-4.** Use mathematical or computational representations to predict the motion of orbiting objects in the Solar System.

Disciplinary Core Ideas:

- PS2.A: Forces and Motion
- PS2.B: Types of Interactions
- ESS1.B: Earth and the Solar System

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Systems and System Models
- Scientific Knowledge Assumes an Order and Consistency in Natural Systems
- Influence of Science, Engineering, and Technology on Society and the Natural World
- Interdependence of Science, Engineering, and Technology