



Vocabulary: Gravitational Force



Vocabulary

- Force – something that can cause a change in motion; a push or a pull.
 - When you push or pull an object, you exert a force on the object. Other examples of forces include *gravity*, the electrostatic force, and the strong and weak nuclear forces.
- Gravity – the force of attraction between all objects in the universe.
 - The magnitude of the gravitational force between two objects depends on the masses of the two objects and the distance between them.
- Vector – a representation that specifies the direction and magnitude of a quantity.
 - In physics, vectors are used to represent displacement, velocity, acceleration, force, and other quantities that have a specific direction.
 - Vectors are represented visually by arrows.
 - A vector can be resolved into perpendicular components.
 - For example, “ $6.0\mathbf{i} + 3.0\mathbf{j}$ ” indicates the vector points 6 units east and 3 units north.

