**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**i** + 3.0**j**” indicates the vector points 6 units east and 3 units north.