

# ROLLER COASTER VOCAB

## DEFINED

1. **CENTRIFUGAL FORCE** – the force **outwards** when moving in a circle (really Newton’s First Law of Motion).
2. **CENTRIPETAL FORCE** - the force **inwards** when moving in a circle.
3. **TERMINAL VELOCITY** – **Maximum velocity** (speed) something can fall on Earth (120 mph for humans).
4. **UP STOPS** – small wheels on a roller coaster that help keep it on the track.
5. **G FORCE** – “Gravitational Force” the increase of experienced (felt) force when something accelerates while turning and/or accelerating away from the Earth.
6. **FREEFALL** – freely falling in a gravitational field
7. **AIR RESISTANCE**- friction (force) that slows object moving through the air (atmosphere).
8. **ACTION FORCE** – the “**push**” or “**pull**” applied to an object to cause it to move.
9. **REACTION FORCE** – the **result** of a “push” or “pull”.  
The movement of the object in the opposite direction.
10. **NORMAL FORCE** - The **support force** exerted upon an object which is in contact with another object.  
(usually upward and/or perpendicular to the object)