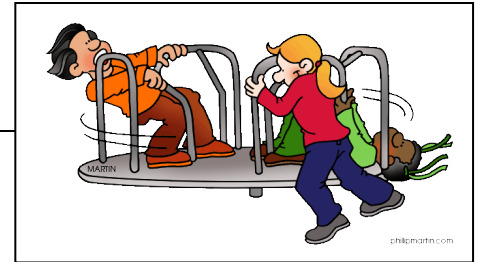


Week 22 – SCIENCE NOTE PAGE

Acceleration



Acceleration

- **Acceleration:** How quickly **velocity** _____ over time
- **Acceleration** occurs when objects do ANY of the following:
 - Change speed (slow down or speed up)
 - Change direction
- **Examples:** _____

Acceleration

= change in velocity

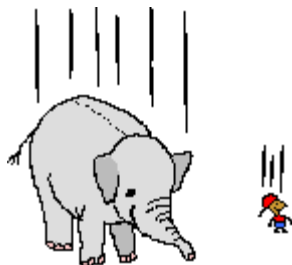
change in speed Change In Direction Change In both



Acceleration & Gravity



- REVIEW: _____ is a **force** –measured in Newtons (N)
- **Forces cause acceleration**
- **Acceleration = Force/mass ...or $a = F/m$...UNITS: Newtons/kilograms (N/kg)**
 - On Earth, **gravity causes objects to accelerate** *about* 10 meters per second every second they are in freefall.



Deceleration

- **Deceleration** is a way to say that an object is _____ **down**.
- Deceleration is a **decrease in velocity** over time.
- There must be a _____ applied to cause the change in speed

