

# Summary of Concepts

- X and Y directions are Independent!
  - ➔ Position, velocity and acceleration are vectors
- $F = m a$  applies in both x and y direction
- Newton's 3<sup>rd</sup> Law
- Relative Motion (Add vector components)

$$\vec{V}_{sg} = \vec{V}_{sw} + \vec{V}_{wg}$$