

$$\Delta x = A t^{2}$$

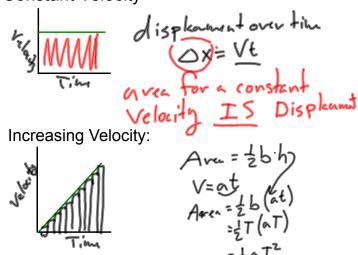
$$A = \frac{\Delta x}{t^{2}}$$

$$\left[\frac{m}{S^{2}}\right]$$

They are the same units as acceleration BUT they are definitely not the same values on our graphs!

1st explanation:

Constant Velocity



For an accelerating Object starting from rest we expect:

$$\Delta x = \frac{1.49}{2(2.8)} = 1.49$$

$$V = at + V_0$$

$$A = a = 2.8$$

For an accelerating object with an initial velocity