

KINEMATIC EQUATIONS

Why and when Kinematic Equations are used

•	Kinematic E	quations are the	_expressions used to predict		
		information about an object's	<u>.</u>		
	They can	be used when the	of an object is		

THE	KINEMATIC EQUATIONS
*	$\Delta X = V_i t + \frac{1}{2} a t^2$
*	V _f = V _i + at
*	$V_{f}^{2} = V_{i}^{2} + 2a\Delta x$
**	$\Delta X = \frac{1}{2}(V_i + V_f) t$
	Vous pour bost friende III

Symbols and Units Review
ΔX=
Vf=
Vi=
A=
Δt=

Don't guess, USE G.U.E.S.S!

In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of 4.0 m/s². What distance would she have had to travel in order to reach the maximum speed?

G	U	E	S	S
Find what is given	Find what is unknown	Find Equation to use (rearrange	Substitute	Solve
1) Write the and the that have been to you in the problem	2) Label what is unknown with a question mark	3) LABEL the variable that is NOT BEING USED -Pick the equation that does NOT have that variable	4) Put a number in place of every variable we have	5) Do the CORRECT MATH
V _i = V _f = ΔT= ΔX= A=	V _i = V _r = ΔT= ΔX= A=			