 You have probably learned in a non-Physics class that velocity is speed but with This is Speed (a) is a change in compared to time. Velocity (a) is a change in compared to time. Speed and velocity only have the same value if you move or the period of time is very Average vs Instantaneous	
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o speed = velocity	
Acceleration O Velocity is the over the a.k.a. the telephone changes. As an equation vavg =	hat
o Acceleration is the over the – a	.k.a.
the that changes. As an equation $a_{avg} =$	
o Note: Acceleration does NOT mean, "To get" change in 'v' cour	nts.
o Since velocity is a (not a scalar), there are two ways to get acceleration,	
o Change the of velocity by/	. In
a car this means to	
o Change the of the velocity, by In a car this m	eans
to	
o In both cases, you can tell that is changing even if your eyes are	
(Note: Constant velocity be felt; otherwise traveling in an would he	urt.)
<u>Deceleration vs. Acceleration</u>	
Deceleration means, not acceleration.Acceleration Velocity Motion	

Fre	<u> Fall</u>						Notes: U1P1c
0		_					/
	_				our level of Ph	-	
0				•	_		eleration will be 9.8 $^{\rm m}/_{\rm s^2}$
	pointing	,1	because Eart	h's		=_	_=
0	When an obj	ect is rising	upward, a=		_, because		causes the acceleration.
0	When an obj	ect is at the	top of its mo	otion, a=_	, be	ecause	
Su	ppose and arro	ow is fired u	pward with	an initial	velocity of 301	m/s. How	will it move?
t	a	v	v_{avg}	d	Δd		
			1	03.5			
	v-t, a-t Grap	hs and Thr	ee Main Ty	pes of Mo	<u>otion</u>		
Con	stant						
						I	s slope on a vs
						1	since is
						and	is
Con	stant					is	s area on a vs
						I	since is
						I	is
							 _
						i	s on a vs
						I	since is
Con	stant					1	
				I		and	is
						I	s on a vs
						graph	since is
						I	is