Tobin's Spirit Guide to Graphs of Motion

Position Graphs:



Velocity Graphs:



Acceleration Graphs:		
	Moving to the Left (Negative Velocity)	Moving to the Right (Positive Velocity)
Speeding Up (Going faster and faster)	Moving to the Left (Negative Velocity) In order to speed up, the acceleration and the velocity must be in the same direction. If it is moving <u>left</u> and going faster and faster, the acceleration must also be to the <u>left</u> , and therefore <u>negative</u> .	In order to speed up, the acceleration and the velocity must be in the same direction. If it is moving <u>right</u> and going faster and faster, the acceleration must also be to the <u>right</u> , and therefore <u>positive</u> .
Constant Velocity	If the velocity is constant, the acceleration is zero, regardless which way it is moving.	If the velocity is constant, the acceleration is <u>zero</u> , regardless which way it is moving.
Slowing Down (Going slower and slower)	In order to slow down, the acceleration and the velocity must be in the opposite directions. If it is moving <u>left</u> and going slower and slower, the acceleration then must be to the <u>right</u> , and therefore <u>positive</u>	In order to slow down, the acceleration and the velocity must be in the opposite directions. If it is moving <u>right</u> and going slower and slower, the acceleration then must be to the <u>left</u> , and therefore <u>negative</u>