Cornell Notes 99	Topic/Objective: Momentum and Impulse		Name:	
			Class/Period:	
			Date:	
Essential Question: How are momentum and impulse related to Newton's second law?			Newton's second law?	
Questions:		Notes: Momentum is inertia in motion.		
		momentum = mass x velocity		
		Example:What is the momentum of a 10	kg bowling ball moving at 20 m/s ?	
		What would you have to change to chang	ge momentum?	
		What does it take to cause an		
	A is needed to cause an			
		The longer a is applied, the greater the change in		
		momentum.		
is a physics term that relates a force and the amoun		hat relates a force and the amount of		
		time it is applied.		
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		force x time = impulse		
Summary:				

Questions:	Notes: Example: What impulse is applied to a baseball if the batter uses a 50 N		
	force for 0.2 seconds?		
	It is impulse that causes a change in momentum.		
	Δ is a symbol used to indicate a change in something.		
	So $Ft = \Delta$ mom		
	A change in anything is the final value - the initial value.		
	Example: What is the change in your bank account if you start with \$100 and		
	end up with \$500?		
	Example: What is the change in momentum if a 1000 kg car accelerates from		
	20 m/s to 50 m/s?		
Summary:			

Questions:	Notes: Example: A 5 kg mouse is moving at 10 m/s. If he comes to a stop, what	
	was his change in momentum?	
	Since impulse causes a change in momentum Ft = ∆mom	
	Example: A 20 kg object starts at rest. In 5 s, it has a speed of 100 m/s.	
	How much force was used?	
	Give examples of a moving object coming to a rest.	
	How could you minimize the force felt by these objects?	
Summary:		

Questions:	Notes: Example: A 800 kg car is moving at 30 m/s. The driver slams on the
	breaks. It takes the car 3 s to stop. What force did the brakes supply?
	If the driver of the car above eased on the breaks for 30 s to come to a stop,
	how much force did the breaks supply?
	Example: A 40 N force is applied to a 5 kg object for 10 s.
	If the object was initially moving at 20 m/s, what is its new speed?
Summary:	