

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?		
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 change 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 amount of	
	time it is applied.	
	force x time = impulse	
Summary:		

<b>Questions:</b>	<b>Notes:</b> 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.
	$\Delta$ is a symbol used to indicate a change in something.
	So $Ft = \Delta \text{ mom}$
	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?
<b>Summary:</b>	

[illegible]

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 brakes 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:	