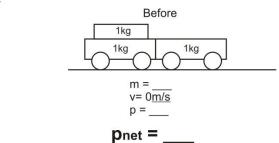
Physics	cs 100 N	ame:
Notes: Momentum and Impulse		
Definition of Momentum:		
Symbo	ol: Why?	
Formul	ula:	
Three ways to arrange the momentum formula:		
Momentum Units:		
Practice Using the Momentum Formula:		
1.	A 3kg goliath frog has a velocity of 2m/s. What's its mome	entum?
2.	A 50kg pig has a momentum of 150kgm/s. What's the pig	's velocity?
3.	A farmer is chasing the pig. The farmer's velocity is 4m/s, farmer's mass?	and her momentum is 200kgm/s. What is the
Is momentum a vector quantity or a scalar quantity? Why?		
Net Momentum:		
Law of Conservation of Momentum:		

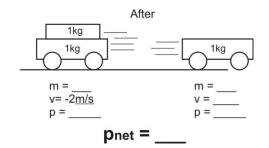
Practice Using the Law of Conservation of Momentum:

1kg After
1kg 1kg 1kg
1kg 1kg

w = ___
y = ___
p = ___

5.





What is "impulse?"

Formula relating impulse to momentum:

Units for impulse:

Three ways to rearrange the impulse/momentum formula:

6. A 2kg block of wood moving at a velocity of 5m/s slows to a stop over a time of 3 seconds. What net force brought the wood to a stop?

7. A 1,000kg car is rolling toward you at a velocity of 2m/s. In order to slow the car to a velocity of 1m/s by pushing against the car for 10 seconds, how hard will you have to push?

Conservation of Momentum Practice Problems (attach extra paper if necessary)

