Momentum and Impulse

Name: _____ **Grade&Sec:** _____

OBJECTIVE: Determine the effect of a force on an object's momentum.

DIRECTION: Perform the Activity "Momentum and Impulse" to complete the table below.

	ATTEMPTS	Set value	t	x	v
1	Set the applied force	-5 N			
	Set the amount of time the force is applied	2 s			
2	Set the applied force	3 N			
	Set the amount of time the force is applied	2 s			
3	Set the applied force	10 N			
	Set the amount of time the force is applied	2 s			

GUIDE QUESTIONS:

1. Which has the greatest force?
   Answer: _____
2. What did you notice about the relationship of force and velocity?
   Answer: _____
3. Which attempt covered the longer period of time?
   Answer: _____

CONCLUSION:

A _____acting for a given amount of time will _____ an object's momentum. Any amount of force would (eventually) bring a moving object to _____. If the force is very small, it must be applied for a _____, but a greater force can bring the object to rest in a _____.

LIVEWORKSHEETS