

## 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 \_\_\_\_\_.