NAME			DATE
	iven two carts of t		el masses, m and M, and a long track that ensures both carts
	t. The carts do NC		ticeable friction. He also has access to other commonly available e any way to connect together when they come into contact. He a
1. When	the two carts colli	de, is tl	he total momentum of the system conserved?
2. When	the two carts collie	de, is tl	he mechanical energy of the two-cart system conserved?
3. When	the two carts collie	de, is tl	he force m exerts on M equal to the force that M exerts on m ?
Experi	mental Desi	an	
Outline a three que	procedure that Blastions above. Givent teach measurement	ake cou each i	uld follow to make measurements that could be used to answer measurement a meaningful algebraic symbol and state with wh nade. Draw a labeled diagram showing each piece of equipmen
What N	eeds to Be Measu	red	Procedure:
	ebraic Symbols		110000000
	-		
Labeled	Diagram of the S	etup	
	g		
1			

•	Explain how the measurements made in Part A can be used to answer question 1.
_	
_	
_	
_	
_	
	. Explain how the measurements made in Part A can be used to answer question 3.
	. Explain how the measurements made in Part A can be used to answer question 3.