03-06 Bumper Testing Lab			Name:
Object	ive		
•	Create	a bumper resulting in the lowest force during a collision.	
Materi	ials		
•	Dynam	nics track	
•	Lab cart with built-in force sensor		
•	Paper		
•	Tape		
•	Scissor	'S	
Setup	(before	class)	
2. 3.	Place a second stopping bar at the point where the cart is to be released. The force sensor should not quite max out with no bumper in place.		
Proced		same makes a house or out of man or and tone	
1.		eam makes a bumper out of paper and tape.	
	a.	2.5 cm thick × 4 cm high × 10 cm long	
	b.	Do not use excessive tape.	
	c.	Paper is the structural component; tape is only to hold the paper together	
	d.	No wedges or parts to go under/around force sensor to slow it by friction directly.	n. The sensor should hit the bumpe
2.	The bumper is placed against the end of the track.		
3.	The cart is released from a distance as set by the teacher.		
4.	4. The maximum force is read from the sensor.		

5. What is your group's lowest force? ___

6. What could be done to lower the force? _____