## **Crash Cushion Design Challenge**

Name:	Period:
<b>Purpose:</b> How can we design a cwall?	erash cushion to reduce the forces that act on a vehicle during a collision with a
	bout Newton's 3rd law of motion that you can incorporate into this design?
Prelab questions: What are the Control Trials?	
What are the Experimental Trials	3?
What is the Independent Variable	?
What is the Dependent Variable?	
How will you know whether you	ar crash cushions are effective at reducing the impact forces felt by the cart?
Brainstorm ideas: (include dra  Collect Data: Acceleration: Displacement:	
Velocity:	
Analysis: What worked well?	What will you change?
Improve: (Include ideas or dra	awings on how you will improve your design)
Collect Data:	
Acceleration:	
Displacement:	
Velocity:	

Did the Crash Cushions help in reducing the impact acceleration of the crash? Which Crash Cushion was more effective?