

**Argumentation Teaching Task Rubric – Revised**  
**District Common Assignment: Quarter 3: Grade 8**  
**Performance Expectation MS-PS2-1**

Scoring Elements	Emerging		Approaches Expectations		Meets Expectations		Advanced
	1	1.5	2	2.5	3	3.5	4
<b>Writing Rubric</b>							
<b>Controlling Idea</b>	Makes an unclear or unfocused claim that argues how the improved bumper reduces the force of impact.		Makes a general claim that argues how the improved bumper reduces the force of impact, with an uneven focus.		Establishes and maintains a clear claim that argues how the improved bumper reduces the force of impact.		Establishes and maintains a clear, specific, and credible claim that argues how the improved bumper reduces the force of impact.
<b>Development/Use of Sources</b>	Explains the interaction of forces between the two cars and the data but the argument is irrelevant, incomplete, or inaccurate.		Explains the interaction of forces between the two cars and how the data supports the argument with minimal or minor errors.		Accurately explains the interaction of forces between the two cars and how the data supports the argument.		Thoroughly and accurately explains the interaction of forces between the two cars, using data to support and develop the argument.
<b>Selection &amp; Citation of Evidence</b>	Includes minimal details from sources.		Includes details, examples, and/or paraphrasing from sources that are relevant to the controlling idea.		Includes details, examples, and/or paraphrasing from sources that are <b>relevant</b> to how the improved bumper reduces the force of impact.		Includes <b>well-chosen</b> details, examples, and/or paraphrasing from sources that <b>support</b> the how the improved bumper reduces the force of impact.
<b>Content Rubric</b>							
	<b>1</b>	1.5	<b>2</b>	2.5	<b>3</b>	3.5	<b>4</b>
<b>Disciplinary Core Idea:</b> <i>PS2.A: Forces and Motion</i>	Identifies or otherwise applies irrelevant OR relevant information about Newton’s 3 <sup>rd</sup> Law to the bumper design, but with major errors or omissions.		Identifies or otherwise applies relevant information about Newton’s 3 <sup>rd</sup> Law to the bumper design with minor errors or omissions.		Explains or otherwise applies relevant and accurate information about Newton’s 3 <sup>rd</sup> Law to the bumper design.		Explains and applies relevant and accurate information about Newton’s 3 <sup>rd</sup> Law to the bumper design.
<b>Crosscutting Concept:</b> <i>Systems and System Models</i>	Constructs accurate, labelled, and detailed models that identifies or makes connection about the forces acting on Car 1 and Car 2 that are irrelevant OR the connections are relevant but there are major errors or omissions.		Constructs accurate, labelled, and detailed models that identifies or makes connection(s) about the forces acting on Car 1 and Car 2 with minor errors or omissions.		Constructs accurate, labelled, and detailed models that explains OR makes accurate connections about the forces acting on Car 1 and Car 2.		Constructs accurate, labelled, and detailed models that explains and makes accurate connections about the forces acting on Car 1 and Car 2.
<b>Science and Engineering Practice:</b> <i>Design a solution</i>	Uses no data to evaluate how well the design addresses Newton’s 3 <sup>rd</sup> Law. The redesign of the original bumper is inappropriate or incomplete.		Uses relevant but limited amounts of data to evaluate how well the design addresses Newton’s 3 <sup>rd</sup> Law and outlines an appropriate redesign of the original bumper.		Uses relevant and adequate amounts of data to evaluate how well the design addresses Newton’s 3 <sup>rd</sup> Law and using the data explains an appropriate redesign of the original bumper.		Uses detailed and complete data to evaluate how well the design addresses Newton’s 3 <sup>rd</sup> Law and provides a detailed rationale with supporting data for the appropriate redesign of the original bumper.

