

Race to Tie Rubric

STUDENT: _____

EVALUATOR: _____ DATE: _____

CRITERIA	UNSATISFACTORY (Below Performance Standards)	PROFICIENT (Meets Standards)	ADVANCED (Demonstrates Exceptional Performance)
Portfolio An organized collection of work from the project.	<p>Fails to meet any of the <i>Proficient</i> descriptors</p> <p>Potential Pitfalls:</p> <ul style="list-style-type: none"> Fails to take into account the different starting position. Graphs are sloppy, difficult to read, mislabeled, or lack labels. Not all group members participate in exploration. Did not include all work. Majority of calculations incorrect. <p>0 ----- 8 ----- 16</p>	<ul style="list-style-type: none"> Includes all major work for the project (data sheets, graphs, etc) <p><u>and you...</u></p> <ul style="list-style-type: none"> List the car's name Provide an accurate graph of the race showing each car's motion and where they tie Calculate the velocity of each car Calculate the placement of your car so it will tie the pace car Show the final equation for your car. <p>17 ----- 19 ----- 21</p>	<p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> All graphs are easy to read All calculations are correct <p>23 ----- 24 ----- 25</p>
Presentation Students should explain the big ideas of their project.	<p>Fails to meet any of the <i>Proficient</i> descriptors.</p> <p>Potential Pitfalls:</p> <ul style="list-style-type: none"> Not all group members participate in presentation. Group is not engaged in other group's presentations. Body language and delivery is somewhat unprofessional. <p>0 ----- 8 ----- 16</p>	<ul style="list-style-type: none"> Methodology for each calculation is accurately and clearly explained Accurately addresses questions posed Majority of calculations correct – no major procedural errors Conduct a professional presentation: <ul style="list-style-type: none"> Maintain eye contact with audience Maintain appropriate volume and inflection Use appropriate gestures Exercise good timing; Avoid awkward pauses Presentation is relevant; does not exclude any required information <p>17 ----- 19 ----- 21</p>	<p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> During presentation explained why the graph is a straight line. During presentation, can verbally relate how to find slope with what the slope means. All graphs are easy to read. All calculations are correct. <p>23 ----- 24 ----- 25</p>
Race Tolerance measured when pace car completes the race.	<p>Fails to meet any of the <i>Proficient</i> descriptors</p> <p>Potential Pitfalls:</p> <ul style="list-style-type: none"> Starts car too early. Calculations incorrect. Did not measure properly. <p>0 ----- 2 ----- 4</p>	<ul style="list-style-type: none"> The car is within 5 to 7 inches of the finish line when the teacher car finishes in first or final heat. <p>5 ----- 6.5 ----- 8</p>	<p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> The car is within 0 to 3 inches of the finish line when the teacher car finishes in either heat The car is within 5 to 7 inches of the finish line when the teacher car finishes in both first and final heats. <p>9 ----- 9.5 ----- 10</p>

<p>Final Reflection</p> <p>How they did and what they might do better next time.</p>	<p>Fails to meet any of the <i>Proficient</i> descriptors</p> <p>Potential Pitfalls:</p> <ul style="list-style-type: none"> • Student does not accurately describe the difficulties • Sentences are not complete • Reflection does not address problem solving strategies • Ignores possible ways to improve results. <p>0 ----- 2 ----- 4</p>	<ul style="list-style-type: none"> • Student describes the math they learned and the difficulties they encountered • Reflection explains some of the problem solving strategies used • Discusses possible ways to improve <p>5 ----- 6.5 ----- 8</p>	<p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> • Student expresses the reasons behind the difficulties encountered by other groups as well as their own • Thoughtful and well written complete sentences <ol style="list-style-type: none"> a. Response is supported by examples and personal reflections b. Illustrates a complex and important issue and simplifies it c. No grammatical or spelling errors • Specific examples of how you could improve your results? <p>9 ----- 9.5 ----- 10</p>
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COMMENTS: