

Mousetrap Car Rubric

Quality

Category	4	3	2	1
Car Construction	Neat construction and assembly. Excellent attention to detail.	Good construction and assembly and good attention to detail.	Car holds together, but looks like a last-minute project.	Poor construction and assembly. No attention to detail.
Car Design	Unique theme/name and original design. Excellent level of creativity.	Interesting theme/name. Good level of creativity.	Basic theme/name. Basic level of creativity.	No detectable theme/name. No apparent creativity.
Car Performance	Travels 4 meters in a straight line.	Travels 3-4 m in a straight line. Or 4 meters, but not a straight line.	Travels 2-2.9 m in a straight line. Or less than 4 meters, but not a straight line.	Travels less than 2 m.

Unit 1: Motion

Category	4	3	2	1
ESK 1.1 I can do multi-step conversions using dimensional analysis	All units are correctly labeled and converted to standard base units.	Most units are correctly labeled and converted to standard base units.	Some units are correctly labeled and converted to standard base units.	Few units are correctly labeled and converted to standard base units.
ESK 1.2 I can estimate and accurately take measurements using correct units.	All work is shown to take measurements. Work is accurate and reasonable.	Most work is shown to take measurements. Work is accurate and reasonable.	Some work is shown to take measurements and some work may not be accurate or reasonable.	Little work is shown, or the measurements are unreasonable or missing.
ESK 2 I can draw and interpret motion graphs of various moving objects.	Graphs are all complete, clearly labeled and have a written explanation with each graph.	Graphs are complete, and may have a few mislabels. Explanation with graph does not include all necessary vocab words.	Graphs are not complete, it is not clear what the labels are. Explanations are incomplete or missing.	One or more graphs are missing. There are no explanations or evidence of understanding the graphs.

Collaboration

Category	4	3	2	1
Takes Responsibility for Oneself	<p>Is prepared and ready to work</p> <p>Consistently uses tools as agreed upon by the team to manage project tasks</p> <p>Does tasks without having to be reminded</p> <p>Completes tasks on time</p>	<p>Is prepared and ready to work</p> <p>Consistently uses tools as agreed upon by the team to manage project tasks</p> <p>Does tasks with few reminders</p> <p>Completes tasks on time</p>	<p>Is usually prepared and ready to work</p> <p>Uses tools as agreed upon by the team to manage project tasks, not consistently</p> <p>Needs to be reminded of tasks</p> <p>Completes some tasks on time</p>	<p>Is not prepared and ready to work</p> <p>Does not use tools as agreed upon by the team to manage project.</p> <p>Does not complete project tasks all the way or on time.</p>
Respects Others	<p>Is polite and kind to teammates</p> <p>Acknowledges and respects other perspectives; disagrees diplomatically</p>	<p>Is polite and kind to teammates</p> <p>Usually acknowledges and respects other perspectives and disagrees diplomatically</p>	<p>Is usually polite and kind to teammates</p> <p>Usually acknowledges and respects other perspectives and disagrees diplomatically</p>	<p>Is impolite or unkind to teammates (may interrupt, ignore ideas, hurt feelings)</p> <p>Does not acknowledge or respect other perspectives</p>
Organizes Work	<p>Creates a detailed task list that divides project work reasonably among the team</p> <p>Sets a schedule and tracks progress toward goals and deadlines</p> <p>Assigns roles if and as needed, based on team members' strengths</p> <p>Uses time and runs meetings efficiently; keeps materials, drafts, notes organized</p>	<p>Creates a task list that divides project work among the team, but it may not be in detail or followed closely</p> <p>Sets a schedule for doing tasks but does not follow it closely</p> <p>Assigns roles but does not follow them, or selects only one "leader" who makes most decisions</p> <p>May occasionally waste time; keeps materials, drafts, notes, but not always organized</p>	<p>Does project work without creating a task list</p> <p>Does not set a schedule and track progress toward goals and deadlines</p> <p>Does not assign roles or share leadership; one person may do too much, or all members may do random tasks</p> <p>Wastes time and does not run meetings well; materials, drafts, notes are not organized (may be misplaced or inaccessible)</p>	<p>Group completes little work and can show no evidence or planning or organizing ahead of time.</p>