

# EV Challenge 2023 OPTIONAL CATEGORIES SCORING CRITERIA



Points	0 – 1	1 – 2	2 – 3	3 – 4	4 – 5
<b>Craftsmanship</b>	Little to no apparent theme or design plan, not attractive, sloppy execution	Minimal effort towards theme or design plan, somewhat attractive, not well executed	Decent effort towards theme or design plan, mostly attractive, mostly neat presentation, shows decent amount of work and skill	Clear theme or design plan, inclusion of blueprint/drawing, above average attractiveness, neat presentation and execution, above average work and skill, quality build	Supremely clear theme or design plan, inclusion of blueprint/drawing, superior attractiveness, neatness and execution, superior work and skill, superior quality build
<b>Engineering</b>	Little to no explanation or understanding of electrical connections, chassis design or chassis materials, or gear ratios. No car movement with battery.	Minimal effort to explain: electrical connections from battery pack to motor, chassis design or gear ratios as way to increase speed or distance. Some movement on battery	Decent effort to explain: electrical connections from battery pack to motor, chassis design or gear ratios as way to increase speed or distance. Car moves intermittently with battery	Clear understanding and explanation of: electrical connections from battery pack to motor, chassis design or gear ratios as way to increase speed or distance. Car moves with ease using battery	Superior understanding and explanation of: electrical connections from battery pack to motor, chassis design or gear ratios as way to increase speed or distance. Car moves well and the design is optimized for battery power
<b>Upcycled Materials</b>	No mention of material choices.	Minimal effort to explain material choices, consideration of weight, re-use post-race or recyclability	Decent effort to explain material choices in consideration of weight, re-use post-race or recyclability. Material choices were somewhat resourceful	Clear understanding and explanation of material choices in consideration of weight, re-use post-race or recyclability. Material choices showed some ingenuity	Clear understanding and explanation of material choices in consideration of weight, re-use post-race or recyclability. Material choices were very resourceful and very skillfully used.
<b>Documentation Portfolio</b>	Presented little to no research on above topics	Portfolio was not at all concise with presenting research on above categories	Portfolio was somewhat concise and was able to somewhat present /explain research on above categories, Journal was somewhat clear on above topics, somewhat creative	Portfolio was concise. Above average effort to present research, experiments & trial & error, above average clarity on explanation of above topics, above average creativity in journal entries	Portfolio was concise and precise. Superior effort to present research, experiments & trial & error on above topics, superior clarity on explanation of above topics, superior creativity in journal entries