

## The Next Lap Challenge Marking Rubric (Secondary School)

Criteria	Developing	Strong	Exceeding
<b>STEM Understanding &amp; Application</b>	Shows limited understanding of the science behind the design (e.g. forces, motion, aerodynamics).	Demonstrates solid understanding of relevant physics and engineering principles and applies them to the design.	Demonstrates advanced understanding, using accurate and well-explained scientific reasoning (e.g. forces, drag, airflow, energy) to justify design decisions.
<b>Design &amp; Technical Innovation</b>	Design is basic with limited innovation or weak connection to the identified problem.	Design is well-developed, clearly addressing the problem with thoughtful engineering or design features.	Design is highly innovative, forward-thinking and strongly aligned to real Formula 1® challenges; demonstrates originality and strong engineering thinking.
<b>Use of Technology / Modelling / Evidence</b>	Limited use of digital tools or evidence; minimal testing or analysis.	Uses digital tools (e.g. CAD, simulations) and includes some testing, modelling or supporting evidence.	Highly effective use of modelling, simulation, data or testing to validate and strengthen the solution.
<b>Problem Identification &amp; Impact</b>	Problem is unclear, vague, or not clearly linked to circuit changes; solution impact is weak.	Clearly identifies a relevant problem and provides a solution that improves performance, safety or experience.	Clearly defines a specific, insightful and relevant problem linked to changes at Albert Park; demonstrates strong understanding of its importance and presents a solution with clear, meaningful impact on performance, safety, aerodynamics or systems.
<b>Pitch &amp; Communication</b>	Presentation lacks clarity or structure; limited explanation of idea and reasoning.	Clear, engaging and structured presentation explaining the idea, reasoning and impact.	Exceptionally creative and original presentation that stands out. Demonstrates bold, outside-the-box thinking in how the idea is communicated (e.g. storytelling, role-play, simulations, visuals or unique formats). Creativity enhances and strengthens the communication of a clear, well-understood engineering idea. Delivery is engaging, memorable and highly persuasive.