Making Connections: Streamlining and Transportation Technology SPH4C

Learning Goal: The student will describe factors affecting laminar flow, and explain how the design of a vehicle responds to these factors

<u>Instructions</u>: Select one of the following vehicles (or another of your choice, in consultation with your teacher) and research those features of its design that reduce drag. Describe each of these features and how they reduce drag in a format of your choice. Include photos and diagrams where appropriate.

bobsled formula 1 racecar locomotive recumbent bicycle rowboat speedboat sport utility vehicle convertible jet airplane passenger truck rocket snowmobile sport bike submarine

Evaluation Rubric:

Category	Level 1 (5 marks)	Level 2 (6 marks)	Level 3 (7 marks)	Level 4 (8 – 10 marks)
Features	Lists at least 3 distinctly different features.	Lists at least 4 distinctly different features.	Lists at least 6 distinctly different features.	Lists at least 8 distinctly different features.
Descriptions	Includes some description of the features.	Includes a description of the features.	Includes a description both the features and how they reduce drag.	Includes a detailed description of both the features and how they reduce drag.
Diagrams	Some descriptions are supported by relevant diagrams.	Some descriptions are supported by relevant labelled diagrams.	Most descriptions are supported by relevant labelled diagrams.	All descriptions are supported by relevant labelled diagrams.
Presentation	Some attempt at neatness, organization, and legibility is evident.	Product is somewhat neat and legible. Some organization is evident.	Product is mostly neat, organized, and legible.	Product is neat, organized, and legible.

Please note all sources, including those for images.