Driverless Cars and Analysis of Motion   **Grade 12 – Motion and its Applications**

Accelerated Car Rubric

	Level 4	**Level 3**	**Level 2**	**Level 1**
Knowledge and Understanding	Students demonstrate thorough knowledge of the concepts and terminology related to motion.	Students demonstrate considerable knowledge of the concepts and terminology related to motion.	Students demonstrate some knowledge of the concepts and terminology related to motion.	Students demonstrate limited knowledge of the concepts and terminology related to motion.
Application	Students performed the experiment accurately, adapting or extending procedures as required. All calculations were correctly performed.	Students performed the experiment with good accuracy. All calculations were correctly performed.	Students performed the experiment. Most calculations were correctly performed.	Students performed the experiment. Some calculations were correctly performed.

Thinking and Investigation	Students accurately and thoroughly identify whether the evidence supports or refutes the initial prediction or hypothesis and whether it is consistent with scientific theory. Students can identify at least 2 reasonable sources of bias and/or error; and suggest improvements to the inquiry to reduce the likelihood of error.	Students accurately identify whether the evidence supports or refutes the initial prediction or hypothesis. Students can identify at least 2 sources of bias and/or error; and suggest improvements to the inquiry to reduce the likelihood of error.	Students identify whether the evidence supports or refutes the initial prediction or hypothesis with some accuracy. Students can identify at least 1 source of bias and/or error.	Students identify whether the evidence supports or refutes the initial prediction or hypothesis with some accuracy.
Communication	Students recorded all data appropriately and created clear and accurate graphs following all graphing rules.	Students recorded all data appropriately and created accurate graphs following most graphing rules.	Students recorded all data and created graphs following most graphing rules.	Students recorded data and created a graph following some graphing rules.