

ASSESSMENT RUBRIC

Student name: _____

Course:	Science 10	Topic:	Graphs of Speed and Velocity (Rubric 1 of 2)
Outcome(s):	Students will be expected to: - use linear experimentation with appropriate technologies, analyze graphically and quantitatively the relationship among distance, time, and speed (scalar quantities) and the relationship among position, displacement, time, and velocity (vector quantities) (325-1, 212-7, 325-2) - distinguish among constant, average, and instantaneous speed and velocity of an object (325-3, 212-2)		

Skills Assessment Rubric

Working toward achievement (Areas that need work)	Competent (3) * (Achieving outcome)	Strengths (Evidence of in-depth achievement of outcome)
Notes:	1 st Learning Goal: We are learning to conduct a linear experiment using technology. <u>Criteria</u> A - I can measure and record time and position correctly, B - My measurements reflect the precision of the instruments used, C - I can plot the position/time graph that reflected measurements appropriately, D - I can use the plot to find the velocity of the object correctly. Current score:	Notes:
	Notes:	
Notes:	2 nd Learning Goal: We are learning to analyze graphically and quantitatively the relationship among distance, time and speed (scalar quantity). <u>Criteria</u> A - I can use the plot to find the rise and run, B - I can use the slope formula to calculate the speed.	Notes:

	Current score:	
	Notes:	
Notes:	3rd Learning Goal: We are learning to analyze graphically and quantitatively the relationship among position, displacement, time and velocity (vector quantity). <u>Criteria</u> A - I can use the plot to find the rise and run, B - I can use the slope formula to calculate the velocity. Current score:	Notes:
	Notes:	
Notes:	4th Learning Goal: We are learning to analyze a graph. <u>Criteria</u> A - I can recognize that there are three ways to analyze a graph. - I can read it, - I can find the area, - I can find the slope. Current score:	Notes:
	Notes:	
Notes:	5th Learning Goal: We are learning the difference between uniform and non-uniform motion. <u>Criteria</u> A - I can distinguish between uniform and non-uniform motion by looking at the graph. B - I can describe the characteristics of uniform motion. C - I can describe the characteristics of non-uniform motion. Current score:	Notes:
	Notes:	

Notes:	6 th Learning Goal: We are learning about instantaneous velocity. <u>Criteria</u> A - I can describe instantaneous velocity and how it differs from velocity. B - I can explain that the slope of a displacement/time graph, at any time, represents the instantaneous velocity. Current score:	Notes:
	Notes:	
Additional comments: 		

* Competent (3) indicates that the student has competent knowledge and understanding of content and concepts. Appropriate application of related skills.

ACHIEVEMENT LEVEL SCALE

LEVEL	DESCRIPTION
4	In-depth knowledge and understanding of content and concepts. Able to extend the application of related skills.
3+	Competent +
3	Competent knowledge and understanding of content and concepts. Appropriate application of related skills.
2+	Developing +
2	Developing knowledge and understanding of content and concepts. Developing in application of the related skills.
1+	Limited +
1	Limited knowledge and understanding of content and concepts. Limited application of related skills.