

Quizbit Individual Rubric

	<u>Rubric item</u>	<u>Description</u>	<u>Points</u> (Circle One)
Completeness	Relevant physics	High level Uses relevant physics in solution attempt	6
		Mid level Some, but not all physical concepts used are relevant to the situation	4
		Low level Physical concepts are mentioned	2
	All parts attempted	High level All parts of problem have significant effort shown	6
		Mid level Some parts of problem have significant effort shown	4
		Low level Some parts of problem are started	2
Clarity of Communication	Legibility	High level All parts of solution are legible	6
		Mid level Some parts of solution are hard to read	4
		Low level Significant parts of solution are hard and/or impossible to read	2
	Format	High level Solution is highly organized and leads the reader through from start to finish in a logical, easy to follow manner	6
		Mid level Solution is mostly organized, but it is necessary to hunt for important pieces	4
		Low level Path of solution is hard to follow. Important pieces of solution are scattered and unlabeled.	2
Total:			

Quizbit 2 Group Rubric

	<u>Rubric item</u>		<u>Description</u>	<u>Points</u> (Circle One)	
Completeness	Relevant physics	High level	Uses relevant physics in solution attempt	6	
		Mid level	Some, but not all physical concepts used are relevant to the situation	4	
		Low level	Physical concepts are mentioned	2	
	All parts attempted	High level	All parts of problem have significant effort shown	6	
		Mid level	Some parts of problem have significant effort shown	4	
		Low level	Some parts of problem are started	2	
Clarity of Communication	Legibility	High level	All parts of solution are legible	6	
		Mid level	Some parts of solution are hard to read	4	
		Low level	Significant parts of solution are hard and/or impossible to read	2	
	Format	High level	Solution is highly organized and leads the reader through from start to finish in a logical, easy to follow manner	6	
		Mid level	Solution is mostly organized, but it is necessary to hunt for important pieces	4	
		Low level	Path of solution is hard to follow. Important pieces of solution are scattered and unlabeled.	2	
Correctness	Part (a)	High level	Physical representation is correct, and all needed elements are present including a defined axis, initial and final velocities for both stages, accelerations for both stages, and the distance between point A and the stopping point	4	
		Mid level	Physical representation is mostly correct, but may be missing one or more elements	3	
		Low level	A drawing is present that at least partially represents the problem statement	2	
	Part (b) - Stages	High level	Problem is split into two stages with distinct sets of kinematic equations for each stage	4	
		Low level	Some evidence of dividing into stages is present. i.e. two different accelerations (or times, or velocities) are used.	2	
	Part (b) - Kinematics	High level	Kinematics used correctly to first find the distance between point A and the stopping point, then to find the acceleration in stage 2, then to find the final velocity. Algebraic errors may be present, but use of kinematic ideas is correct.	8	
		Mid level	Kinematic ideas are used correctly to solve for at least one unknown quantity. Solution may be incorrect or incomplete, but kinematics are used correctly in at least one part of the problem.	5	
		Low level	Kinematic ideas are used	3	
	Part (b) - Final velocity	High level	Final speed is found to be 12.4 m/s	4	
		Low level	Final speed is found to be 12.4 with no units provided	2	
	Part (c)	High level	Sensemaking thoughts are complete, reasonable, and easy to follow. The two velocities are compared and a logical conclusion is made from the comparison.	4	
		Mid level	Sensemaking thoughts are mostly complete. Reader may need to make assumptions that are not explained by the solution.	3	
		Low level	Some comparison or sensemaking is present	2	
	Total:				