Quizbit Individual Rubric

	Rubric item		Description	Points (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

	Rubric item		Description	Points (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) - Physical representation	High level	A physical representation of the initial and final state of the system, including representations of the momentum or velocity.	4
		Low level	Physical representation is not complete, doesn't show vectors or other key missing pieces of information.	2
	Part (a) - Conservation of momentum	High level	Conservation of momentum is applied in the math representation and correct algebra is used to solve for the final velocity. The final answer is correct.	8
		Mid level	Same as high level, except some small mistake was made and the answer is not correct.	5
		Low level	Conservation of of momentum is discussed but no application is presented.	2
	Part (b) - Recoil time	High level	The time interval is correctly identified as the distance/speed and the conversion to years yields a correct answer - consistent with their answer to part (a).	6
		Mid level	Same as high level, except some small mistake was made and the answer is not correct.	4
		Low level	There is an attempt to calculate the distance, but it was using the wrong equation for time.	2
	Part (c) - Why no fly away	High level	One of the arguments presented in the solutions is provided in detail.	6
		Mid level	One of the arguments presented in the solutions is provided but the details are fuzzy and incomplete.	4
		Low level	An alternative argument with incorrect physics is presented.	2
			Total:	