

Quizbit Rubric | Thermo | Energy and Phase Change

	<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	Physical Representation	High level	Image included that links variables used to what those variables represent.	4
		Low level	A sketch is included.	2
	Finding Rotational Energy	High level	Rotational kinetic energy equation shown and used properly.	4
		Low level	Kinetic energy was used, but minor mistake (e.g. $1/2 m w^2$, etc...)	2
	Identifying the two ways that thermal energy will be added to the water	High level	Correctly identifies thermal energy is added to the water to change its temperature ($mc\Delta T$) and once the water reaches 100 C thermal energy is added and modeled with (mLv).	8
		Mid level	Identifies only one way that thermal energy is added.	5
		Low level	Thermal energy concepts are written.	2
	Rotational energy linked to thermal energy	High level	Uses rotational energy found and sets it equal to the thermal energy added to the water.	4
		Low level	Rotational energy and/or thermal energy were found, but not linked together.	2
	Algebra	High level	High level: correct algebra and answer.	4
		Mid level	Mid level: correct algebra but signs are incorrect.	3
		Low level	Low level: algebra was attempted.	2
Total:				