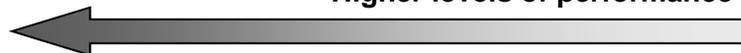


Build a Better Lightbulb Rubric

Higher levels of performance



Weight	Task	Best	Good	Needs improvement
10%	Teamwork	I worked well with my teammates and stayed focused on our assignment. I contributed helpful ideas by giving helpful feedback.	I worked with my teammates and gave feedback.	I did most of the work on my team, or I did not do enough work on my team, or I didn't listen to the ideas of others on my team.
40%	Energy transfers and transformations	I clearly and accurately did the following: <ul style="list-style-type: none"> • Illustrated energy transfers and transformations in my lightbulb system • Described the energy transfers and transformations in the caption • Included heat, light, and electrical energy details to my caption • Related conservation of energy to my descriptions of where the energy comes from and where it goes in my system 	I clearly and accurately met 3 of the 4 features related to energy transfers and transformations, or I met all of these features and had only minor errors.	My illustrations, descriptions, and explanations had many errors or were not clear.
15%	Investigation design	I included the following in my investigation design: <ul style="list-style-type: none"> • A clear procedure • A fair test • Safety considerations • An organized way to record and keep track of all data 	I included 3 of the 4 features in my investigation design, or I met all of these features and had only minor errors.	My investigation design was incomplete, had many errors, or both. I had 2 or fewer of the features.
35%	Scientific explanation	I included a claim, evidence, and reasoning in my scientific explanation. I connected my evidence and reasoning with scientific principles from this unit.	I included claim, evidence, and reasoning in my scientific explanation. But I had errors when using a scientific principle in my reasoning, or I did not include a scientific principle in my reasoning.	My explanation did not include a claim, evidence, or reasoning. I did not make connections with scientific principles.