

## Complex Energy – Transformation Device Rubric

	Level 4	Level 3	Level 2	Level 1
<b>Knowledge and Understanding</b>	Energy transformations are accurately labelled and well described. Energy transformation equation is complete and quantitative analysis is accurate.	Energy transformations are accurately labelled. Energy transformation equation is complete and quantitative analysis is mostly accurate.	Energy transformations are mostly labelled. Energy transformation equation is mostly complete and quantitative analysis is somewhat accurate.	Energy transformations are mostly labelled. An energy transformation equation is attempted and quantitative analysis has major errors.
<b>Application</b>	The device uses 4 or more energy transformations to perform a task. Energy transformations are accurately labelled and described.	The device uses 4 energy transformations to perform a task. Energy transformations are labelled and described.	The device uses 3 or 4 energy transformations to perform a task. Energy transformations are labelled.	The device uses some energy transformations to perform a task. Most energy transformations are labelled.
<b>Thinking and Investigation</b>	Device makes innovative use of energy transformations to perform a task. Most and least efficient stages are identified accurately and legitimate reasons given.	Device makes good use of energy transformations to perform a task. Most and least efficient stages are identified and reasons given.	Device makes use of energy transformations to perform a task. Most and least efficient stages are identified.	Device makes use of energy transformations. Most and least efficient stages are identified, for the most part.
<b>Communication</b>	No spelling, punctuation or grammar errors or very few mistakes presented.	Minor errors in spelling, grammar and punctuation.	Somewhat considerable errors in spelling, grammar and punctuation.	Significant errors in spelling, grammar and punctuation.