

**Short Essay 1 – Energy in a Roller Coaster *It's a Wild Ride* ← example 2019-2020**

<b>First Draft</b>	Completed/ shared online, Google Classroom <b>Dec. 6th</b> Please note - Mr. Burns has detailed records.	2pts	/
<b>Final Draft</b>	Shared and submitted by Google Classroom <b>Dec. 13th</b> Utilized Google Classroom as instructed.	2pts	/
<b>Title</b>	Essay clearly has a title as instructed	1pt	/
<b>(Introduction )</b>	3-5 sentences, theme introduced Paragraph 1	2pts	/
<b>Potential Energy</b>	Define, relate, elaborate 3-5 sent. Paragraph 2	3pts	/
<b>Kinetic Energy</b>	Define, relate, elaborate 3-5 sent. Paragraph 3	3pts	/
<b>Thermal Energy (Friction)</b>	Define, relate, elaborate 3-5 sent. Paragraph 4	3pts	/
<b>Law of Conservation of Energy</b>	Define, relate, elaborate 3-5 sent. Paragraph 5	3pts	/
<b>(Conclusion)</b>	3-5 sentences Paragraph 6	2pts	/
<b>Mechanics - grammar / sentence structure, etc.</b>	Intro, PE, KE, Thermal, LoCoE, Conclusion	5pts	/
<b>Format</b>	Follows essay structure and model as instructed. Theme apparent and consistent.	2pts	/
<b>Lab Participation</b>	Model students receive full credit here! Please note - Mr. Burns keeps detailed records. Staying seated during essay time, not playing video games during essay time. Utilizing class time, productively and cooperatively while not disturbing others trying to do so results in points easily obtained here or simply forfeited.	5pts	/
<b>Late</b>	If necessary, note penalty here.		/
	<b>Total</b>	<b>33pts</b>	

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Writing Assignment Details –Part 1 of your Final Authentic Assessment in this course is as follows.

### Energy in a Roller Coaster

Your challenge - How to build, construct and engineer a faster roller coaster with regard to energy? Alternatively, you may select to discuss how to design safer coasters, themed coasters, more exhilarating coasters, etcetera... or, alternatively you may compose your essay from the lens of a narrative. This would describe your account of riding a coaster. Be sure to address the paragraph prompts below.

Paragraphs structure: Your essay must contain these four paragraphs (minimum).

- 1- Potential Energy – What is the main idea? How does it relate to a roller coaster? 3 sent. minimum
- 2- Kinetic Energy – What is the main idea? How does it relate to a roller coaster? 3 sent. minimum
- 3- Thermal Energy & Friction – What are they? How do they relate to a roller coaster? 3 sent. minimum
- 4- L.o.C.o.E – What is it? How does it relate to a roller coaster? 3 sent. minimum

Does each paragraph: define, relate and then elaborate on the topic?

Does each of your paragraphs address the challenge questions?

Does your essay have an introduction?

Does your essay have a conclusion?

Does your essay have a title?

Is your theme concise, consistent and clear throughout?

Does it have typos, grammatical errors, proper sentence structure?

Most importantly, does it articulate and present all the relevant science concepts, adequately and tangibly?