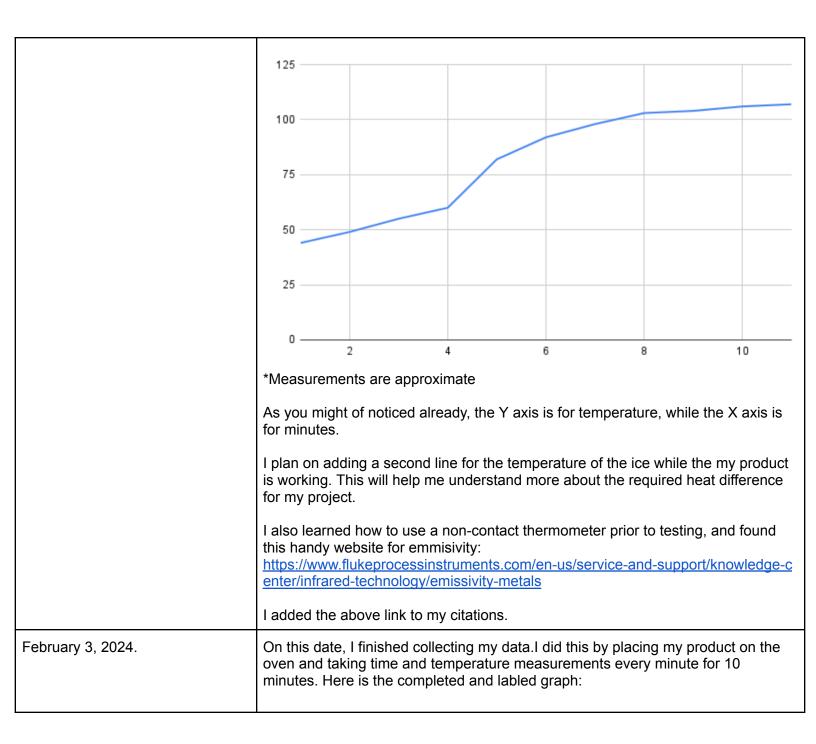
Name	Adam Bouissoukrane	
Grade	Grade Eight	
Project Title	Capturing and Converting Lost Heat to Generate Electricity	

Date	Information / Data / Accomplishments
January 17, 2024	Today, I decided on this project. In the process, I delved into the topic of pollution and learned about the scientific method. This project has the potential to contribute to the fight against global warming.
	Part 1: Starting my Project
	On this date, I decided my project topic was to harness lost heat and convert it into electricity. I will do this using Seebeck generators and other components. Below is my objective:
	I will design and create a system (prototype) to convert lost heat into usable electricity/energy. I aim to charge a phone or some similar device.
	My goal is as follows:
	I will design, develop, create, and test a prototype product that can effectively capture lost heat and convert it into electricity. My objective is to harness the heat or exhaust from devices that emit significant amounts of (wasted) heat into their surroundings, to charge a phone or other electronic devices.
	Part 2: Research and the Problem
	Also on this date, I finished all my research about my project components and problem. See the CYSF platform for more.
	Part 4: Planning My Project:
	On this date, I set out to make my prototype/product. I chose a device that emitted excess heat while operating: a small toaster oven.
January 18, 2024	

	Intend to make it so the final product can be used for any wasted heat source. The oven roof was very close to the heating element, making it just the thing I needed. Today, I began to make my project's prototype, and I added the steps on how I made it on the CYSF platform
January 19, 2024	On this date, I tested my prototype to find it did not work. I concluded that it hadn't worked because the generators were not being heated enough (heat was escaping in the gap between the generators and the oven roof). I am now working on a prototype that will conduct heat more efficiently for better results.
January 22, 2024	On this date, I completed my latest prototype's concept/blueprint:

I also recorded and photographed all the steps to make my innovation on my CYSF platform (in section "Method"). I also planned out how I will test out my project. I will measure the temperature of the oven roof, while testing the temperature of the ice, to see what the minimum temperature gradient is need for my project to work.
On this date, I purchased measuring instruments for the analysis stage of my project. I want to test how the temperature gradient is related to the energy output. Order placed, thanks. Confirmation will be sent to your email. Shipping to Adam Bouissoukrane,
Tomorrow, Jan. 29 Estimated delivery Review or edit your recent orders >
I purchased a USB voltmeter/amp meter to measure the output of my product, and a temperature gun to measure the temperatures I need. My project is nearing its concluding stages, and I am now starting to plan my
trifold.
On this date, my thermometer arrived from Amazon. I also purchased my trifold today. Now, alongside finishing my project's content as a whole, I am converting my project content into pages I can put straight onto my trifold.
I ended up not using the USB Volt/ampmeter as my DC/DC boost controller chip outputted ~5v consistently. Also on this date, I recorded the temperature of the oven over 10 minutes. Here is a graph of my findings:



	Oven Temp. 👝 👝 Ice Temp.			
	120			
	100			
	elsius)			
	O e0			
	40 00 08 08			
	-20 2 4 6 8 10			
	Time (Minutes)			
	 []: Oven Preheating []: Product is placed on the oven 			
	Image: Product is functioning			
	From this graph, I deducted that the minimum temperature gradient for my project, being where the 2 lines are closest, is a 100-degree difference (8 th minute).			
	I added all this information to my CYSF platform.			
	I also added information on the concept and working principle of			
	non-contact/infrared thermometers onto my CYSF platform. I also did a bit about emissivity and its impact on temperature readings.			
Feb. 4, 2024	Today I received feedback from my teacher, Mrs. Behairy, and polished up my content (grammar and visual fixes).			
Feb. 5, 2024	Today, I worked on the first draft of my conclusion. I wrote about how this journey started and how it ended on an optimistic note, hoping that one day this project can inspire others to build upon it or find their own intuitive ways to conquer the world's problems.			
Feb. 7, 2024	As I near the project deadline, I am preparing how I will design my trifold.			
Feb. 9, 2024	I have completed my project and also created a digital version using Prezi as preparation for my digital presentation.			

	PROBLEM	CAPTURING AND CONVERTING LOST HEAT INTO ENERGY		ANALYSIS	
			<section-header></section-header>		
Feb. 11, 2024	Today I recorded my digit platform for video). In tota maximum. I then downloa I also completed all the s	al, the video carr aded it and uploa	e in at 12 minute aded it to the CYS	s, a little over the	