

# Trouble Schools

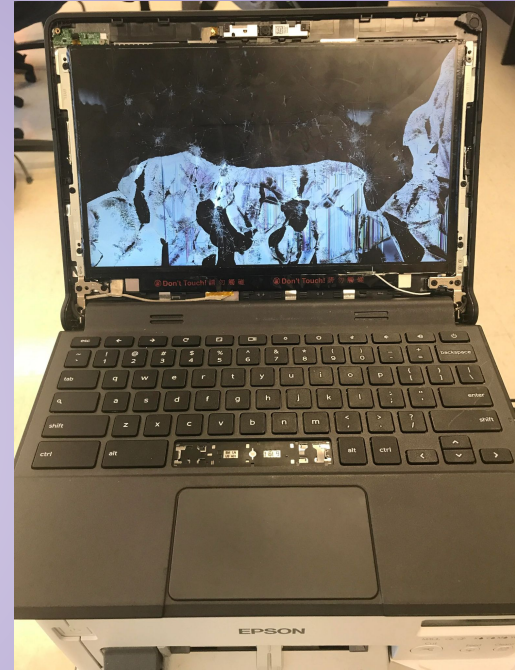


And how Claude will help find them and solutions.

# Trouble Schools, What are They?

Trouble schools are schools that cause extensive damage to technology, racking up tens if not hundreds of thousands in damage to devices used for educational reasons.

These devices are often windows (10) operating **laptops** or **chromebooks**. While we do not deploy a 1-to-1, we're still trying to make students/teachers responsible for broken devices; But are having a hard time locating said trouble schools/classrooms and provide solutions.



*An example of a broken 100e lenovo chromebook that has been smashed by a student.*

Basic chromebook, runs Chrome OS. Nothing special.

Touchscreen chromebook, runs Chrome OS. Glass screen, can fold to be tablet-like.

# Pricing of Devices

So, you know these chromebooks and laptops cost money- but how much do they actually cost?

There's two types of chromebooks we use for education: 100e, and 300e. 100e comes to be around \$75 usd. It's simple, nothing special- basic device running chrome OS. 300e nears \$100 usd. A 300e has a glass display due to its touch-screen capabilities, leading to more shattered and dangerous screens.

For our laptop, we use Lenovo ThinkPad L15 Gen 2s. These laptops have a large display and are running a windows 10 operating system (with group policy, adjusting settings, ect) and come to be roughly **\$1000** per device.

In comparison, 10 300e chromebooks is the same cost for one L15 laptop.



~\$75 usd



~\$100 usd

1080p display, wifi 6, AMD 5000 series processor, backlit keyboard, windows 10.

~\$1000 usd





# RFID/Boardtags

Our school district IT has a way of tracking student (and staff) devices via RFID and or boardtags. These tags all have a line of letters and numbers to make them unique- there are no duplicates.

An example of a BT and S/N →

1	Board Tag	Serial No.
2	41600	PF3EW4BD
3	41601	PF3EVXSJ
4	41602	PF3EWJDE
5	41603	PF3X6VWL
6	41604	PF3F40LT
7	41605	PF3E8NF3
8	41606	PF3F4RKB
9	41607	PF3F4RL2
10	41608	PF3GP9W6
11	41609	PF3FSX17
12	41610	PF3EWH9D

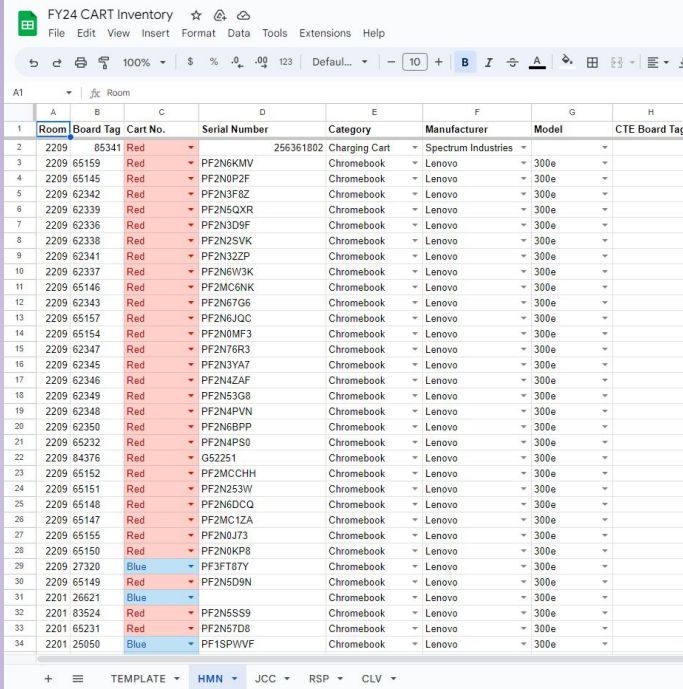
We use these tags for inventory, documentation, and device deployment (logistics). These tags can be and often are ripped off by students, which is also why we scan the S/N of a device in with the tag scan.

# But, why Claude?

To put it simply, I've tried this before with openAI's GPT-3.5 (turbo)- and it unfortunately didn't make the cut with its limitations. While I have attempted to get access to GPT-4, I've yet to get a response from openAI.

Another thing of Claude that is needed, especially for a project like this that'll require it- is its 100k context that I've read about. Most of the information I'll feed Claude for this project will be large and plenty- with the hopeful result that Claude will compact it down and give me a definite answer.

Of course, I know all AI has its limits. But hopefully with enough material to work off, Claude will be capable of siphoning through it and providing results.



The screenshot shows an Excel spreadsheet titled "FY24 CART Inventory". The spreadsheet has columns labeled A through H. Column A is "Room", B is "Board Tag", C is "Cart No.", D is "Serial Number", E is "Category", F is "Manufacturer", G is "Model", and H is "CTE Board Tag". The data rows show various items, mostly Chromebooks, with some "Charging Cart" items. The "Cart No." column contains values like "Red", "Blue", and "Orange". The "Manufacturer" column lists "Spectrum Industries" and "Lenovo". The "Model" column lists various model numbers like "300e", "300f", "300g", etc. The "CTE Board Tag" column is mostly empty.

	A	B	C	D	E	F	G	H
1	Room	Board Tag	Cart No.	Serial Number	Category	Manufacturer	Model	CTE Board Tag
2	2209	85341	Red	256361802	Charging Cart	Spectrum Industries		
3	2209	65159	Red	PF2N6KVV	Chromebook	Lenovo	300e	
4	2209	65145	Red	PF2N0P2F	Chromebook	Lenovo	300e	
5	2209	62342	Red	PF2N3F8Z	Chromebook	Lenovo	300e	
6	2209	62339	Red	PF2N5QXR	Chromebook	Lenovo	300e	
7	2209	62336	Red	PF2N3D9F	Chromebook	Lenovo	300e	
8	2209	62338	Red	PF2N2SVK	Chromebook	Lenovo	300e	
9	2209	62341	Red	PF2N322P	Chromebook	Lenovo	300e	
10	2209	62337	Red	PF2N6W3K	Chromebook	Lenovo	300e	
11	2209	65146	Red	PF2MC6NK	Chromebook	Lenovo	300e	
12	2209	62343	Red	PF2N67G6	Chromebook	Lenovo	300e	
13	2209	65157	Red	PF2N6JQC	Chromebook	Lenovo	300e	
14	2209	65154	Red	PF2N0MF3	Chromebook	Lenovo	300e	
15	2209	62347	Red	PF2N76R3	Chromebook	Lenovo	300e	
16	2209	62345	Red	PF2N3YA7	Chromebook	Lenovo	300e	
17	2209	62346	Red	PF2N4ZAF	Chromebook	Lenovo	300e	
18	2209	62349	Red	PF2N53G8	Chromebook	Lenovo	300e	
19	2209	62348	Red	PF2N4PVN	Chromebook	Lenovo	300e	
20	2209	62350	Red	PF2N6BPP	Chromebook	Lenovo	300e	
21	2209	65232	Red	PF2N4PS0	Chromebook	Lenovo	300e	
22	2209	84376	Red	G52251	Chromebook	Lenovo	300e	
23	2209	65152	Red	PF2MCCHH	Chromebook	Lenovo	300e	
24	2209	65151	Red	PF2N253W	Chromebook	Lenovo	300e	
25	2209	65148	Red	PF2N6DCQ	Chromebook	Lenovo	300e	
26	2209	65147	Red	PF2MC1ZA	Chromebook	Lenovo	300e	
27	2209	65155	Red	PF2N0J73	Chromebook	Lenovo	300e	
28	2209	65150	Red	PF2N0K98	Chromebook	Lenovo	300e	
29	2209	27320	Blue	PF3FT87Y	Chromebook	Lenovo	300e	
30	2209	65149	Red	PF2N5D9N	Chromebook	Lenovo	300e	
31	2201	26621	Blue		Chromebook	Lenovo	300e	
32	2201	83524	Red	PF2N5SS9	Chromebook	Lenovo	300e	
33	2201	65231	Red	PF2N5TDB	Chromebook	Lenovo	300e	
34	2201	25050	Blue	PF1SPWVF	Chromebook	Lenovo	300e	

*A small snippet of a old inventory spreadsheet. We plan to take inventory soon due to the school year ending.*

# Final Statements

While it's unlikely that my boss/supervisor would allow an artificial intelligence to make solutions/decisions for us, I am hoping that if Claude is capable of providing results- that I may put it to further use in the field.

As a school district information and technology technician, I can find much later uses for Claude.. Of course, I will be paying out of my own pocket to test Claude and see if they're capable. If Claude is indeed capable in the end, I may try to present its usage to a higher up and get it integrated into our yearly processes.

But this is a far fetched wish, I'd have to present this to REALLY important people and show that Claude is capable as an artificial intelligence assistant. But one can hope- and I hope that I'll be granted access (even if for a short while) to put Claude's abilities to the test.