S.T.E.M PROJECT

PARTS OF A LAPTOP

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STEM CHALLENGE

First of all, in STEM (Science, Technology, Engineering and Mathematics) we explored the inner workings of an electronic device by breaking apart a laptop. The laptop was a Think Pad laptop that we separated. We succeeded by the way. We chose this electronic device because we are very interested in the components that make a laptop. We eventually would like to create and build our own laptop. Hence, this was the first step in our long journey. Laptops have a bunch of parts that we didn't even know existed. Don't worry, we wore safety glasses and there were no threats while we opened, broke apart and identified the components of the laptop. Nothing got in our way as we separated the ThinkPad laptop. The batteries or any power source weren't on while we did our job. Also, we had permission to do this. It was genuinely interesting seeing all the parts, and the order, and steps were as hard as taking care of a canine. This experience will blow your mind!

Furthermore, the laptop we separated had a ton of components inside. One of them was a hardware, then a battery (2-3). Afterwards, came a motherboard, a speaker, a fan, and much more. We also counted fifty-one to fifty-four screws that were unscrewed. (There were too many to keep track of). There were as many parts as the human population on Earth (Currently seven point six billion people)! You might want to pay much attention. Since, you need to screw this information to the inside of your brain!

Third of all, the significant uses of these items were remarkably interesting. The battery gives power to the laptop. The fan cools down the laptop or motherboard. The motherboard is the main and most important part of the laptop. The motherboard is the brain of the laptop. The

hardware was to process many things. There was the storage called the hard drive, this is where data is stored for long term. The nails kept everything together and intact. And the speakers made sound energy so you could hear and enjoy your time on the laptop. And a gigantic amount more! These parts and utilities are as interesting as learning about galaxies, planets, and outer space!

Finally, these were the many steps: We unscrewed the nails under the laptop to make it extremely loose and take a look inside the laptop, THEN we took out the hardware, the battery etc. After that, we took out the keyboard and the mouse. Afterwards, we took out the monitor and made our way to the mother board. We then continued by removing the mother board and kept utilizing the screwdriver. Then we took out the fan and wiped off the paste from the fan that cools down the motherboard. By the way, we didn't mention all the nails and screws we used and the screwdriver to unscrew. These steps were as complicated as having a job. It sure took time and patience. We learned that there was more stuff going on inside a laptop than we ever could imagine.

To wrap it all up, it was awfully/terribly hard trying to disassemble a Think Pad laptop. It had an awful lot of parts with many different significant and important uses. Each part had a use that was necessary and needed. It took a while to disassemble it, but we learned to not underestimate anything. Ever.

The students taking off the screws that hold the laptop together.

Taking off the motherboard.

Removing the Fan.

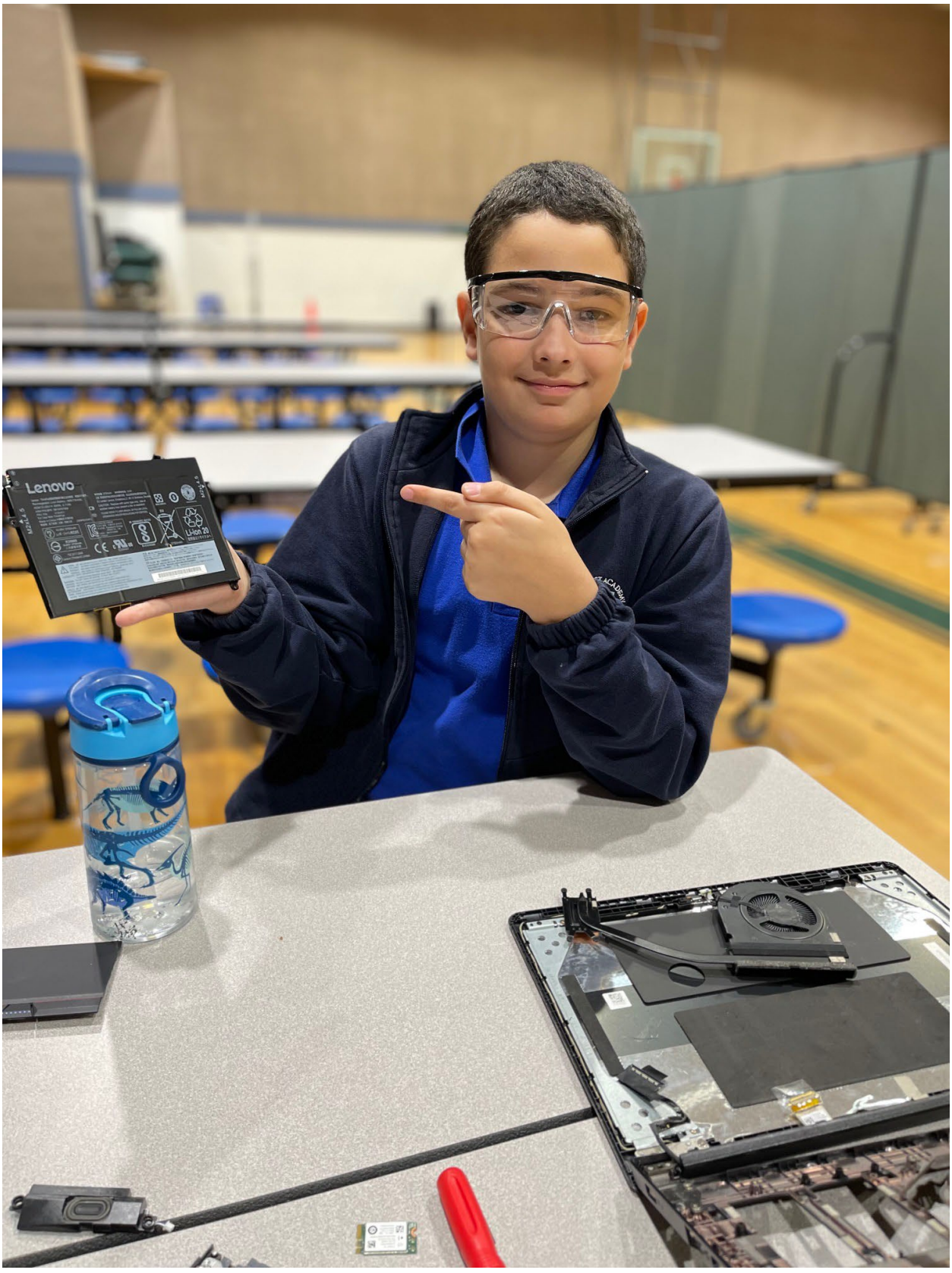

LENOVO


Lenovo
WD Black
WD
500GB

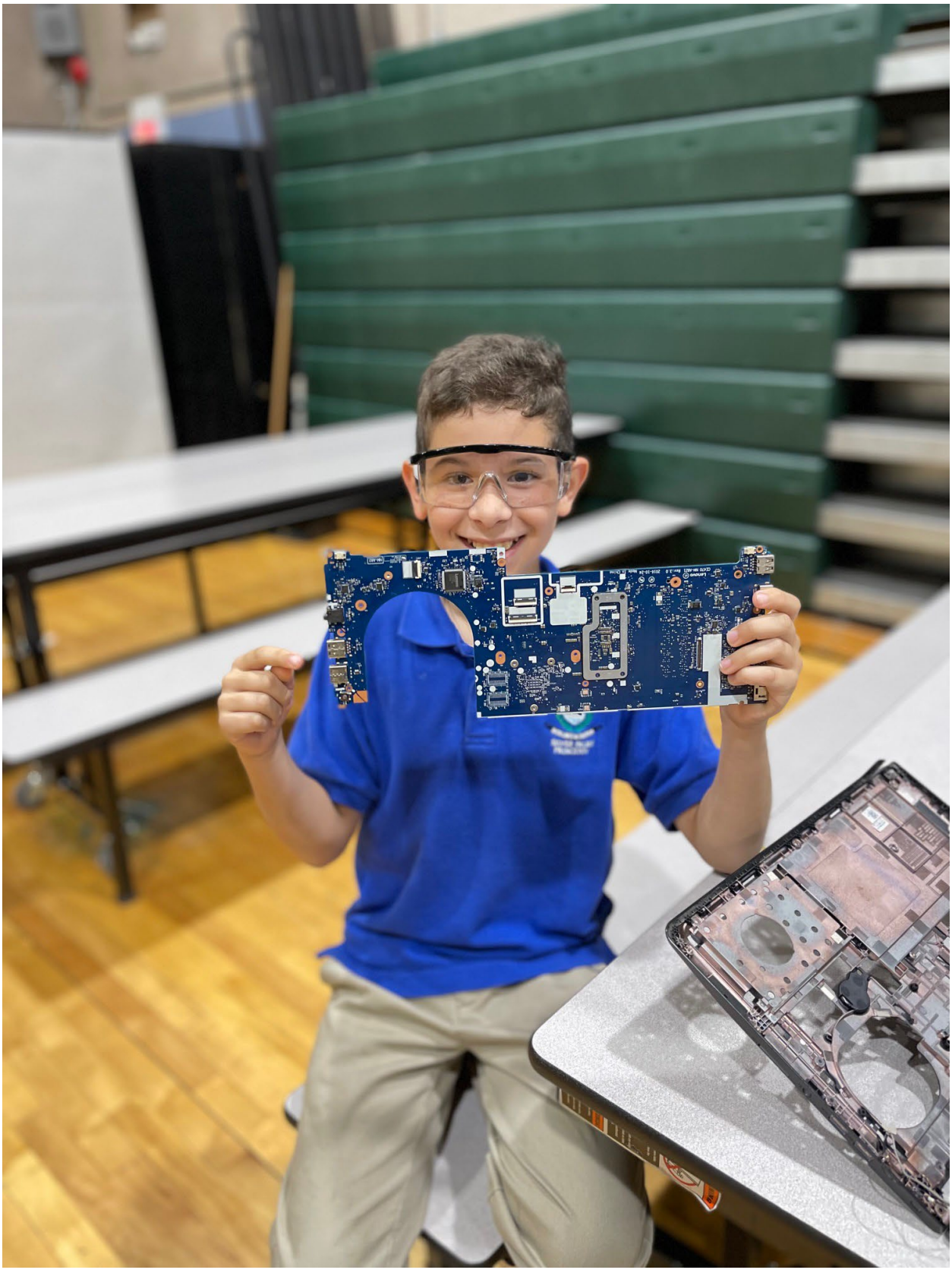

Lenovo
WD Black
500GB

Removing the Screen

Taking off the screws next to the CRE



The Battery



The Motherboard