

Texas Instrument Dissection Challenge

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Introduction-about the keyboard- The electronic device we chose was the keyboard. We chose it because we thought it was interesting to take apart. We might find hard drives and little things that make the buttons work. We thought taking the top part of the keyboard was challenging because: Screws, Wires, A Circuit Board, Silicone. So it seemed like it was glued on. Some things we questions we thought of were: How does a keyboard work? Why does a keyboard have so many parts? How was the first keyboard made? What is a keyboard made out of? Who made the first keyboard? How did the first keyboard look like?

Summary of Chips and Components-

Some things that make up the keyboard are: Enter, Backspace, Delete, Function Keys, Letter keys, Shift, and the Spacebar. These keys are the most used keys on the keyboard. Some parts that we found on the keyboard were: The Circuit Board, Wires, Silicone, and Screws. Another thing we found was

that the silicone was on top of the metal board, which was under the keys to support the keys on the keyboard so they wouldn't fall out. Those are the components of a keyboard and how they are connected.

Parts of Keyboard research- Roles and What they are

Here are the definitions of the things we found:

WIRE: A slender, string-like piece or filament of relatively rigid or flexible metal. Used to connect the keyboard to the actual computer.

CIRCUIT BOARD: A thin, rigid board containing an electric circuit, also known as a motherboard. Used to tell the computer what keys they need to do on the monitor.

SILICONE: Polymers that include any inert, synthetic compound made up of repeating units of siloxane. Used in the keyboard to cover the circuit board/ To protect the circuit.

SCREWS: Little pieces of metal used to keep the bottom/back of the keyboard to the front. These are what they are and what they do.

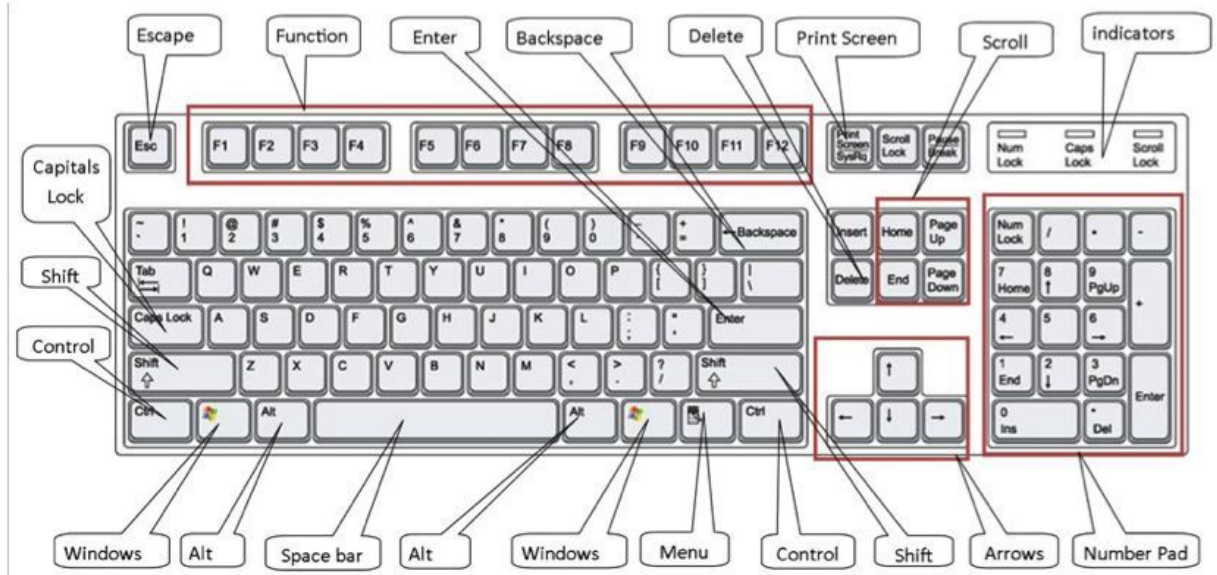


Image of keyboard parts we researched to find out what they were called.

Conclusion- During this challenge, I can say we all learned something interesting and valuable during this experiment. For example, I learned there is a layer of silicone to protect the circuit board. It was challenging but we learned a lot. The keyboard is made of lots of parts. Such as the following: Screws, Wires, A circuit board, and Silicone. NO Texas Instruments whatsoever! There is a hard outer layer with a the circuit board above and covered in silicone. Then, the separate keys are put on with wires and screws. We learned that the keys are all programmed to show a certain picture on the computer because each key is connected to the circuit board. We

also learned that a keyboard isn't made of as much as we thought. We learned A LOT!