



# *Our Global Challenge*

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Location: Miami, Florida

# *How we deconstructed the top part of the phone*

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This is what we did to get the screen of the phone.

- 1) We first unscrewed the nails that were in the phone
- 2) We scraped off the glue in the phone
- 3) Then we started observing the top internal pieces





Charging port

## *The Circuit Board*

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This part is the circuit of the phone. It has the charging port and the spot to plug in your headphones. This part can also be called "The Brain of The Phone".

# *The frame*

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This is the frame of the phone; It is where the screen, the speaker, and the buttons are. It helps the phone stay organized.



# *The buttons of the phone*

You press the buttons, and you get numbers/letters. You could also answer or hang up if a call is received.



*This is the first half of the case*

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This is what you flip up to use the phone.



# *This is the bottom of the phone and the battery*

The bottom half of the phone would be where the battery is placed. How batteries work are electricity resets a chemical reaction in the battery. The battery is how the phone will get its power.

Once charged, batteries can produce electricity by driving electrons through a circuit. In this case, the flip phone. The anode (the negative end of a battery) will continue to do so until all of the electrons have traveled back to the battery, or a built-in switch disconnects the battery.



# *The summary*

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We chose the flip phone because we thought it would be easy to take apart, also Stacia had a box of them laying around. This impacted our education by teaching us new things like, how an old flip phone is built, what the pieces do, what their jobs are, and how the battery powers a phone. We really enjoyed doing this challenge.

# *Sources*

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We did a bit of research on how a battery charges a phone and how a battery works. Here are the sources used:

<https://www.theguardian.com/technology/2016/oct/10/samsung-how-batteries-work-smartphones-explode>

<https://versus.com/en/news/cell-phone-history> 2000-2002