

Batteries

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Problem

The problem with Lithium ion batteries is that they are toxic and can contaminate water supplies and ecosystems if they leach out of landfills and they are flammable and can explode easily if the battery gets damaged.

Research

- What's different in other types of batteries?

Alkaline, Nickel Metal Hydride (NiMH), lithium Ion and Nickel-Cadmium use different metals and electrolytes in the batteries which gives them different properties so they are suited for different context.

- How do batteries work?

When the electrons move from the cathode to the anode, they increase the chemicals potential energy.

- How do batteries store power?

Battery store power by using chemistry in the form of chemical potential. What's chemical potential you may ask, it's the energy stored in the chemical bonds of a substance.

Method

My method is to show and compare batteries so you will know what is better and any new batteries coming.

Conclusion

I will compare different types of batteries and will show which battery would be better.

Thank you

I would like to thank my mentor Paulina Herspiegel for guiding me and helping me with this.