

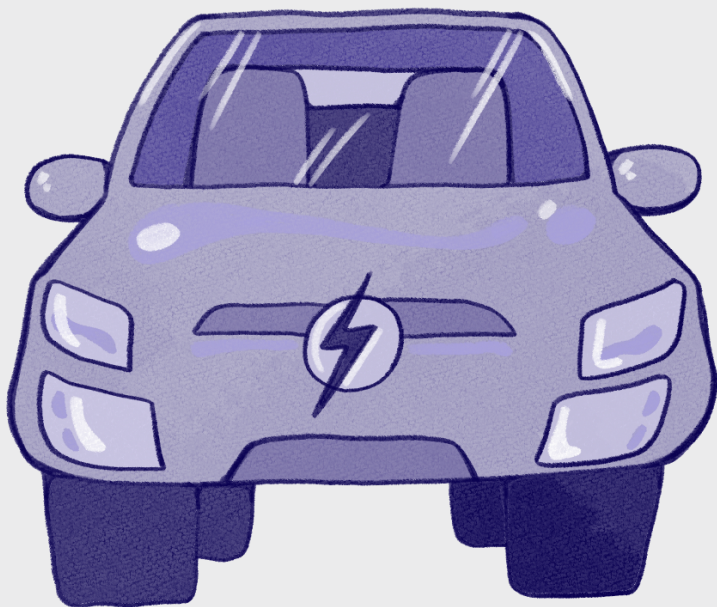
# Cobalt Free



Cobalt has very few reserves and faces unethical mining (the mistreatment of workers and land). Batteries researchers want to stop using cobalt due to these concerns.

**Create a battery without:**  
**Cobalt**

# Electric Car



In 2030, the sale of new petrol and diesel cars will be banned, so there is a lot of effort to create electric cars that can travel long distances.

**Create a battery with:**

**Capacity**



**Cyclability**



# Green Battery



A major issue facing battery technology is recycling. Batteries are complex which makes recycling and reusing materials difficult. They need to be disposed of and recycled separately.

**Create a battery with:**

**Sustainability**



# Phone

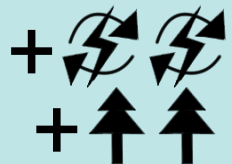


Mobile phones are a staple device to modern day life and are used to connect people around the globe.

**Create a battery with:**

**Cyclability**

**Sustainability**



# Sodium Battery

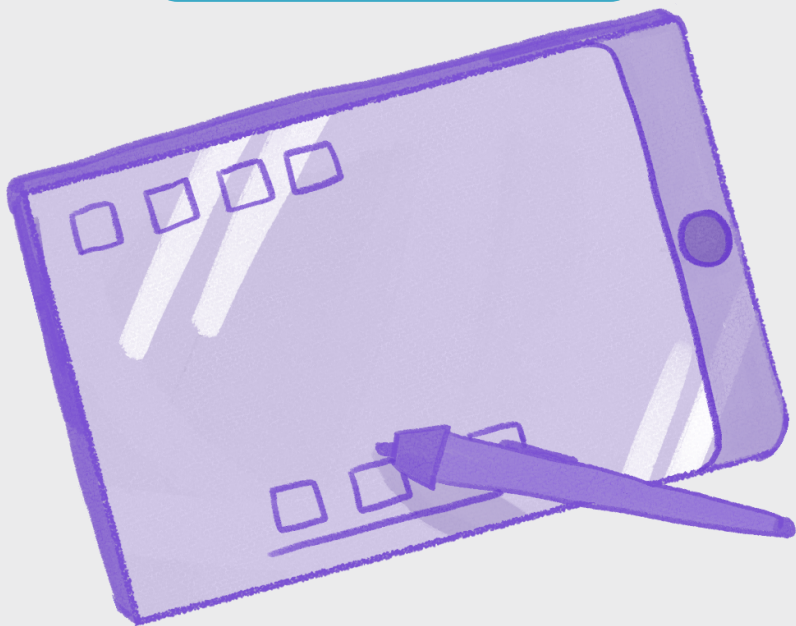


A possible alternative to lithium-ion batteries is sodium-ion batteries. Sodium is far more abundant than lithium.

**Create a battery with:**

**A Sodium Cathode**

# Tablet



Tablets are a popular digital device. Users want a tablet that has a long battery life, so it can run different programs for a long time. Another important feature is safety, since it is a household application.

**Create a battery with:**

**Cyclability**

**Safety**



## Affordable Battery



Batteries will need to become more affordable as the UK transitions to Net Zero carbon emissions.

This can be through cheaper manufacturing processes or improved selection of materials.

**Create a battery with:**

**Cost**

**– £ £**

## Children's Toy



Many children's toys have batteries inside of them. These need to be safe and sustainable to protect children and the environment.

**Create a battery with:**

**Sustainability**

**Safety**

