

**Hand crank technology**

There are lots of devices that use batteries to power them. Working with someone else, see if you can make a list of battery powered items:

|  |  |
| --- | --- |
| **1.** |  |
| **2.** |  |
| **3.** |  |
| **4.** |  |
| **5.** |  |
| **6.** |  |

This is a picture of hand crank torches:

When you squeeze or turn the handle round it charges up a little battery, which then runs the torch for a few minutes. The more you crank, the more charged up the battery becomes and the longer the bulb lights for.

**Choose four of your ideas that would work using a hand crank to charge up a little battery. Draw and label them in the boxes here:**

What are the advantages and disadvantages of hand crank technology?

|  |  |
| --- | --- |
| **Advantages** | **Disadvantages** |
|  |  |