What is a cutaway diagram?

A cutaway diagram shows us “hidden” parts of a subject by removing part of its surface.

The key features are,

- **Cutaway**: an area of the surface has been removed so we can see inside

- **Labels and arrows**: to name parts of the subject

- **Detail**: to show a part enlarged, in order to see very small but important details.
Draw a cutaway diagram of the torch you explored in your scrapbook/iPad.
Now that you have finished, let’s share some examples of a cutaway diagram of a torch from the internet.

Other student examples can be viewed at...
https://technotips.edublogs.org/2014/03/04/its-electrifying/
32.134.1 Electric torch (flashlight)

- light bulb
- glass insulator
- metal reflector cone
- bulbholder

Strip of metal completes switch when switch is turned on

- switch
- cardboard cover
- zinc case (negative, -)
- batteries
- carbon rod (positive, +)
- chemical paste
- metal torch case
- metal spring

Conventional direction of flow of current (+ to -)
Take a photo of your cutaway diagram. Insert into Explain Everything
Explain your cutaway diagram. Record your voice and/or type.

• I think that......The reason I think this is because....

• I have labelled......and shown....

• Etc
Together

• Let’s brainstorm the role of electrical energy in our lives.

• record lists of the battery operated devices that we use at school, at home and in the community.
What are the?

• Advantages of batteries and battery operated devices?

• Disadvantages?