Electricity safety at home

- Find the fuse box of your house or apartment. You should be able to find it within the area you call home.
- Take a photo of its contents, but leave it be otherwise.
 - If you happen to touch a button, you might disable your fridge or your heating system, so be extra careful.
- If it is locked and if your guardians are busy and cannot open it for you, take a photo of the fuse box door.
- If you get to take a look at the insides, answer the following questions.
- 1. Does the fuse box contain fuses (mushroom-like cylinders) or residual current circuit breakers (switches)?
- 2. Can you find the security plate of the fuse box (see the attachment arvokilpi)?
 - If so, does it state the rated current (nimellisvirta) and the rated voltage (nimellisjännite)?
 - In my example, these are 40 A and 400 V.
 - If so, does it state the <u>IP Code</u>?
 - The code IP20 in my example means:
 - 2 = Protected against fingers or similar objects
 - 0 = No water protection.

The life and times of a charger

Note the pun.

Find a charger of your choice, and detach the part that you usually insert in a socket.

- 3. Values of quantities.
 - \circ Find the INPUT voltage? U =
 - \circ Find the OUTPUT voltage? U =
- 4. Find the power and frequancy of the charger.
- 5. Find the level of protection stated by the safety symbols. As these categories are not mutually exclusive, you may find several among these, or none in the case of a hazardous charger.
 - o yes/no example
 - yes/no suojaeristetty (two squares)
 - yes/no suojamaadoitettu (a flipped T)
 - o yes/no tippuvedenpitävä (one droplet)
 - yes/no vedenpitävä (two droplets)
 - yes/no sateenpitävä (a droplet in a square)
- 6. Find the IP Code and its meaning.