**STATION 5: WHY IS IT IMPORTANT TO SAVE HEAT? (Fabian)**

The heat is generated in a heat generator, usually in something like a boiler. If oil, gas or coal is used, it produces a lot of CO² emmisions. The heated water is pumped in the heating circuit. The water’s temperature is usually in between 45-90°C. The water flows throuh the radiator, so a part of the temperature can  get to the air, but it‘s not a direct heat radiation like a sunbeam. Here, the convection happens through another medium, in this case the air. The cold air goes back to the boiler and the circuit starts anew.

How you should adjust your thermostatic valve?

Just google that, too lazy to translate all the wikipedia stuff.

How much heat gets spread in the classroom?

Give your students some thermometers and let them measure the temperature at various places, e.g. the floor or the windows. Maybe let them think about how the air flows within the room and let them make a map where the heat spreads the most. Do the same thing with an open window.

How to ventilate properly!

* Close the thermostatic valve completely
* Open all windows and the door until the whole air has exchanged
* Close everything again
* Open the thermostatic valve to 3

If the valves are not open or closable, use something to shield the radiators while the door and windows are open. Make sure you don’t open a window that is near the ceiling while the radiators are still not shielded. That does nothing excapt waste money. Also explain that most of the resources used for heating our homes are irreplaceable.

The next section is about why you should save a lot of electricity. List facts about electricity and for what it is used the most (e.g. Light, Computers, heating, etc.).