We chose to present some physics experiments that are taking place in the presence of some heat(the expansion of different metals).

For the first one, we need a stand with a tray filled with cotton wool dipped in some spirt and two bars(one made of iron and one made of aluminium)that are going to be placed above the tray. We fire the cotton wool and shortly, we notice that the bar that is placed above the tray is starting to climb. The aluminium bar is climbing faster than the iron one, because aluminium dilates faster than iron.

For the second one, we need a stand on which we hang a ball(made of copper or aluminium), a spirt lamp that is going to be placed under the ball, a lighter, and a circle made of metal. At first, we notice that the balls can pass through the circle. We light the lamp using the lighter. After some time, we notice that the ball can’t pass through the circle anymore.

For the third experiment, we built a robot whose engine runs on salty water.