Learning about Combustion

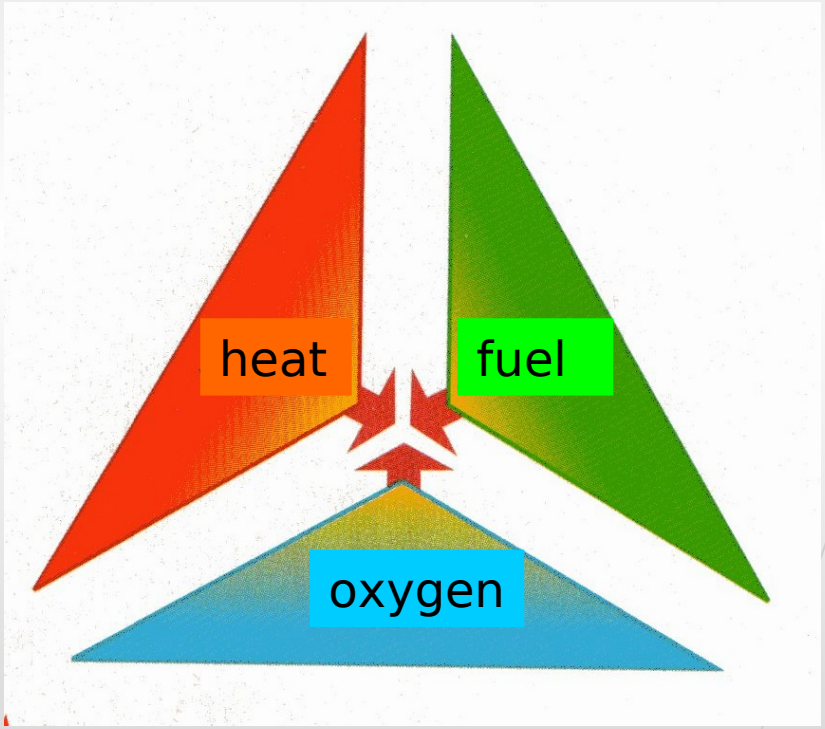
with the Seventh Grade (7A) in Mattlidens Skola

By the STS-method

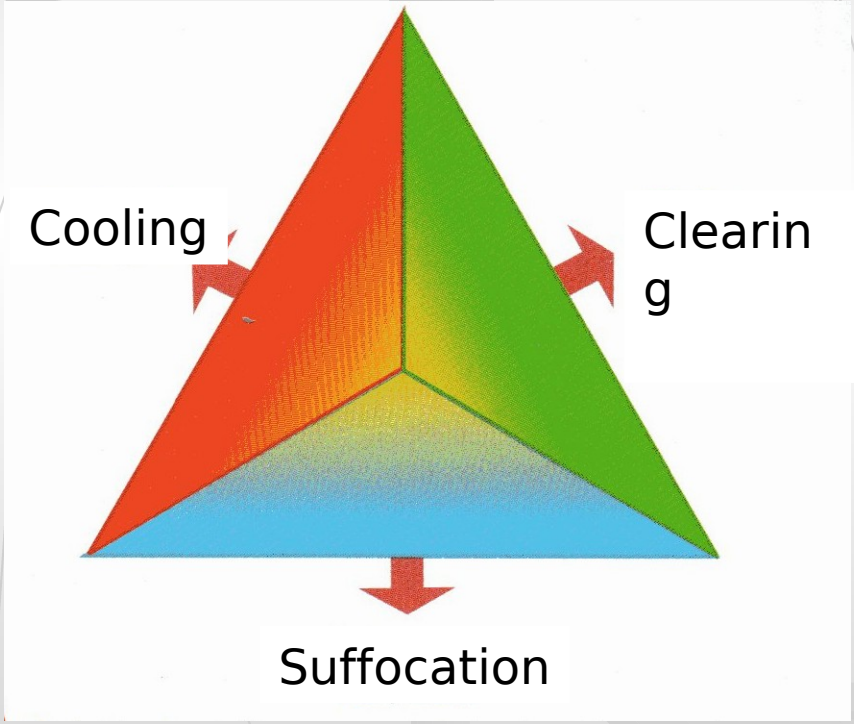
(Science, Technology and Society)

Combustion

What is needed for combustion?

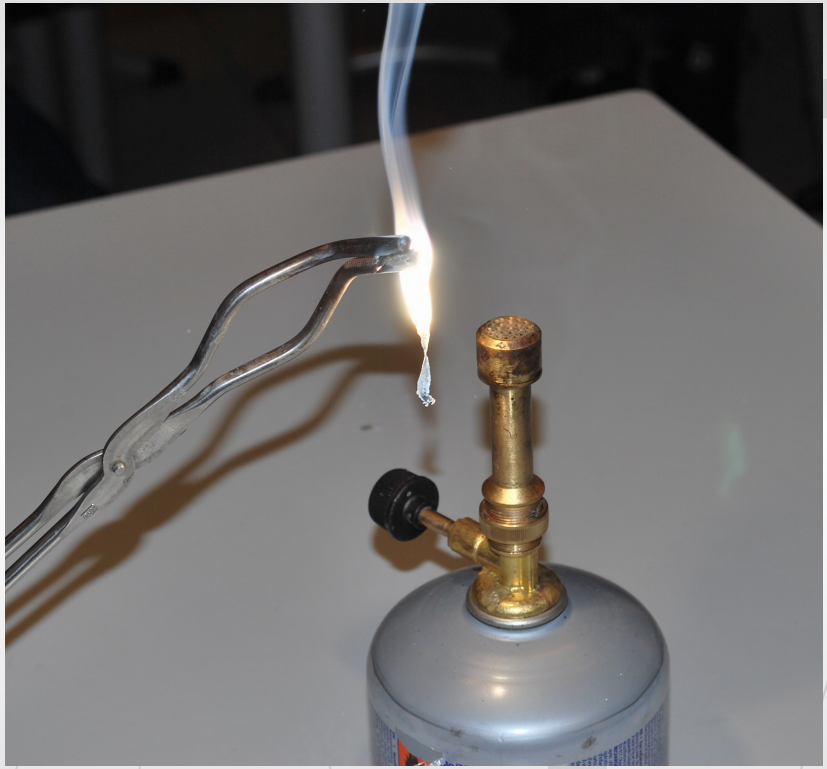


How do you put out a fire?



Combustion

What happens when you burn a metal?



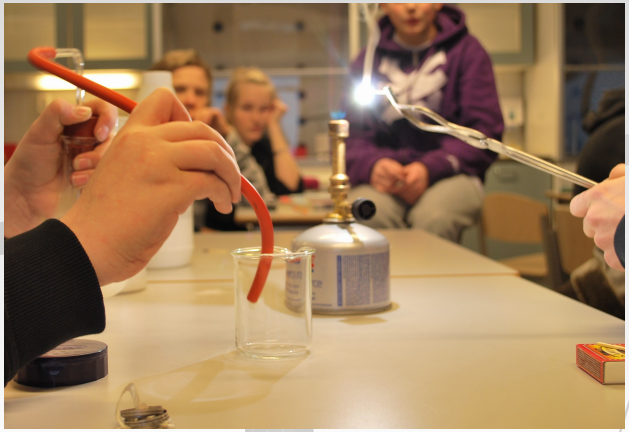
We did our experiment with magnesium.

We started with a grey metal, a magnesium ribbon…

… we got something that looked like white-grey ash…..
magnesium<u>oxide</u>!

Combustion

Our next experimnet was to put burning magnesium in carbon dioxide.



Carbon dioxide we produced by adding acetic acid into baking soda.

Wow,what a flame! We got some black material in the beaker. What is that?

Yes it's carbon.

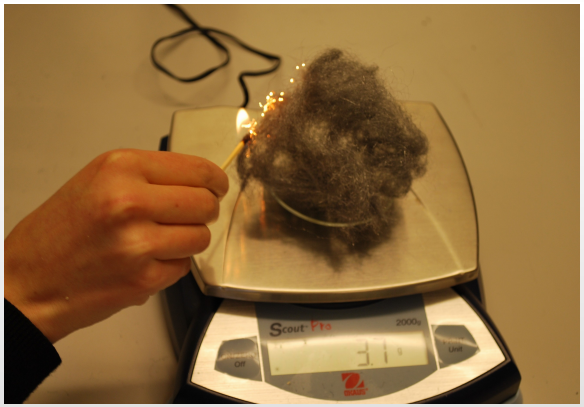
Combustion

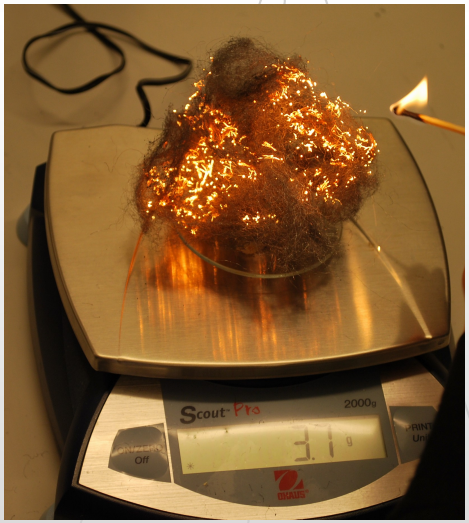
We took another metal, steel wool.

Put it on fire!

What happened? Look at the scale!

Okay, again a chemical reaction. Our product is ferric oxide.





So, we found out that the product from combustion will be an oxide!

Combustion

Why do you have to be so careful with open fire on a gas station?

In our laboratory class we observed that you don't even have to get very close to the gasoline with your match when the fire will flame up.

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ÅK 1-9

Combustion

We went to an exihibition in Tapiola.

The funniest thing was to dress oneself to a fireman.

The most interesting things were the old equipment and a video clip about how soon a fire will spread.

Combustion

Back in school we sorted out the geographic location of the emergency exchanges in our country…

… and where the local fire stations are located.

Combustion

Safety in the classroom is important too.
To know what to do and where to go in case of fire.