

Children aged 7 to 10 years Two-day workshop (8 hours total)

Day One: Small fire - big effect?

Fire needs air...

Can a candle pump water into a bottle? At the beginning of the workshop, an experiment introduces our little scientists to the power of a small flame: Fire consumes oxygen, the very oxygen we need to breathe ourselves; we risk suffocation in a fire! Now that they understand hazardous situations caused by fire and smoke, they learn how to handle them: How can we protect ourselves? When should we put out a fire and when not?



Just a candle?

From theory to practice: Having raised awareness of the risks of fire, they are ready to experiment with small flames. Each participant receives a kit to light and extinguish fire, including a metal tray, a water bucket and a fire blanket. We teach every single child how to light a candle, using a match or a lighter. That can be quite a challenge. Together we discuss their experiences. Gathering our experiences we will build and test our own fire extinguishers.

As a highlight of the first day we prepare threads soaked with paraffin and boards with a pattern of nails. We show the children how to wrap the threads along the nails to obtain pictures. Finally we light the threads, which now turn into fire pictures.



Day Two: Blaze and Bonfire

Fire and wind: How to judge a fire?

Using a safe experiment set-up by the team leaders, we demonstrate various fire risks: For example, we light the test object on one end and watch a small flame flare up and demonstrate that fire spreads. If we blow on the fire, we understand that the fire ignites other material more rapidly.

This makes us think about worst-case scenarios: How can I leave a room filled with fire and smoke? Who is going to help me in emergency situations? Role-playing teaches us to react in such situations.

Against this backdrop, the children are prepared to carry out experiments using their safety equipment and various combustibles like paper, card board and wood of different strength. Extinguishing fire and the safe removal of residues are part of the exercise.



Good Fire - bad fire: A great experience and a farewell party around the campfire.

During the workshop's concluding stage, we discuss what we have learnt about fire: By creating our own shadow theatre performances we reflect on people handling fire in good and bad ways –

Finally we will enjoy our well deserved roast bread sitting around a crackling campfire.

Learning aims:

- knowledge about inflammability of various materials
- practical and creative experience dealing with hazardous situations and fire
- self-assurance in a positive group atmosphere

Each participant will receive a visual documentation (video/ photograph) on his or her activities.