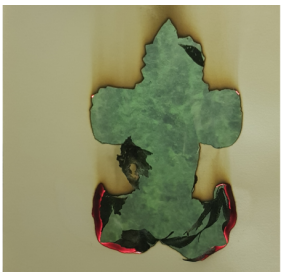


SUBMITTED BY
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ON
2024.03.06

★ ★ ★ ★ ★
Keine Stimmen

Letters or symbols in fire



If potassium nitrate solution is used to paint something onto the tissue paper and the tissue paper is dried, the letters or symbols slowly burn from the center to the edge after lighting. In this way, hidden things can be made visible.

Material

- Potassium nitrate or potassium nitrate (potassium nitrate) solution (available to order from pharmacies, possibly also from other sources such as butchers or others in small quantities)
- Lighter
- Glow sticks/lighter or match
- Paintbrush
- Blotting paper

Procedure

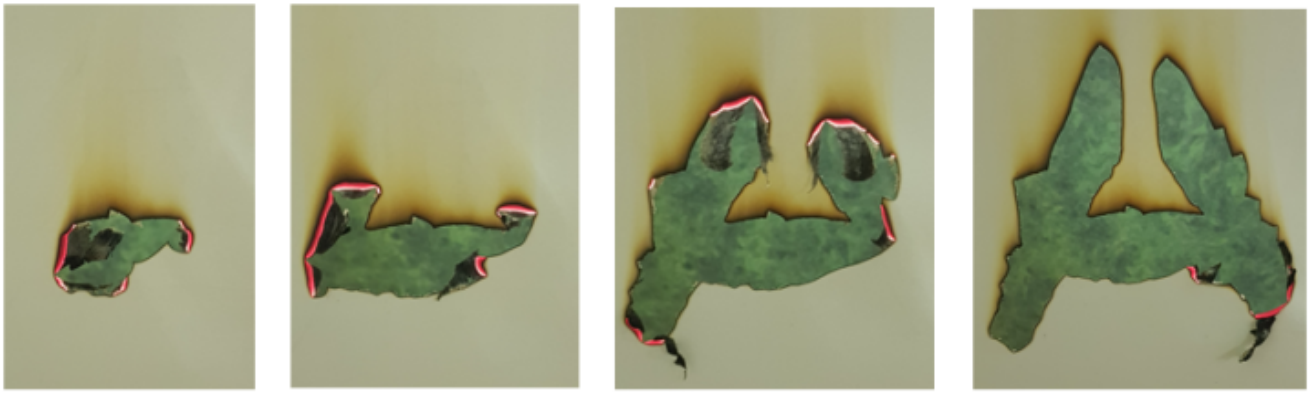
Caution: Do not burn in closed rooms

Beforehand without children or simply a few hours before the fire test:

1. Dissolve potassium nitrate in water (if not bought as a solution), use saturated solution with little sediment
2. Write on blotting paper with a brush and potassium nitrate solution. Depending on the quality of the blotting paper, it is best to first brush only one letter or symbol onto the sheet. If letters with an enclosure, e.g. o, a, b, R, are written in this way, the enclosure should be connected to the outside.
3. Make a small hole in each letter.
4. Leave the paper to dry for a few hours or better still overnight.

With the children:

5. Hold up the sheet for all to see. And use the glow stick or a match to light the paper near the holes.
6. Hold the paper firmly until the fire has spread through all the painted areas.



Biblical statement

Applicable to various statements. Examples:

- The symbol is a cross: the cross as the way to salvation
- The symbol is a heart: meaning of love (e.g. 1 Corinthians 13)
- The number 7: Biblical perfection, seven churches in Revelation, etc.

Keywords:

Hidden things become visible, Chemistry, Chemical experiments, Fire, Experiments

Credits:

Cover picture: Markus Sigrist
Game idea: With the kind permission of BESJ (Bund Evangelischer Schweizer Jungscharen), with slight modifications Markus Sigrist

Weitere Informationen

Categories
Technology and outdoor activities

Tags
Experiment
Chemistry
Artistic handicrafts
Cipher
Fire

Age
13–16 years
from the age of 16

Number of participants
1–20

Bible
This information is missing.

Terrain / surroundings
Meadow
Forest
City

Material
Almost effortless

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