

The use of fire

Introduction

Until recently, and even in the present age, fire was a very important element for living. What will it look like in the future with the use of fire? Fire was discovered several thousand years ago. It directly served as an important element for the people.

100 years ago

Unlike the human species, fire has existed since time immemorial. Even after man existed, it took several years for the two to cross paths and several more for man to learn to harness fire.

100 years ago, people used fire as a source of heat. As a method of preparing meals and many other options. People were dependent on it, which is why it was hard to imagine this time without it. Furthermore, the fire was used for the production of pottery and clay vessels. In addition, weapons could be forged with the help of fire.



1. Man making fire

Various studies show that use fire already for more than 1.5 million years. But the exciting question of an article, which seems to us more important, we would like to mention. The question: From when did people manage to start the fire itself?

Today

The fire allowed forests to be cleared and used for field agriculture. In today's world, fire is no longer as important as it was 100 years ago. Cooking with fire became the cooking plate. From heating with fire came oil heating or similar. People are no longer so dependent on fire and it is often only used as an option, for example for barbecues. However, fire is still used as a heat source today, but no longer to the same extent.

In 100 years

In hundred years, fire will hardly serve as an important source of heat. Just like today, it will still be used as an optional element, but humans will be able to live without it.



2. Earth heating

Fire will lose more and more of its positive effects in the future, since more and more forest fires will occur due to global warming, which is why we have adapted our calculation precisely to this topic. In 100 years, there won't be a lot of countries which will be 100% safe from forest fires.

Here we show you as promised another video of an impressive forest fire. (Just click on the Link)

Video: <https://www.youtube.com/watch?v=BGqYLX8ursU>

The calculation to forest fire (how fast the fire spreads):

Zeit	0 Min.	60 Min	120 Min.	12 h
Fläche	1 m ²	3.4 m ²	11.4 m ²	2.2 km ²

Berechnung

Grundfunktion: $f(x) = a \cdot b^x$

Anwendung der Funktion:

a: 1 m²

b: 1.0205 $\Rightarrow$ Berechnung Wachstumsfaktor

$\rightarrow$ Das Feuer wächst exponential um 500 Meter/h.

f(x): Endwert
a: Anfangswert
b: Wachstumsfaktor
x: Zeit

Which impressed us the most from these 3 points

We have the feeling that fire had the most important effect on humans 100 years ago. Fire gave people a new power. Therefore, a lot of myths, legends and tales were related to fire. In earlier years, the population was very dependent on fire, which is why we were most interested in it.

Reflection

Through this project we became aware of the importance of fire in the past. Fire was an important part of everyday life as a source of energy (more heat) or as a cooking tool. Due to the development of technology, fire is becoming less and less important. Nevertheless, it cannot be replaced in the future.

Collaboration

Our ability to work in a team suited us and we complemented each other well as a result. We became even more aware of how important consultation is in teamwork.

a. Sources:

[Thema 7: Feuer – nützlich, gefährlich, faszinierend | Startseite | Naturwunder | SWR.de](#)

[Die Entdeckung des Feuers - \[GEOLINO\]](#)

[Seit wann nutzen die Menschen das Feuer? – stadtgeschichtchen](#)

https://wiki.bildungsserver.de/klimawandel/index.php/Feuer_in_der_Erdgeschichte

b. Pictures:

1. [Energie: Feuer - Feuer - Energie - Natur - Planet Wissen \(planet-wissen.de\)](#)
2. [Neue Messdaten heizen die Debatte an: Der Streit um die Erderwärmung - FOCUS Online](#)