

Free download The element of fire (Read Only)

learn how fire occurs when heat fuel and oxygen interact and how they affect fire behavior and spread find out how to prevent wildfires and protect your home from fire hazards the triangle illustrates the three elements a fire needs to ignite heat fuel and an oxidizing agent usually oxygen a fire naturally occurs when the elements are present and combined in the right mixture a fire can be prevented or extinguished by removing any one of the elements in the fire triangle what are the fire triangle elements the fire triangle is a model that demonstrates the three elements required for a fire the three elements of the fire triangle are oxygen heat fuel every fire triangle element is required for a flame to start and continue burning learn what fire is made of and how it differs from other states of matter find out how fire produces heat light and different gases depending on the fuel and oxidizer what is fire triangle the fire triangle is a simple way of understanding the components of fire each side of the triangle represents one of three components needed to have a fire oxygen fuel and heat fire is a chemical reaction and without one of these components fire cannot exist or be sustained oxygen heat and fuel are frequently referred to as the fire triangle add in the fourth element the chemical reaction and you actually have a fire tetrahedron the important thing to remember is take any of these four things away and you will not have a fire or the fire will be extinguished table of contents hide 1 there are four fundamental elements required for fire in any setting fuel material to be burned oxidizing agent generally oxygen in air heat energy to initiate the reaction propagation unless the initial fire spreads beyond the initial fuel it will self extinguish article what is fire resource add to collection fire is the visible effect of the process of combustion a special type of chemical reaction it occurs between oxygen in the air and some sort of fuel the products from the chemical reaction are completely different from the starting material learn about the nature composition and history of fire one of the four ancient elements explore the fire triangle the combustion reaction and the effects of fire on the environment and society fire rapid burning of combustible material with the evolution of heat and usually accompanied by flame it is one of the human race s essential tools control of which helped start it on the path toward civilization fire is one of the four classical elements along with earth water and air in ancient greek philosophy and science fire is considered to be both hot and dry and according to plato is associated with the tetrahedron bookmark is fire a solid liquid gas plasma or something else entirely source roman studio getty images the ancient greeks recognised that fire doesn t have the same physical properties as earth air or water but do we know much more these days let s look at the thorny question what exactly is fire part 1 fire basics lesson burning to learn grades 6 12 length lesson 1 1 2 class periods 50 minutes each lesson 2 3 class periods 50 minutes each topics fire basics what ecosystem do i live in and is this ecosystem prone to wildfires why do things burn what does fire need to start and be maintained how do things burn initially let s examine the three components that must be present for a fire to start fuel heat and oxygen whenever these three parts are present in the appropriate amounts and under the appropriate conditions ignition will occur and a fire will start if one of the parts is removed the fire will not

continue to burn learn about the spiritual metaphysical and magical aspects of the fire element one of the four classical elements in western philosophy discover how fire represents our passions creativity will light and transformation and how to work with it in divination tarot numerology and more learn how the ancient greeks believed that everything was made of earth water air and fire and how modern science explains these elements as states of matter explore the properties and examples of each element and how they relate to the natural world the fire tetrahedron is a model that represents the four elements required for a fire to start and continue fuel heat oxygen or another oxidizing agent and a self sustaining chemical chain reaction learn about the five elements of classical elemental systems their qualities orientations correspondences and cycles fire is the most spiritual and rarefied element associated with warmth light and transformation the ornl led team of scientists prepared a chemical complex of promethium which enabled its characterization in solution for the first time thus they exposed the secrets of this extremely rare lanthanide whose atomic number is 61 in a series of meticulous experiments the whole idea was to explore this very rare element to gain new 0 04 3 53 nearly 80 years after scientists at oak ridge national laboratory discovered an extremely rare radioactive element called promethium a team at the lab published a landmark study on

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