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fire is the rapid oxidation of a material the fuel in the exothermic chemical process of combustion releasing heat light and various reaction products 1 a at a certain point in the combustion reaction called the ignition point flames are produced the flame is the visible portion of the fire 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 what is fire what exactly are those orange flames rolfo rolf brenner getty images typically fire comes from a chemical reaction between oxygen in the atmosphere and some sort of fuel wood or gasoline for example of course wood and gasoline don't spontaneously catch on fire just because they're surrounded by oxygen fire is a chemical reaction that converts a fuel and oxygen into carbon dioxide and water it is an exothermic reaction in other words one that produces heat 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 understand the reason why fire flames have different color shape and movement what we know for sure is that fire is the visible effect of combustion an exothermic chain reaction requiring the fire triangle oxygen heat and some type of fuel for the most part fire is a mixture of hot gases flames are the result of a chemical reaction primarily between oxygen in the air and a fuel such as wood or propane in addition to other products the reaction produces carbon dioxide steam light and heat fire is mostly a state of matter called plasma however parts of a flame consist of solids and gases the exact chemical composition of fire depends on the nature of the fuel and its oxidizer most flames consist of carbon dioxide water vapor nitrogen and oxygen reporter's guide all about fire the ancient greeks believed that fire was one of the four basic elements that composed all things in the universe fire is a chemical reaction that releases light and heat the display usually marks the meeting of a combustible material and oxygen although other chemicals can spark flames as simply defined fire is a chemical reaction in a mixture of incandescent gases typically luminous with intense heat but candle flames wood fires and propane fires aren't created equal what constitutes fire depends on the fuel being burned says chen the state of fire is plasma mostly science cannot precisely describe the true nature of fire but to clear up the doubts of inquisitive minds fire is most similar to plasma plasma resembles a gas more than any other state of matter but it behaves very differently from a gas about the air now fire and smoke map the air now fire and smoke map provides information that you can use to help protect your health from wildfire smoke use this map to see current particle pollution air quality information for your location fire locations and smoke plumes smoke forecast outlooks where available and what fire really is is a whole bunch of fragments of molecules that have way too much energy finnegan said so they are emitting that energy in the form of heat and light that's what we actually see the super fast reaction that creates fire is called combustion in order to make it happen we need a few things fire is the full chemical process that occurs when a fuel burns in oxygen it includes everything the light the heat the sound the reaction itself a flame on the other hand is the light that it is produced by a fire in short a flame is the visible portion of fire can fire be cold no 1 fire is an event not a thing heating wood or other fuel releases volatile vapors that can rapidly combust with oxygen in the air the resulting incandescent bloom of gas further heats the fuel releasing more vapors and perpetuating the cycle 2 fire is just very rapid oxidation heat rises and makes currents of air that circulate as the hot air rises that is why flames appear to dance and move around fire needs oxygen to burn and it needs fuel for something to burst into flames it needs to be at a high enough temperature is fire living or non living explore the depths of this question with expert guidance from the team at the western fire chiefs

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