

Fire prevention when preparing for Christmas



SPARK JOY

NOT FLAMES

Guard YOUR Holidays from
Fire!



this fire triangle is made to
show what 3 things fuse a fire



The Big 3 are:

- FUEL
- OXYGEN
- HEAT

Bonus to tell your parents: the equation
that makes up a fire is



[picture is from canva)

DECOR THAT YOU NEED TO BE CAREFUL OF



What is Flammable

1. The fire place is the most flammable of all combined. If you put too much wood in there or accidentally light your shirt on fire. It will begin to spread through the rest of your house.

2. The heat from these lights (usually caused from conduction) can cause the plastic materials of an artificial tree to heat up and potentially ignite or melt, releasing toxic fumes.

3. The stockings are highly flammable since they are very close to the fire and should be secured tightly on the mantle to avoid it.

4. presents can be flammable but it all depends whats inside.

How to avoid

Inspect extension cords for broken or exposed wires or loose plugs

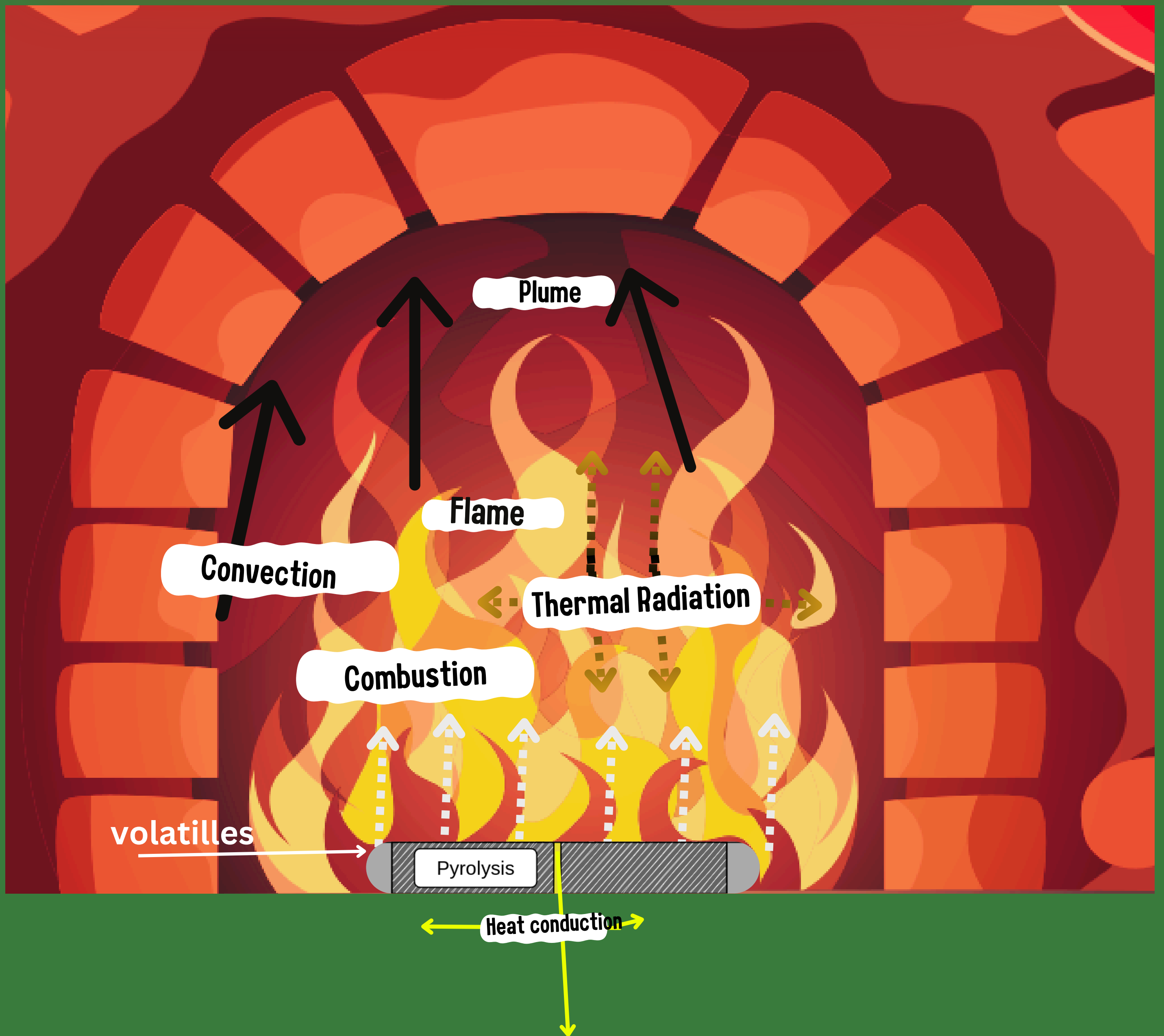
Do not use multiple extension cords or outlets

Make sure wiring does not run under rugs, over nails

Keep open flames away from walls, furniture, drapery and flammable items.

Keep a screen in front of the fireplace.

MACROSCOPIC MODEL OF FIRE



PARTICULATE MODEL OF FIRE

Before



During



After



girl accidentally lighting the tree
on fire

- when the lights have caught on fire or you lit a candle and it fell on the tree the fire will grow bigger and surround the whole tree.
- The tree is flammable because of the wood on it. An energy released by the chemical reaction (water vapor and CO_2) excites the electrons in the atoms of gas, which in turn emit visible light.
- eventually it will spread to other areas in your house and might burn down

- The tree will look like this after it burns.
- When wood is burned, oxygen and other elements in the air (mainly carbon, hydrogen and oxygen) react to form carbon dioxide that is released into the atmosphere, while the minerals turn into ashes.
- If you're careful this will not happen
- and if it does happen make sure you have a fire extinguisher in your house to avoid the situation

<https://deldarlegal.com/uncategorized/can-christmas-lights-cause-a-fire/#:~:text=But%20certain%20types%20of%20lights,or%20melt%2C%20releasing%20toxic%20fumes.>

<https://gema.georgia.gov/preventing-fires>

https://firedynamics.github.io/LectureFireSimulation/content/modelling/01_general/01_processes.html

https://www.customs.go.jp/ccl/e_kids/3.htm#:~:text=Wood%20is%20made%20of%20fiber,the%20minerals%20turn%20into%20ashes.

The other photos I found were from canva