Dear Jax, long?

> Kansas Citv. MO 64112 Questions, name & address

B: Notice the gray *mist* that lifts up off the wick, but notice it quicky.

C: Before the mist disappears. ask your grown-up to bring a lighted match down toward the wick. Do not let the match-flame

D: The candle will light.

Dear Neha and Amit,

First a friendly warning: Fires caused by candles can destroy your home and cause you serious burns. Never light a candle unless you have permission from a grown-up in your family.

Think of a candle as a solid oil lamp. The wick is really the thing that moves the fuel to the flame.

The fuel is the solid wax, which melts into a liquid and moves up the fibers of the wick into the flame where the wax then turns into a gas wax-vapor. That wax-gas is what's burning.



a liquid.

So lots! Really. That little demonstration shows us a

lot about how a candle works. When you lighted the candle the first time, the heat from the match melted the wax and it flowed up the fibers of the wick as

Then the wax vaporized. It turned into a gas.

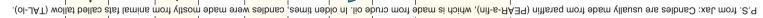
A: Wax-gas is what's burning in a candle flame. The heat from the flame turned the wax from a solid into a liquid, and

B: When you blew out the candle, that gray mist had wax-gas in it, still drifting up off the wick.

C: When your grown-up lowered the flame toward the wick, the wax-gas caught on fire, and that fire jumped back down the wax-gas to the wick, (D) lighting the candle again.

then it turns into a gas, and that's what's burning.



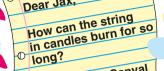




WHAT YOU NEED: Grown-up helper - candle

WHAT TO DO:

Explain to your grown-up that you're going to show how to light a candle without flame ever touching the candle's wick.



Neha & Amit Sanyal Pittsford, New York

Beakman or Jax P.O. Box 30177

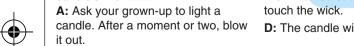












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