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*Fashion vs. Fire: How Flammable Is Your Attire?*

The purpose of this project was to determine which household fabrics are the most flammable, and unsafe. The experimenter hypothesized that the cotton would burn the quickest because research has shown it in the top two most flammable household fabrics. To perform this experiment, a vice was used to keep the metal rod at a constant height above the candle, and the rod was unwound at the end to form a place to hold the material above the flame. Nomex, cotton, polyester, and a cotton and polyester blend were all tested. The material was folded into fourths and placed in the rod, and then the candle was placed under it. The experimenter timed how long it took for the material to ignite, which was generally a matter of seconds, and then recorded the amount of time. This procedure was repeated five times for each material. On average, the polyester ignited after 2.16 seconds, the cotton after 5.44 seconds, and the cotton and polyester blend after only 0.74 seconds. The cotton and polyester blend burned the quickest, so the hypothesis refuted.