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Which Fabric Is the Best?

The purpose of this investigation was to test the fire resistance of cotton, polyester, and felt. Then I tested the water absorption of each fabric. I hypothesized that cotton is the most fire resistance and felt is the most water absorbent.

The experiment involved an oven and fire. First you set the fire the lowest it can go, then someone grab the fabric, while the other is ready to time it with the timer. When the fabric is placed above the fire and you see a little fire then stop the timer and throw it in the bucket of water. You do that with each fabric and then get another bucket of water to test the water absorbent. You dip the whole piece of fabric in the water then try to squeeze all the water out into a cup and compare then to each other.

My results were that cotton caught on fire the quickest, polyester caught on the second on fast, and last felt caught on fire the slowest. In the water absorption felt absorbed the most, cotton just a little, and polyester almost nothing at all.

My hypothesized was proved right fifty percent. I was proved wrong on the cotton being the most fire resistance but right on the water adsorption.