



Nomo(s)	Project Number
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Project Title	
Flammable Fabrics	
Abstract	
Objectives/Goals Abstract	
The objective of this study is to determine what fabric is the most flammable, a flammable; and therefor, should be use for children's clothing or house hold ite	and what fabric is the least ems.
Methods/Materials The materials of the study consisted of an Aim and Elame lighter, assorted nati	ral and synthetic fabrics
stopwatch and adult supervision. the method was to ignite the fabric and record	two different burn rates of
each fabric and record how fast or slow it burned.	
<b>Results</b> The results showed that the most flammable fabric was made of natural fibers. Natural fabrics tended to	
ignite more quickly, burn more rapidly and inconsistently than the synthetic fabrics. Some synthetic	
fabrics ignited quickly but burned at a steady slower pace. While most synthetic	c fabrics resisted ignition
and just melted from the heat of the flame.	
The results supported the hypothesis in that natural fabrics would ignite quickly	v and that synthetic fabrics
would resist ignition. The natural fabrics ignited quicker because they did not l	have any dyes or blends.
The synthetic fabrics resisted ignition because they have chemicals and blends	of things that are not
materials to use in everyday life.	certain fabrics and what
Summary Statement	
If you have a child, you should purchase clothing made of synthetic fibers, bec and findings synthetic fabrics ignite and burn slower than natural fabrics.	ause based on my research
Help Received	
I created the objective and hypothesis on my own. My mother oversaw the fab.	ric being ignited and my
father assisted in helping me attain the average degree of the heat source, the A	im and Flame.