



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Monika L. Gleim	Project Number J0511
Project Title Investigating the Effect of Different Solutions on the Elasticity of Various Fabrics	
Abstract Objectives/Goals To find out which type of detergent will weaken the fabric and cause the fabric to be point that it can't turn back to it's normal size. the other reason is to find out which detergent has the most effect on the fabrics. The fabrics are in being stretched and measured to see which detergent has the most effect. Methods/Materials The materials are 5 pieces of nylon, lycra, cotton, and polyester. 1 bottle of bleach and 1 bottle of ammonia. 1 box of salt and 1 box of baking soda. 5 jars and 10 cups of water. 2 long poles and 2 sawhorse stands. 1 ruler measured in cm and a sewing machine. 1 marker and 1 teaspoon. 2 25 pound weights and a pair of rubber gloves. A timer and 1 thermometer. Results The results were that the bleach weakened the fabric and caused it to lose it's elasticity the most and then the second detergent was the ammonia that caused the fabric to weaken on lose most of it's elasticity. Conclusions/Discussion What I learned from this project is that the bleach caused the fabric to lose most of its elasticity and that it's better to wash clothing with bleach but only white clothing.	
Summary Statement To find out which detergent weakens the fabric's elasticity.	
Help Received Moher helped get fabrics; Father helped get pole and stand.	