



Name _____ Period _____ Date _____

FABRIC EXPLORATION #2

Objective: To test the abrasion resistance of fabrics.

- Supplies needed:**
- 3-inch by 3-inch acrylic swatch or an old Orlon acrylic sock
 - 3-inch by 3-inch wool swatch or an old wool sock
 - 3-inch by 3-inch light to medium weight 65 percent polyester/35 percent cotton blend swatch or shirt-tail area of an old shirt made of this blend
 - Fine sand paper or an emery board

Student Procedures: Place one of the fabric swatches on a flat surface. Hold it down with the thumb and the first two fingers of one hand by placing the thumb at the bottom and the fingers at the top. Hold the sandpaper or nail file in the other hand and rub the center area of the fabric sample for approximately four (4) minutes. Repeat the procedure with each fabric sample. Attach the samples in the space provided on the left side of this page and record your experiment results.

Which of the fabrics showed the most damage from the abrasion or is the least resistant?

_____ Acrylic _____ Wool _____ Polyester/Cotton Blend

Which of the fabrics showed the least damage from the abrasion or is the most resistant?

_____ Acrylic _____ Wool _____ Polyester/Cotton Blend

Which sock would be the most durable?

_____ Acrylic _____ Wool

Which shirt would be the most durable?

_____ Acrylic _____ Wool _____ Polyester/Cotton Blend