



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

**FABRIC EXPLORATION #3**

**Objective:** To test for the tendency of fabrics to "pill."

- Supplies needed:**
- 3-inch by 3-inch acrylic knit swatch (could be from old acrylic sweater/socks)
  - 3-inch by 3-inch polyester T-shirt or polyester sweater-weight knit
  - 3-inch by 3-inch wool knit swatch (could be from an old wool sweater)
  - Brush with nylon bristles, such as a hair brush or shoe brush

**Student Procedures:** Place one of the fabric swatches on a flat surface. Hold the fabric taut by spreading the thumb and fingers of one hand to hold the fabric in place. With the brush in your other hand, brush the surface of the fabric for three to four minutes. Then rub over the brushed area with a piece of the same fabric for several minutes. Repeat this procedure with the other fabric samples. Record your results below and attach your fabric swatches to the left side of this page.

On which fabric(s) did "pills" form?

\_\_\_\_\_ Acrylic    \_\_\_\_\_ Wool    \_\_\_\_\_ Polyester

Which fabric pillled the worst?

\_\_\_\_\_ Acrylic    \_\_\_\_\_ Wool    \_\_\_\_\_ Polyester/Cotton Blend

Which fabric pillled the least?

\_\_\_\_\_ Acrylic    \_\_\_\_\_ Wool    \_\_\_\_\_ Polyester/Cotton Blend

Which fabric would be the best for a garment to be worn in an abrasive environment?

\_\_\_\_\_ Acrylic    \_\_\_\_\_ Wool    \_\_\_\_\_ Polyester/Cotton Blend