

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Organic Chemist Recording Guide for Applying Natural Dyes

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### ORGANIC MATERIAL

1. Gather materials (brush, dye choice, paper, ruler, paper towel)
2. Measure out 50 mL of dye into a beaker
3. Using brush, apply one coat of dye to paper (repeat on 2 additional pieces of paper)
4. Allow to dry for 5 minutes
5. Using brush, apply second coat of dye to paper
6. Label with type of organic dye used and group's name
7. Place in cool, dark storage to dry to prevent dyes from decomposing

#### SUMMARY:

- a. Amount of dye used per coat (mL): \_\_\_\_\_
- b. Amount of area covered per coat ( $\text{cm}^2$ ): \_\_\_\_\_
- c. Ratio of dye per  $6.5 \text{ cm}^2$  ( $1 \text{ in}^2$ ): \_\_\_\_\_
- d. Equation representing relationship of dye used and area covered ( $\text{cm}^2$ ): \_\_\_\_\_
- e. Ratio of dye per  $\text{m}^2$ : \_\_\_\_\_
- f. Equation representing relationship of dye and area covered ( $\text{m}^2$ ): \_\_\_\_\_
- g. Graph (Area covered (y) vs. Dye used (x) )