

# Tie-dye - Color Swirl

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Some sources proclaim that tie-dyeing has been around for thousands of years, but it is clear that it didn't start becoming popular in the United States until the 1950's and not really *known for* until the 70's. Tie-dyeing is a colorful and very individual form of art expression. It is extremely easy to personalize and is almost always cheerful. Since the 70's it has stuck around and now kids today continue to potentially tie-dye clothing for just about any event.



The cellulose in cotton is made of many monomer glucose molecules filled with hydroxyl function groups. These groups make it extremely easy for certain dyes to bind to the fiber. Many tie-dye kits use fiber-reactive dyes that react with hydroxyl groups to permanently bind them to the shirt. During the lecture we were shown cellulose chemical structures and we earlier learned about condensation polymers.