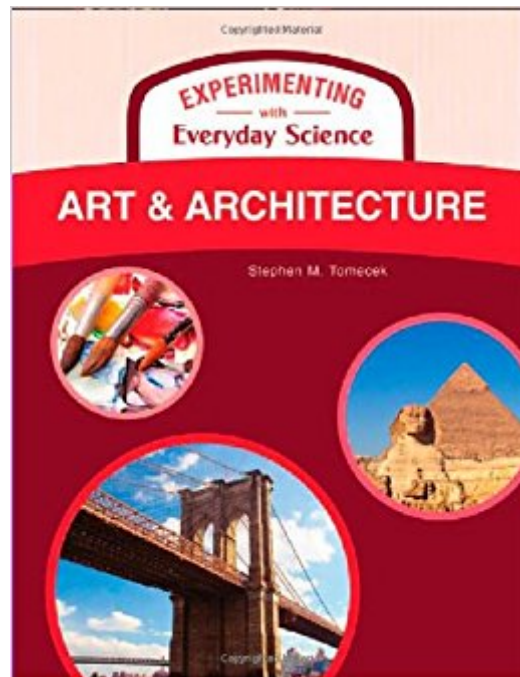




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Art And Architecture (Experimenting With Everyday Science)



Synopsis

Tall buildings dominate the landscape of most major cities, and crowds stare in awe of masterpieces in museums around the world. But how is science involved? *Art and Architecture* explores some of the scientific principles in sculpture, painting, photography, and the design and construction of buildings. Learn how light creates the colors you see in a painting and how holograms are produced. Discover the history of architecture from the ancient stone pyramids of Egypt to modern structures made from glass and steel. Hands-on activities help bring the science of art and architecture to life with topics ranging from how the forces of tension and compression affect the design of a bridge to how perspective in a drawing can make a picture look more lifelike.

Book Information

Series: Experimenting with Everyday Science

Library Binding: 174 pages

Publisher: Chelsea House Publications; 1 edition (June 1, 2010)

Language: English

ISBN-10: 1604131683

ISBN-13: 978-1604131680

Product Dimensions: 11.1 x 8.4 x 0.6 inches

Shipping Weight: 1.8 pounds

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Best Sellers Rank: #4,335,604 in Books (See Top 100 in Books) #81 in [Books > Teens > Art, Music & Photography > Architecture](#) #194 in [Books > Teens > Education & Reference > Science & Technology > Experiments & Projects](#) #682 in [Books > Teens > Art, Music & Photography > Art](#)

Customer Reviews

Gr 4-7—This fun and informative book features 25 simple experiments using common household items and foods such as blueberries, colored cellophane, food coloring, Magic Markers, miniature marshmallows, and wooden toothpicks to demonstrate principles and inspire creative thought about the intersection of science with the visual and mechanical arts. The six chapters include activities that illuminate certain scientific aspects of each respective subject. For example, "Science and the Origin of Art" includes experiments on wood, rocks, sediment, metal, pigments, and paper, while "Light and Color" studies shadows, bending light, light and pigments, mixing pigments, and separating pigments. Each activity is logically ordered

under headings such as "Time Required," "Materials," "Safety," "Procedure," "Analysis" (typically three questions), "Our Findings" (which briefly answer the "Analysis" questions), etc., and include one or more helpful illustrations. Interspersed are one- to two-page spreads about related topics—for example, text about the formation of clay segues into the experiment about sediments. Accessible for independent reading by children with a scientific bent or curiosity about how the world works, these experiments would also be useful for scout projects or science clubs. It would be mind-stretching for parents to conduct these experiments with their children, perhaps one each weekend, discussing the results and looking for examples in their environment.

Joel Shoemaker, formerly at South East Junior High School, Iowa City, IA

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