

THE JOURNEY OF COLOURS: FROM NATURE TO SCIENCE

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This text explores the evolution of dyes from their natural origins to modern scientific innovations, examining how chemistry has transformed the art and science of colour. It begins by detailing the use of natural pigments by ancient civilizations, including minerals and plant-based dyes, and follows their progression through history.

The Industrial Revolution marks a significant turning point as synthetic dyes emerge, revolutionizing industries such as textiles with new colours and production methods. The discussion extends to the environmental and health issues associated with synthetic dyes, leading to a growing interest in sustainable alternatives. Natural dyes are highlighted for their eco-friendliness, safety, and support for local economies, despite challenges like cost and variability.

The text also delves into contemporary advancements inspired by nature, including sustainable pigments and structural colours, which create vibrant, long-lasting, and environmentally friendly solutions. The study underscores the importance of integrating historical knowledge with modern scientific developments to address industrial and ecological challenges effectively.

Keywords: natural dyes, synthetic dyes, history of dyes, art, ecology, sustainability, textile installations, exhibition design.

