

ARISTARCHUS—ARTISTIC REALITY IN SCHOOL EDUCATION: ENACTED, REFLECTIVE AND COLLABORATIVE LEARNING WITH THE HUMAN ORRERY SPACE

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Abstract

This study explores the effectiveness of a human orrery for astronomy education through the ARISTARCHUS project, which involves a consortium of four organizations across France, Cyprus, Germany, and Greece. Astronomy education is crucial yet challenging due to its abstract concepts. The orrery fosters active learning and mental modeling. Projects employing orreries demonstrate significant learning outcomes, enhancing students' comprehension and attitudes towards astronomy. The ARISTARCHUS project aims to revolutionize astronomy education, promoting active learning, interdisciplinary approaches, and sustainable teaching methods across different educational systems. Evaluation through tests and teacher reports indicates promising results, suggesting a potential for transformative impacts on schools.