

TEACHING MATHEMATICS WITH ART

(OR IS IT TEACHING ART WITH MATH?)

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Can your child’s future really be boiled down to something as simplistic as whether they are right-brained, or left-brained? Surely, as homeschooling parents, we want our children to believe that they are capable of using “both sides” of their brains. In this educational and entertaining workshop, we will explore the natural, and logical connections between Mathematics and Art. We will investigate mathematical principles, and see how they are related to, and illustrated by, artistic applications. Likewise, we will explore several artistic concepts, and see how they are based on mathematical ideas. In addition, throughout, the importance of language and communication will be stressed, as it must play a key role in the understanding of both areas.

I. INTRODUCTION

- A. The Whole Child
 - 1.
 - 2.
- B. Current Technology
 - 1.
 - 2.
- C. Visual Clarity

II. CONNECTIONS

- A. The Arts as Science
- B. The Sciences as Art
- C. The Masters
- D. Sports

III. EXAMPLES

A. Three Basic 3-Dimensional Forms

B. Transformations

C. Tessellations (Tiling)

D. Area Formulas

IV. THE MESSAGE

Beauty in Art (in Math)

Curriculum

Never forget the whole child