

Title of Book: Math-terpieces: The Art of Problem-Solving
Author: Greg Tang
Publisher/Year: Scholastic Press, 2003.
ISBN: 978-0-605-33787-9

Grade Levels for Recommended Use: Ages 7-10 (AR reading level 3.5)

TEKS: TEK 3.1B (use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;)

Brief Summary: Math-terpieces: The Art of Problem-Solving is a trade book that constructs mathematic skills, such as computation and problem-solving. In addition, Math-terpieces: The Art of Problem Solving introduces students to art history by familiarizing them with historical artists.

Materials needed: The teacher can use any type of counters or manipulates.

Suggested Activity:

- I. Read –Aloud: the teacher will read Math-terpieces aloud with intonation and expression.
- II. After the first reading, the teacher will distribute manipulates or counters. (I will be using colored goldfish crackers for my activity).
- III. The instructor will reread selected Artists. The teacher will allow students to use manipulatives or counters to problem-solve the math questions presented in the book. The teacher will encourage the students to use more operations than just addition i.e., subtraction, division, and multiplication to come up with their answers. Students will be asked to justify the answer.
- IV. Students will write their own problem using their favorite artist and painting. Teacher will model an example. Before the students create their own problem, the students will be asked to present their problem to the class.

References: <https://gregtangmath.com/mathterpieces>

Adapted by: Carlos Almaraz (2019)