

## ART CORRELATIONS TO TAAS OBJECTIVES

### MATH

#### **TAAS OBJECTIVE 1: The student will demonstrate an understanding of number concepts.**

- Students will create and describe artwork based on number patterns-odd, even, and skip counting
- Students will recognize and compare fractions by using patterns and pictorial models in art activities
- Students will use appropriate math vocabulary while describing artwork

#### **TAAS OBJECTIVE 2: The student will demonstrate an understanding of mathematical relations, functions, and other algebraic concepts.**

- Students will discover missing elements in patterns while creating and observing art
- Students will classify objects in works of art
- Students will use whole number properties and inverse operations while studying art timelines, charts, and graphs

#### **TAAS OBJECTIVE 3: The student will demonstrate an understanding of geometric properties and relationships.**

- Students will recognize and compare two and three-dimensional figures and their properties while observing and creating art
- Students will identify similarity, congruence, and symmetry in works of art
- Students will practice using appropriate math vocabulary when describing and creating art

#### **TAAS OBJECTIVE 4: The student will demonstrate an understanding of measurement concepts using metric and customary units.**

- Students will discuss and solve problems using a variety of measurement units when creating art
- Students will determine the perimeter and/or area when studying or creating art
- Students will learn and use math related vocabulary when discussing works of art

#### **TAAS OBJECTIVE 5: The student will demonstrate an understanding of probability and statistics.**

- Students will collect, organize, describe, display, and interpret a variety of information when studying graphs relating to art work
- Students will analyze data to determine possible outcomes in a given situation by studying art-related printed material

**TAAS OBJECTIVE 6-9: The student will use the operation of addition, subtraction, multiplication, and division to solve problems.**

- Students will solve problems that require addition, subtraction, multiplication, and/or division when completing an art product
- Students will determine needed consumables, paint, paper, and glue for art projects by using estimation skills
- Students will experience real-world addition, subtraction, multiplication, and division problems when determining arrangements and displaying their work

**TAAS OBJECTIVE 10: The student will estimate solutions to a problem situation.**

**TAAS OBJECTIVE 13: The student will evaluate the reasonableness of a problem situation.**

- Students will estimate the solution to an art problem/product when using visual thinking
- Students will use estimation vocabulary - about, over, approximately, nearly, under, around, a little less, a little more- when discussing and creating art
- Students will estimate the reasonableness of solutions when creating art

**TAAS OBJECTIVE 11: The student will determine solution strategies and will analyze or solve problems.**

- Students will select strategies or solve problems using basic operations with whole numbers when creating art
- Students will use topics/shapes in measurement geometry-area, perimeter, parallelogram, trapezoid-and in comparative geometry-symmetry, transformation, reflection, rotation-when creating designs

**TAAS OBJECTIVE 12: The student will express or solve a problem using mathematical representation.**

- Students will identify and formulate solution sentences for difficult mathematical problems when reading printed material based on art
- Students will derive information to solve problems using charts, picture graphs, and bar graphs based on works of art