INTEGRATION OF MATHEMATICS WITH ART

Presented By

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WHAT IS ARTS INTEGRATION?

Arts Integration is using the arts (music, visual art, dance, drama, and creative writing) to teach non-arts standards (language arts, math, science, and social studies.)

Arts integration is a term applied to an approach to teaching and learning that uses the fine and performing arts as primary pathways to learning. Arts integration differs from traditional arts education by its inclusion of both an arts discipline and a traditional subject as part of learning.
CHARACTERISTICS OF ART INTEGRATION

- It is a powerful tool in the hands of teacher to help students learn
- It is more than a stand-alone activity
- It is a higher order thinking skills
- Its main aim is student engagement in the creative process
  Learning with Fun
- surprising associations between the two subjects
WAYS TO INTEGRATE ART AND MATH IN AN ELEMENTARY CLASSROOM

It is common for art teachers to integrate other subject areas into their art lessons. While we talk about art integration in mathematics it seems like we are trying to mix oil and water, there are many useful ways to integrate these two subjects.

Children can use colors and shapes to enhance their understanding of math. They can also apply math theory to pictures and objects. When we thinking about of math, it is not strictly in terms of arithmetic, but also in terms of problem solving, geometry, and visualization, ideas will start to materialize for integrated lesson plans.
ACTIVITIES AND LESSON IDEAS

GANIT MALA- A string having 100 beads in total in which 10 beads of colour red and 10 beads of colour white alternatively.

NUMBER CARDS- It is use for combining numeral recognition with positions of numbers

NUMBER CATCHERS- For multiplication Table
RANGOMETRY- For shapes and Patterns:
A kit constituting colorful shapes like circle, square, rectangle, hexagon, rhombus, trapezium etc. Then students make many patterns using those cut outs.

STRAW CONNECTING- For 2-D and 3-D shapes
FRACTION DISC-

CUT GEOMETRIC SHAPES OF DIFFERENT SHAPES FOR COLLAGES-
This helps teach and reinforce understanding of shapes. Have students cut circles, triangles, squares and other shapes of different sizes. Incorporate them into a paper collage.
AAKAR PARIVAAR- It consists of shapes like square, rectangle, semicircle, circle, of different sizes.

Rangoli
There are many fun and educational ways to integrate art and math for elementary school students.

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MADHUBANI ART

Madhubani is a form which was originated from Maharashtra and is now used worldwide. In this art different kind of flowers can be used viz. marigold, rose, tulip, etc. The main characteristic of this painting is that it is done in the form of making double lines and gap between them is filled by sketching straight lines joining them.
WARLI ART

this type of painting that it is one of the most intriguing forms of Indian folk painting,
Only geometrical shapes (lines, triangles, circles) are used for creating the magnificent scenery or to explain numerous concepts.
PAPER CRAFT
SOME MORE ACTIVITIES

**Writing:** Make a shape poem. Using any basic shape, write a poem around that shape. Incorporate the theme of the shape into the poem. For example, with a circle, have students concentrate on ideas or concepts that are round. This is a great medium for exploring feelings in poems.

**Movement/Drama:** demonstrate with a series of exercises how the body can represent different shapes and figures. Ask students to show how they can make a square, circle, cube, triangle, etc.
ADVANTAGES OF ART INTEGRATION IN MATHEMATICS

- Students take more interest in math class each day.
- Students become more attentive to the math lessons.
- Minimize discipline problems during the math sessions.
- The students spare time can be utilized for learning activities.

Integration between mathematics and Arts is a great combination to make math class interactive, interesting, enjoyable and fun able so our children’s learn mathematics with fun.
Thank you