

Subject: Mathematics

Grade: Fifth

Standard: #12 Connections

**Key Concept:** Students recognize and make mathematical connections with other school subjects and the real world.

**Generalization:** Students will recognize and develop mathematical connections.

**Background:**

This lesson should be given near the end of the school year. Students are to prepare a product which illustrates the connection of a specific mathematics topic they have covered during the year to another subject, a career, an everyday life activity, or nature. Within each tier, the teacher may choose to have students work in pairs, triads, quads, or as a whole group.

For example, a pair of students might choose the mathematics topic ratios and proportions and show the use of these in history or science. The product the pair of students would create will depend on the tier to which they are assigned.

This lesson is tiered in *product* according to *learning style*.

**Tier I: *Visual Learners***

Students in this tier will create a visual image, e.g. picture, drawing, photograph, PowerPoint or HyperStudio presentation, graphic.

**Tier II: *Auditory Learners***

Students in this tier will create an auditory image, e.g. song, story which is read, musical composition, poem, tape recording, video recording with sound and music.

**Tier III: *Kinesthetic Learners***

Students in this tier will create a physical image, e.g. play, story which is acted out, 3-D project, activity, video recording with action, sound, and/or music.

Each tier will share their products with the whole class. An extension of this lesson would be to have the entire class plan and give a presentation of all the products to the entire school and/or parents.

**Assessment:**

Teacher could assess the products for accuracy of the use of the mathematics topics, the accuracy of the facts from the related subject, and create a rubric for evaluating the students' presentation skills.