

## **Make the Connection with Real-World Mathematics**

### ***NCTM Regional Conference 2012***

#### Purpose of Real-World Mathematics

- Create an integrated and contextualized mathematics curriculum
- Students will work within an experiential learning environment
- Units will connect mathematics to real-world contexts

#### Framework and Effective Integration of a Contextualized-Curriculum

- Help students learn to think critically and to develop a common core of knowledge necessary for success in the future.
- An integrated curriculum also seems logical, since in the real world people's lives are not separated into separate subjects.

#### Cooperative Learning Groups

- The teacher's main responsibility is to create a focused lesson with guided instruction
- The student responsibility is to collaborate while learning and complete tasks independently.
- These processes are gradual, so that while the teacher releases the responsibility of learning to the students, the students take on more responsibility.
- Grouping students strategically
- Holding students accountable
- Providing timelines and structure for completion of tasks

#### Overview:

##### *Examples of projects and their related math concepts include:*

- "Planning a Party" (number sense and proportions)
- "Travel the World" (proportions and number)
- "Musical Mathematicians" (number sense)
- "Become an Author" (geometry)
- "Game Time" (probability and statistics)

#### Be Creative!

- Use a funds of knowledge survey to explore circumstances that are culturally relevant to your students.

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