Date: February 24, 2010  
Grade/Class/Subject: Seventh Grade Math

Unit/Theme: Patterns, Functions, and Algebra and 3-D figures, Volume, and Surface Area  
Standards: 8.17 and 8.7

Content Objective(s): (what should students learn?)
Understand how to apply volume, surface area, area, and perimeter to real-life situations.

Language Objective(s): (in what ways will they use the language of your discipline?)
Given pictures, cards and formulas, students will match the formula to a real-life object. Students will then write the formula and substitute known values for variables in a formula.

Key Vocabulary
- area
- perimeter
- surface area
- volume
- triangle
- circle
- circumference
- diameter
- radius
- length
- width
- height
- base
- pi
- diagonal
- cylindrical
- cone
- rectangular
- trapezoid
- pyramid
- prism
- side

Supplementary Materials
- 26 items
- plastic bags with cards
- interactive notebooks
- recording sheet

SIOP FEATURES

Preparation
- Adaptation of content
- Links to background
- Links to past learning
- Strategies incorporated

Scaffolding
- Modeling
- Guided practice
- Independent practice
- Comprehensible Input

Group Options
- Whole class
- Small groups
- Partners
- Independent

Integration of Processes
- Reading
- Writing
- Speaking
- Listening

Application
- Hands-on
- Meaningful
- Linked to objectives
- Promotes engagement

Assessment
- Individual
- Group
- Written
- Oral

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Lesson Sequence:
1. Warm-up
2. Review previous lesson (shared on powerpoint)
3. Intro to lesson as an entire class.
4. Working in pairs or threes, students will complete the recording sheet
5. Exit pass - Answer the question predetermined by teacher.

Reflections:

(Reproduction of this material is restricted to use with Echevarria, Vogt, and Short, 2008. Making Content Comprehensible for English Learners: The SIOP® Model.)