Teacher: Sandra Judge-Harden  Date: 3/2/2010  Period: 1st  Subject/Class/Grade: Math/MSMII/7th

Unit/Theme: Surface Area  
Standard: SOL 7

Content Objective (Benchmark) - All students will be able to solve problems using formulas.

Language Objective (Desired Result) - All students will be able to create 3-D shapes and discover surface area information with members of their group.

### Key (Special) Vocabulary
- Length
- Width
- Height

### Supplementary Materials (graphs, models, visuals) (Marzano)
- Net cut outs
- Index cards

### Preparation /Building Background (Setting the Stage)
- X Adaptation of content
- X Link to background
- X Bridge to what is known
- X Links to Past Learning
- X Meaningful activities

### Strategies (Effective Instruction)
- X Modeling
- X Guided Practice
- X Independent Practice
- X Higher Order Thinking Qs
- (Blooms)
- X Opportunities to use learning strategies
- (monitoring and clarifying learning; Note taking–mapping)

### Grouping Options (Cooperative learning: Inter/Intrapersonal)
- X Whole Class
- X Small Group
- X Partners
- X Independent

### Practice/Application (Blooms- Application)
- X Integration of skills
- X Reading
- X Listening
- X Writing
- X Speaking
- X Application of knowledge
- X Hands-on materials/manipulatives

### Comprehensible Input
- X Clear explanation of tasks
- (explain directions)
- X Uses gestures demonstration; adjusts speech
- X Modeling, visuals, graphic organizers

### Review/Assessment (closure)
- X Review of key concepts
- X Review of key vocabulary
- X Provides regular feedback
- X Various types of assessment
- X Spot checking, group response
- X Testing
Procedure:

POD: Students will work independently on problems of the day, Captain will lead the class

We will do board game activity and review homework.

Have captain read objectives.

Opening: Review with students what they remember (from yesterday’s lesson) about the Surface Area of a rectangular prism. Model what we would like the class to do in their “expert groups”.

“Surface Area” Expert Groups: Put students in groups of 3’s. Distribute net shapes (2 per table), index cards and tape. Give instructions on what is expected of each expert group:

1. decide who will be 1, 2 and 3
2. show 4 areas of discovery
3. copy your questions on the index card
4. cut, color and tape your shape
5. answer the question according to your number and the last question will be answered collectively
6. when called upon, give class presentation

Closing: Have captain re-read objective and asked ask class if we have accomplished our goal. Why or why not…discussion

Reflections