# LEARNING PLAN - 8th Grade

## Exploratory Activities
Scott Foresman – *Exploring Mathematics 8: Visual Thinking #77*

20 Thinking Questions: “Which Solid Has the Greatest Surface Area?”

## Concept Development Activities
**Spatial Problem Solving with Cuisenaire Rods:** “Seeing 3-dimensional Rod Designs in 2 Dimensions.”

- **Ruins of Montarek - Investigation 1**
- **Filling and Wrapping – Investigation 6**
- **Scott Foresman Middle School Math: “Surfing the Surface”**

## Materials and Resources
- **Spatial Problem Solving with Cuisenaire Rods - 1983**
- **Cuisenaire Rods**
- **20 Thinking Questions for Rainbow Cubes**
- **Rainbow Cubes**
- **Scott Foresman-Addison Wesley Middle School Math 8 Course 3 Vol 2 p461**
- **Connected Math: Ruins of Montarek**
- **Connect Math: Filling and Wrapping**

## Basic Facts and Standard Algorithms Formalized
- **Investigation 1 – Application Problems pp19-21**
- **Investigation 1 – Additional Practice p154**
- **Investigation 6 – Application Problems pp61-64**
- **Investigation 6 Additional Practice p148**

## Originality and Creativity
**Student Products**
- **Written**
  Have students write a paragraph describing how they would find the volume of a box for which they know the length, width, and height.
- **Verbal**
  Tell your partner how to find the volume how to find the volume of a box given the length, width, and height.
- **Kinesthetic**
  With color cubes, build a building, then build top, front, and side views separately.
- **Visual**
  On poster board display a 3-dimensional drawing of a building, and show the front, side, and top views.

## Related TEKS

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