SIOP Lesson Plan

Date: Mar 2009 Grade/Class/Subject: ESL: HS and Gateway

Unit/Theme: Geometry Standards: GED

Content Objective(s):

TSWBAT:

- analyze properties and determine attributes of two- and three-dimensional objects;
- 2. explore relationships of congruence and similarity among classes of two- and three-dimensional geometric objects, make and test conjectures about them, and solve problems involving them;

 3. establish the validity of geometric conjectures using deduction, prove theorems;

 4 use algebraic relationships to determine lengths and angle measures through proportion

Language Objective(s):
TSWBAT: describe the characteristics of different kinds of two-dimensional geometric shapes

Key Vocabulary

- 1. triangle (right, equilateral, isosceles, scalene), quadrilateral, trapezoid, parallelogram, rectangle,
- quadrilateral, trapezoid, parallelogram, rectangle, rhombus, square, pentagon, hexagon, octagon, 2. angle (acute, obtuse), proportion, congruence, similar, area, perimeter 3. Formula for Area: A=sxs (square), A=lxw (rectangle), A=bxh (parallelogram), A=1/2 x bh (triangle), A=3.14 x r x r (circle). Formula for Perimeter: P= 4 x side (square), P= 2 x I + 2 x w, P= s1 + s2 + s3 (square). Formula for Circumference of a circle= 3.14 x d (circle) 4. Pythagorean Relationship= a2 + b2 = c2, (a and be are legs and c the hypotenuse of a right angle)

Supplementary Materials

Longman Math (Pearson, 2005). Twister Board (shower curtain and markers. Shoe box with card board figures.

SIOP Features Grouping Options ☑ Whole class ☑ Small groups ☑ Partners ☑ Independent Scaffolding Preparation Scatfolding Modeling Guided practice Independent practice Comprehensible input Application ⊠ Hands-on ⊠ Meaningful ⊠ Linked to objectives ⊠ Promotes engagement Integration of Processes Assessment Integration of Reading Reading Writing Speaking Listening Assessment Individual Group Written Oral

Lesson Sequence

BUILDING BACKGROUND

Some of the shapes that dominate our world are squares, rectangles, triangles, circles, cubes, rectangular solids, and cylinders. To get your mind accustomed to thinking geometrically, take a visual tour of your classroom to see where these shapes are.
a.Square: student should explain how the square he found has four sides with the same length, every

angle in a square is a right angle, or 90 degrees.