

Algebra/Geometry Institute 2004

Lesson Plan 1

Faculty Name: Eddie L. Childs
School: John F. Kennedy Memorial High School
City: Mound Bayou, MS
Grade Level: Grade 10 Geometry



1. Teacher objective(s)

- ❖ The students will identify pairs of angles formed by two lines and a transversal (MS framework 2a, 2b).

2. Instructional Activities

- ❖ Class will be divided into four groups of equal members of students.
- ❖ After defining alternate interior, corresponding and alternate exterior angles, the students will identify the special angles.
- ❖ The students will make models out of meter sticks or other sticks and bolts to illustrate the properties of parallel lines and congruent angles.
- ❖ Students may not understand what is meant by the interior and exterior of two lines. The group will copy the diagram on parallel lines cut by a transversal line; the students will shade the interior angle with one color and the exterior angle with a different color.
- ❖ The group will investigate the following pairs of angles by measuring them with a protractor: alternate interior, alternate exterior, consecutive interior, and corresponding angles.
- ❖ Students will be asked to describe each special angle relationship when two parallel lines are cut by a transversal line in their own words.
- ❖ Students will be given handout worksheets for class work and the teacher will do one example from the worksheet before the students start their work.
- ❖ Student will write a journal entry on “Why are parallel lines important in everyday life?”
- ❖ Students whose class work and/or homework indicate that additional help is required will be assigned reteaching worksheets during the next lesson period for before or after school remedial help.

3. Material and Resources

- ❖ Straightedge, protractor, transparencies
- ❖ Practice worksheets identify pairs of angles formed by two parallel lines and a transversal line
- ❖ Worksheet on reteaching
- ❖ Sticks, bolts
- ❖ White board
- ❖ Dry erase markers

4. Assessment

- ❖ Observation of the Activity
- ❖ Classroom work – Practice worksheet
- ❖ Homework page 135 – exercise 1-15
- ❖ Reteaching worksheet
- ❖ Students' response
- ❖ Biweekly Test

Name: _____ Class: _____ Date: _____

Practice

Parallel Lines & Transversal

1. Identify the special name for the angle pair.

a. Angle 1 and Angle 12

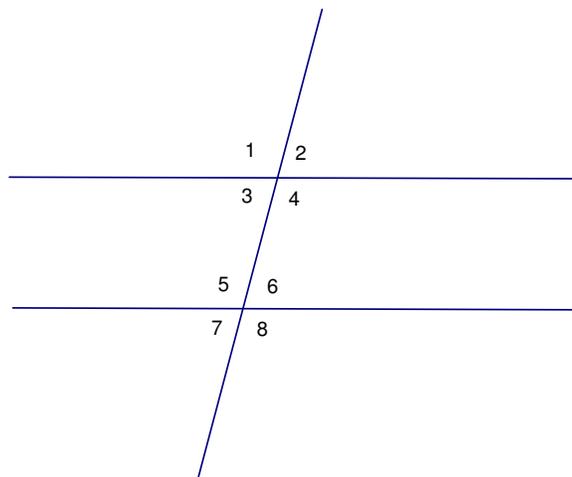
b. Angle 2 and Angle 10

c. Angle 4 and Angle 9

d. Angle 6 and Angle 3

e. Angle 14 and Angle 10

f. Angle 7 and Angle 13



Name: _____ Class: _____ Date: _____

Reteaching

In the figure at right, line l and p are parallel.

1. List all the angles that are congruent to Angle 1.

2. List all the angles that are congruent to Angle 2

3. Alternate interior angles _____

4. Alternate exterior angles _____

5. Corresponding angles _____

6. Same-side interior angles _____

