Algebra/Geometry Institute Summer 2003
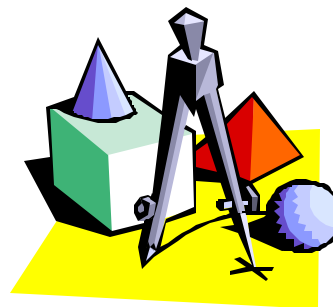
Lesson Planning Guide

Faculty Name: Steven G. Hulette
School: Myrtle Hall III
City: Clarksdale, MS
Grade Level: 6th

1   Teaching objective(s)

    A. The students will explore Institute Content Based on MS. Framework III by Exploring geometric patterns and relationships such as. Draw points, lines (parallel, perpendicular, intersecting), line segments, and rays.

2   Instructional Activities

    A.   The teacher will introduce students to geometric terms through discussion, overhead projector and transparencies..
        1.   points
        2.   lines
            a.   parallel
            b.   perpendicular
            c.   intersecting
        3.   line segments
        4.   ray

    B.   The teacher will introduce students to geometric elements through class discussion, overhead projector, and transparencies.
        1.   points
        2.   lines
            a.   parallel
            b.   perpendicular
            c.   intersecting
        3.   line segments
        4.   ray

    C.   The students will work in small groups of three to four students per group. Each group will make flash cards geometrical terms and definitions of today's lesson on 3"n by 5" cards. Each group will work with flash cards

for approximately twenty minutes. Students will also record the definitions in the math journals. The terms to be learned are:
1. points
2. lines
    a. parallel
    b. perpendicular
    c. intersecting
3. line segments
4. rays

D. The students will utilize geo-boards and graph paper to aid them in visually understanding the basic elements of geometry elements. They will plot and draw several examples of each on graph paper and construct examples on the geo- board.
    1. points
    2. lines
    3. parallel
    4. perpendicular
    5. intersecting
    6. lines segments
    7. ray

3 Materials and Resources
    A. The teacher will provide geo-boards, geo-bands graph paper, transparencies, and overhead projector.

    B. The students will provide pencil, paper, textbook, journal, 3X5 cards, and straight edge.

4 Assessment
    A. The teacher will:
        1. Observe the students for participation during the opening and closing class discussion.
        2. Observe groups as they use geo-boards to create geometric elements
        3. Check students in their groups for comprehension of terms as they work with flash cards..

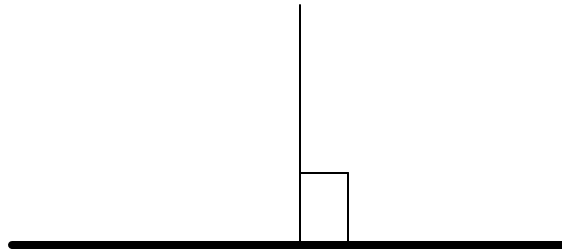For Transparencies and or Handouts

Some Geometry Terms to Know

Point: Has no size and no dimension, merely position.

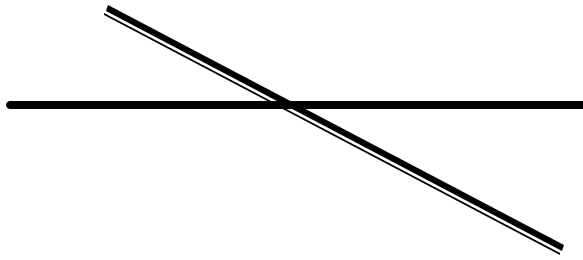Line: Infinitely many points extending in both directions. (goes on forever)

Parallel Lines: To lines that lie in the same plane and do not intersect.

Perpendicular Line: To lines that intersect to form a right angle.

Intersecting Lines: Any two or more lines that meet ant any point.

Line Segment: Any length of a line that is less that infinity.

Ray: Set of points on a line that consists of a segment.