

Class – VII

Lesson Plan (2023-24)

MATHEMATICS

Topic: Lines and Angles

KPI 2(CLASS VI) :- Improving visualization skills in Application of geometrical Concepts.

Brief Description of the lesson: In this chapter the concepts of transversal, complementary, supplementary angles, linear pair and angles formed by transversal with the lines (intersecting and non-intersecting lines) are to be taught.

Objectives:

I -Specific Objectives: To enable the students to:

S1. Define Parallel lines, intersecting lines and transversal. (K)

S2 Identify Interior angles, Exterior angles, Corresponding angles, Alternate angles, adjacent angles, vertically opposite angles and Linear pair. (U)

KPI 2 Enhance visualization skills while doing questions based on lines and angles.

S3. Understand linear pair, complementary angles and supplementary angles. (U)

S4. Understand when a transversal intersects a pair of parallel lines (U) **Summarizing**

The alternate angles are equal.

The corresponding angles are equal.

Co-interior angles or interior angles of same side are supplementary.

II - Behavioral Objectives: Students will be able to develop:

B1. Visualizing skill, Imagination skill, in daily life they will be able to find example of parallel lines and intersecting lines. (K)

Process / Activities

As per KPI 2

Activity ACT 1 (to introduce the lesson)

First students will draw some pair of angles and check whether given pair of angles are supplementary or complementary. **K**

Activity ACT 2 (to support learning) : Students will be asked to prove that pair of vertically opposite angles are equal by cutting and pasting method. **A**

Skills (as per subject): Imagination and observation

Assessment:-Assessment will be done on the basis of above activities and assignment.

KPI 2(Class test / worksheet /planned activity)

Expected Learning Outcomes:

Students would be able to:

- Apply concept of linear pair, complementary angles and supplementary angles. **A**
- Solve question based on Parallel lines, intersecting lines, Interior angles, Exterior angles, and Transversal, Corresponding angles, Alternate angles and Linear pair. **A**

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- Understand when a transversal intersects a pair of parallel lines **(U)Exemplifying**
 1. alternate angles are equal.
 2. corresponding angles are equal.
 3. co-interior angles are supplementary.