

## Lesson Plan: Trigonometry

Created By: Mr. Varun Dev

Grade 10 Mathematics

30 Minutes

October 30, 2025

### Learning Objectives

- Students will identify all six trigonometric ratios (sine, cosine, tangent, cosecant, secant, and cotangent) for a given acute angle in a right triangle within 10 minutes. (Bloom's Taxonomy Level: Remembering)
- Students will explain the significance of each trigonometric ratio in relation to sides of a right triangle within 5 minutes. (Bloom's Taxonomy Level: Understanding)
- Students will apply trigonometric ratios to calculate unknown side lengths or angles in right triangles through problem-solving exercises related to daily life contexts such as measuring heights of structures within 15 minutes. (Bloom's Taxonomy Level: Applying)
- Students will analyze real-life scenarios involving heights and distances and solve corresponding trigonometric problems accurately within the 30-minute session. (Bloom's Taxonomy Level: Analyzing)