

# UNIT 10 - LESSON PLANS

<b>Class</b>	Algebra 1	<b>Topic</b>	Trigonometric Ratios	<b>Lesson</b>	6	<b>Of</b>	6
--------------	-----------	--------------	----------------------	---------------	---	-----------	---

## Objective

Students will:

- Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.
- Explain and use the relationship between the sine and cosine of complementary angles.
- Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

## "I Can" Statement

I can understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.

I can explain and use the relationship between the sine and cosine of complementary angles.

I can use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

## Common Core Standards

CCSS.MATH.CONTENT.HSG.SRT.C.6

Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.

CCSS.MATH.CONTENT.HSG.SRT.C.7

Explain and use the relationship between the sine and cosine of complementary angles.

CCSS.MATH.CONTENT.HSG.SRT.C.8

Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

## Bell Work

See Bell Work 10-6

## Procedures

1. Start and lead student discussion related to the bell work.
2. Distribute the Guided Notes
3. Present lesson or play a video lesson.
4. Use an Online Activity if time permitted.
5. Distribute Lesson Assignment.

# UNIT 10 - LESSON PLANS

**Assessment**

Bell Work 10-6  
Assignment 10-6  
Exit Quiz 10-6

**Additional Resources**

See Online Activities