

# UNIT 4- LESSON PLANS

**Class** Algebra 2

**Topic** U4 - Matrix Multiplication

**Lesson** 2 **Of** 7

## Objective

Students will:

- **Understand** the basic concept of matrices multiplication.
- Students will be able to :
  - a.) Multiply matrix
  - b.) Identify the type of matrices and the procedure to multiply them.

## "I Can" Statement

- I can multiply different types of matrices.

## Common Core Standards

[CCSS.MATH.CONTENT.HSN.VM.C.9](#)

Understand that, unlike multiplication of numbers, matrix multiplication for square matrices is not a commutative operation, but still satisfies the associative and distributive properties.

[CCSS.MATH.CONTENT.HSN.VM.C.10](#)

Understand that the zero and identity matrices play a role in matrix addition and multiplication similar to the role of 0 and 1 in the real numbers. The determinant of a square matrix is nonzero if and only if the matrix has a multiplicative inverse.

## Bell Work

Solve a quick quiz to refresh the concept Matrices Multiplication.

## Procedures

1. Start and lead student discussion related to the bell work.

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2. Distribute the Guided Notes
3. Present lesson or play a video lesson.
4. Distribute Lesson Assignment.
5. Have students check each other's work.

## Assessment

Assignment 4-3

How to multiply matrices of different type?

How to identify whether multiplication rules hold or not?

## Additional Resources

[https://www.khanacademy.org/math/precalculus/precalc-matrices/multiplying-matrices-by-matrices/e/multiplying\\_a\\_matrix\\_by\\_a\\_matrix](https://www.khanacademy.org/math/precalculus/precalc-matrices/multiplying-matrices-by-matrices/e/multiplying_a_matrix_by_a_matrix)