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| **Class** | Algebra 2 | **Topic** | U4 - Matrix Multiplication | **Lesson** | 2 | **Of** | 7 |

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| **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. |
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| **“I Can” Statement** | • I can multiply different types of matrices. |

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| **Common Core Standards** | [CCSS.MATH.CONTENT.HSN.VM.C.9](http://www.corestandards.org/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](http://www.corestandards.org/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. |
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| **Bell Work** | Solve a quick quiz to refresh the concept Matrices Multiplication. |

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| **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. Distribute Lesson Assignment.  5. Have students check each other’s work. |

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| **Assessment** | Assignment 4-3  How to multiply matrices of different type?  How to identify whether multiplication rules hold or not? |

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| **Additional Resources** | <https://www.khanacademy.org/math/precalculus/precalc-matrices/multiplying-matrices-by-matrices/e/multiplying_a_matrix_by_a_matrix> |