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| **Class** | **PreCalculus** | **Topic** | **Inverse Relations and Functions** | **Lesson** | 7 | **Of** | 1 |

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| **Objective** | Students will:   * Find inverse functions. * Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. * Verify by composition that one function is the inverse of another. * Read values of an inverse function from a graph or a table, given that the function has an inverse. * Produce an invertible function from a non-invertible function by restricting the domain. |
| **“I Can” Statement** | I can find inverse functions.  I can solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse.  I can verify by composition that one function is the inverse of another.  I can read values of an inverse function from a graph or a table, given that the function has an inverse.  I can produce an invertible function from a non-invertible function by restricting the domain. |

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| **Common Core Standards** | CCSS.MATH.CONTENT.HSF.BF.B.4  Find inverse functions.  CCSS.MATH.CONTENT.HSF.BF.B.4.A  Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, f(x) =2 x3 or f(x) = (x+1)/(x-1) for x ≠ 1.  CCSS.MATH.CONTENT.HSF.BF.B.4.B  (+) Verify by composition that one function is the inverse of another.  CCSS.MATH.CONTENT.HSF.BF.B.4.C  (+) Read values of an inverse function from a graph or a table, given that the function has an inverse.  CCSS.MATH.CONTENT.HSF.BF.B.4.D  (+) Produce an invertible function from a non-invertible function by restricting the domain. |

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| Bell **Work** | See 1-7 Bell work |

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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. Use an Online Activity if time permitted.  5. Distribute Lesson Assignment. |

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| **Assessment** | Bell Work 1-7  Assignment 1-7  Exit Quiz 1-7 |

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| **Additional Resources** | See Online Activities |