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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.
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| **“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.4Find inverse functions.CCSS.MATH.CONTENT.HSF.BF.B.4.ASolve 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 Notes3. 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 1-7Assignment 1-7Exit Quiz 1-7 |

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