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| **Class** | Algebra 2 | **Topic** | U1 - Properties of Real Numbers | **Lesson** | 1 | **Of** | 6 |

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| **Objective** | Students will:   * Understand that real numbers have properties that determine how we can manipulate them when solving equations. * Identify and apply the following properties of operations with real numbers:   a.) commutative and associative properties of addition.  b.) the distributive property.  c.) the additive and multiplicative inverse property.  e.) the multiplicative property of zero. |
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| **“I Can” Statement** | • I can identify various properties of real numbers. |

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| **Common Core Standards** | [CCSS.Math.Content.6.EE.A.3](http://www.corestandards.org/Math/Content/6/EE/A/3/) Apply the properties of operations to generate equivalent expressions. *For example, apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3x; apply the distributive property to the expression 24x + 18y to produce the equivalent expression 6 (4x + 3y); apply properties of operations to y + y + y to produce the equivalent expression 3y*.  [CCSS.Math.Content.HSN.RN.B.3](http://www.corestandards.org/Math/Content/HSN/RN/B/3/) *Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.* |
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| **Bell Work** | Solve a quick quiz to refresh the concept of rational and irrational numbers. |

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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 1-1  What is the difference between rational numbers and real numbers?  How to identify real number properties. |

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