|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | Algebra 1 | **Topic** | U1 – Approximating Square Roots | **Lesson** | 5 | **Of** | 11 |

|  |  |
| --- | --- |
| **Objective** | Students will:   * Recognize if a number is a perfect square or not. * Define principal root. * Find the square root of a number. * Find two consecutive integers between which the given square root lies. * Determine two rational numbers with two decimal places between which the given square root lies. * Approximate the square root up to the third estimate by averaging |
|  |  |
| **“I Can” Statement** | I can determine the square root of a number.  I can approximate the square root of a number by finding consecutive integers or two rational numbers with two decimal places between which the square root lies.  I can approximate the square root of a number by averaging. |

|  |  |
| --- | --- |
| **Common Core Standards** | [CCSS.MATH.CONTENT.8.NS.A.2](http://www.corestandards.org/Math/Content/8/NS/A/2/) Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π2). *For example, by truncating the decimal expansion of √2, show that √2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations*. |

|  |  |
| --- | --- |
| **Bell Work** | See Bell Work 1-5 |

|  |  |
| --- | --- |
| **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. |

|  |  |
| --- | --- |
| **Assessment** | Bell Work 1-5  Assignment 1-5  Exit Quiz 1-5 |

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