

UNIT 1 - LESSON PLANS

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](#)

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., π^2). *For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ 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