**ARC Week at Glance**

**-Subject: Mathematics Course: Advance Algebra: Concepts & Connections Grade:** **10th – 12th Date: 12/2/2024**

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| **Standard(s):** AA.FGR.4.4 Create, interpret and solve radical equations with one unknown value and use them to solve problems that model real- world situations.  AA.FGR.4.3 Analyze and graph radical functions.  **Assessment(s):  Quiz  Unit Test  Project  Lab  None** | | | |
|  | **Learning Target**  **(I am learning about…)** | **Success Criteria**  **(I can….)** | **Lesson/Activities of the Day** | **Assignments/Formative Assessment** |
| **Monday** | I am learning about rational exponents.  I am learning about solving equations with radicals and rational exponents | I can express expression with rational exponents in radical form and evaluate them.  I can solve equations with square roots, cube roots and other roots algebraically | Introduction to Rational Exponents:  Teacher will review with the students how to solve and simplify rational exponents.  Teacher will provide guided practice problems over solving and simplifying rational exponents.  Students will then work on practice sheet over solving and simplifying rational exponents | Practice Sheet over Solving and Simplifying Rational Exponents |
| **Tuesday** | I am learning about rational exponents.  I am learning about solving equations with radicals and rational exponents | I can express expression with rational exponents in radical form and evaluate them.  I can solve equations with square roots, cube roots and other roots algebraically | Introduction to Rational Exponents Continued:  Teacher will review with the students how to solve and simplify rational exponents.  Teacher will provide guided practice problems over solving and simplifying rational exponents.  Students will then work on practice sheet over solving and simplifying rational exponents | Practice Sheet over Solving and Simplifying Rational Exponents |
| **Wednesday** | I am learning about rational exponents.  I am learning about solving equations with radicals and rational exponents | I can express expression with rational exponents in radical form and evaluate them.  I can solve equations with square roots, cube roots and other roots algebraically | Introduction to Rational Exponents Quick Quiz  Solving Equations with Radicals and Rational Exponents:  Teacher will discuss how to solve equations with radical and rational exponents.  Teacher will provide guided practice problems over radical and rational exponent problems.  Teacher will then have students work on their solving radicals and rational exponent practice sheet. | Practice Sheet over Solving and Simplifying Rational Exponents  Rational Exponents Quick Quiz  Solving Equations with Radicals Practice Sheet |
| **Thursday** | I am learning about rational exponents.  I am learning about solving equations with radicals and rational exponents | I can express expression with rational exponents in radical form and evaluate them.  I can solve equations with square roots, cube roots and other roots algebraically | Introduction to Rational Exponents Quick Quiz  Solving Equations with Radicals and Rational Exponents:  Teacher will discuss how to solve equations with radical and rational exponents.  Teacher will provide guided practice problems over radical and rational exponent problems.  Teacher will then have students work on their solving radicals and rational exponent practice sheet. | Practice Sheet over Solving and Simplifying Rational Exponents  Rational Exponents Quick Quiz  Solving Equations with Radicals Practice Sheet |
| **Friday** | I am learning about rational exponents.  I am learning about solving equations with radicals and rational exponents | I can express expression with rational exponents in radical form and evaluate them.  I can solve equations with square roots, cube roots and other roots algebraically | Quick Formative over Solving Equations with Radicals | Practice Sheet over Solving and Simplifying Rational Exponents  Rational Exponents Quick Quiz  Solving Equations with Radicals Practice Sheet  Formative over Solving Equations with Radicals |

**\*** Exit Ticket/Final Stretch Check  Electronic Tools  Dry Erase Boards – quick checks  Turn & Talk Discussion (verbal responses)  Teacher Observation – document Clipboard

Quick Write/Draw  Annotation  Extended Writing  Socratic Seminar  Jigsaw  Thinking Maps  Worked Examples  Other :\_\_\_\_\_\_\_\_\_\_\_