**ARC Week at Glance**

**-Subject: Mathematics Course: Algebra: Concepts & Connections Grade:** **9th – 12th Date: 11/11/2024**

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| **Standard(s):** A.PAR.4.1 - Create and solve linear inequalities in two variables to represent relationships between quantities including mathematically applicable situations; graph inequalities on coordinate axes with labels and scales.  A.PAR.4.2 - Represent constraints of linear inequalities and interpret data points as possible or not possible.  A.PAR.4.3 Solve systems of linear inequalities by graphing, including systems representing a mathematically applicable situation.  **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 to create two linear inequalities from real – world context  I am learning that a solution to two linear inequalities in two variables could involve not only points on a line but points of a region bounded by a line | I can create linear inequalities from real – world context  I can prove that a solution to a linear inequality in two variables could involve not only points on a line but that points of a region bounded by a line | Warm-Up:  Converting from Standard form to Slope-Intercept Form  Teacher will provide guided practice warm-up for converting standard form equations into slope-intercept form equations  Teacher will continue with GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task.  Teacher will discuss the following in the learning plan:  Graphing two linear inequalities on the coordinate plane  Finding solution region on the coordinate plane that satisfy both inequalities  Creating linear inequalities from real-world context  Finding solutions to the created linear inequalities created from real-world context | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task  Independent Practice over Converting Slope-Intercept to Standard Form and Finding Solutions to a System of Inequalities |
| **Tuesday** | I am learning to create two linear inequalities from real – world context  I am learning that a solution to two linear inequalities in two variables could involve not only points on a line but points of a region bounded by a line | I can create linear inequalities from real – world context  I can prove that a solution to a linear inequality in two variables could involve not only points on a line but that points of a region bounded by a line | Warm-Up:  Converting from Standard form to Slope-Intercept Form  Teacher will provide guided practice warm-up for converting standard form equations into slope-intercept form equations  Teacher will continue with GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task.  Teacher will discuss the following in the learning plan:  Graphing two linear inequalities on the coordinate plane  Finding solution region on the coordinate plane that satisfy both inequalities  Creating linear inequalities from real-world context  Finding solutions to the created linear inequalities created from real-world context  Students will then work on independent practice sheet over finding solutions to a system of inequalities and changing from standard form to slope-intercept form | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task  Independent Practice over Converting Slope-Intercept to Standard Form and Finding Solutions to a System of Inequalities |
| **Wednesday** | I am learning to create two linear inequalities from real – world context  I am learning that a solution to two linear inequalities in two variables could involve not only points on a line but points of a region bounded by a line | I can create linear inequalities from real – world context  I can prove that a solution to a linear inequality in two variables could involve not only points on a line but that points of a region bounded by a line | Warm-Up:  Converting from Standard form to Slope-Intercept Form  Teacher will provide guided practice warm-up for converting standard form equations into slope-intercept form equations  Teacher will continue with GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task.  Teacher will discuss the following in the learning plan:  Graphing two linear inequalities on the coordinate plane  Finding solution region on the coordinate plane that satisfy both inequalities  Creating linear inequalities from real-world context  Finding solutions to the created linear inequalities created from real-world context  Students will then continue working on independent practice sheet over finding solutions to a system of inequalities and changing from standard form to slope-intercept form | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task  Independent Practice over Converting Slope-Intercept to Standard Form and Finding Solutions to a System of Inequalities |
| **Thursday** | I am learning to create two linear inequalities from real – world context  I am learning that a solution to two linear inequalities in two variables could involve not only points on a line but points of a region bounded by a line | I can create linear inequalities from real – world context  I can prove that a solution to a linear inequality in two variables could involve not only points on a line but that points of a region bounded by a line | Warm-Up:  Converting from Standard form to Slope-Intercept Form  Teacher will provide guided practice warm-up for converting standard form equations into slope-intercept form equations  Teacher will continue with GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task.  Teacher will discuss the following in the learning plan:  Graphing two linear inequalities on the coordinate plane  Finding solution region on the coordinate plane that satisfy both inequalities  Creating linear inequalities from real-world context  Finding solutions to the created linear inequalities created from real-world context  Students will then continue working on independent practice sheet over finding solutions to a system of inequalities and changing from standard form to slope-intercept form | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 2) Task  Independent Practice over Converting Slope-Intercept to Standard Form and Finding Solutions to a System of Inequalities |
| **Friday** | I am learning to create two linear inequalities from real – world context  I am learning that a solution to two linear inequalities in two variables could involve not only points on a line but points of a region bounded by a line | I can create linear inequalities from real – world context  I can prove that a solution to a linear inequality in two variables could involve not only points on a line but that points of a region bounded by a line | Unit 2 Assessment over System of Linear Inequalities | Unit 2 Assessment |

**\***☐ 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