**ARC Week at Glance**

**-Subject: Mathematics Course: Algebra: Concepts & Connections Grade:** **9th – 12th Date: 10/28/2024**

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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. **Assessment(s):** [x]  **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 write and graph simple inequalitiesI am learning about linear inequalities on the coordinate planeI am learning 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 | I can write and graph simple inequalitiesI can graph linear inequalities on the coordinate planeI 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 | Teacher will review with the students how to solve and graph linear inequalities for their formative assessment on Wednesday* Teacher will review how to write and graph simple inequalities
* Teacher will review how to solve one step and two step linear inequalities
* Teacher will provide step by step explanation of how to solve linear inequalities
* Teacher will review how to graph linear inequalities on the coordinate plane
* Teacher will discuss key characteristics for solutions when graphing linear inequalities on the coordinate plane
 | Student Self-Made Study Guide |
| **Tuesday** | I am learning to write and graph simple inequalitiesI am learning about linear inequalities on the coordinate planeI am learning 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 | I can write and graph simple inequalitiesI can graph linear inequalities on the coordinate planeI 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 | Teacher will review with the students how to solve and graph linear inequalities for their formative assessment on Wednesday* Teacher will review how to write and graph simple inequalities
* Teacher will review how to solve one step and two step linear inequalities
* Teacher will provide step by step explanation of how to solve linear inequalities
* Teacher will review how to graph linear inequalities on the coordinate plane

Teacher will discuss how to create linear inequalities in one and two variables from real – world situations/context* Teacher will use “GADOE Inspire Learning Task: Graphing Linear Inequalities in Two Variables (Part 1)
* Teacher will discuss how to infer from word problems to find the key information needed to create the linear inequality
 | Student Self-Made Study GuideGADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 1) Task |
| **Wednesday** | I am learning to write and graph simple inequalitiesI am learning about linear inequalities on the coordinate planeI am learning 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 | I can write and graph simple inequalitiesI can graph linear inequalities on the coordinate planeI 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 | Formative Assessment over solving and graphing linear inequalitiesAfterwards, Teacher will discuss how to create linear inequalities in one and two variables from real – world situations/context* Teacher will use “GADOE Inspire Learning Task: Graphing Linear Inequalities in Two Variables (Part 1)

Teacher will discuss how to infer from word problems to find the key information needed to create the linear inequality | Formative Assessment over solving and graphing linear inequalitiesGADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 1) Task |
| **Thursday** | I am learning to write and graph simple inequalitiesI am learning about linear inequalities on the coordinate planeI am learning 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 | I can write and graph simple inequalitiesI can graph linear inequalities on the coordinate planeI 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 | Teacher will discuss how to create linear inequalities in one and two variables from real – world situations/context* Teacher will use “GADOE Inspire Learning Task: Graphing Linear Inequalities in Two Variables (Part 1)

Teacher will discuss how to infer from word problems to find the key information needed to create the linear inequality | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 1) Task |
| **Friday** | I am learning to write and graph simple inequalitiesI am learning about linear inequalities on the coordinate planeI am learning 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 | I can write and graph simple inequalitiesI can graph linear inequalities on the coordinate planeI 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 | Teacher will discuss how to create linear inequalities in one and two variables from real – world situations/context* Teacher will use “GADOE Inspire Learning Task: Graphing Linear Inequalities in Two Variables (Part 1)

Teacher will discuss how to infer from word problems to find the key information needed to create the linear inequalityAfterwards, students will complete the formative assessment from “GADOE Inspire Learning Task: Graphing Linear Inequalities in Two Variables (Part 1) | GADOE Inspire Learning Plan: Graphing Linear Inequalities in Two Variables (Part 1) Task |

**\***[ ]  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 :\_\_\_\_\_\_\_\_\_\_\_