|  |  |
| --- | --- |
| **I. LEARNING OUTCOMES** | **Instructional Materials:**CMP3 Comparing and Scaling Moving Straight Ahead**DL materials:** Accommodations will be provided based on individual student-based needs. Materials and classroom accommodations will be created and provided by a DL teacher. |
| **Enduring Understandings***After these five weeks, students will understand…** *Using Similarity to Find Measurements*
* *Scaling Ratios*
* *Construct tables, graphs and symbolic equations that represent linear relationships*
* *Translate information about linear relationships given in a contextual setting, a table, a graph or an equation to one of the other forms*
* *Recognize that y=mx represents a proportional relationship*
* *Solve problems and make decisions about linear relationships using information given in tables, graphs and equations*
 | **Essential Questions***To reveal their understanding, ask students…** How do ratios relate to similar figures?
* How can I use similar figures to find a missing side length?
* *What type of relationship is expressed in y=mx and how do you know?*
* *How do graphs and tables share the same information?*
* *How can you prove that two expressions are equivalent?*
* *How many unknowns are there in a linear equation?*
 |
| **Summative Assessments** | **Diagnostic/Pre-Assessments** |
| **Investigation 1 Quiz** **Investigation 2 Quiz** **Investigation 3 Quiz** **Unit Test**  | **Unit Readiness** **Pre-Assessment**  |
| **III. TEACHING PLAN**  | **Formative Assessments** |

|  |  |
| --- | --- |
| **Student Learning Goals***What standards/skills will students learn?* | **Student Learning Activities***To reach these goals, what will students do?* |
|
|  | 7.RP.A.2 Recognize and represent proportional relationships between quantities. 7.RP.A.2c Represent proportional relationships by equations. 7.RP.A.3 Use proportional relationships to solve multistep ratio and percent problems.  | Begin problems in Investigation 1 |
|  | 7.RP.A.3 Use proportional relationships to solve multistep ratio and percent problems. 7.EE.B.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple  | Investigation 1 Quiz and Investigation 2 |
|  | 7.RP.A.2c Represent proportional relationships by equations7.RP.A.2b Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.  | Investigation 2 |
|  | 7.RP.A.2d Explain what a point (x,y) on the graph of a proportional relationship means in terms of the situation with special attention to the points (0,0) and (1,r), where r is the unit rate. 7.RP.A.2c Represent proportional relationships by equations | Complete Investigation 2 |
|  | 7.EE.A.1 Apply properties of operations as strategies to add, subtract, factor and expand linear expressions with rational coefficients. 7.EE.AA.2 Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.  | Investigation 3 and 4 |

|  |  |
| --- | --- |
| 7.RP.A.2d Explain what a point (x,y) on the graph of a proportional relationship means in terms of the situation with special attention to the points (0,0) and (1,r), where r is the unit rate. 7.EE.B.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computations and estimation strategies.  | Complete Investigation 4 and Unit Test  |