## 6 $^{\text {th }}$ Grade Math Curriculum Mapping 2017-2018 - Horn

| Unit | Overarching Question | Essential Questions |  | Big Ideas |  | Full Objectives |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unit 1: <br> Rational Numbers <br>  <br> Timing <br> 5-6 weeks | How do we work with rational numbers in real-world situations? | 1. | How can number |  | Factors and multiples can be used to find relationships between numbers. | 6.N.1.1 Represent integers with counters and on a number |
|  |  |  | relationships help | 3. | fractions, decimals, and percents. Positive rational numbers in | line and positive rational numbers on a number line, |
|  |  |  | with problem | 4. | and ordered. | recognizing the concepts of opposites, direction, |
|  |  | 2. | solving? |  | numbers can be multiplied and divided. | and magnitude; use integers and rational numbers in real- |
|  |  |  | What is the |  |  | world and mathematical situations, explaining the meaning |
| Objectives |  |  | relationship between |  |  | of 0 in each situation. |
|  |  |  | fractions, decimals, |  |  | 6.N.1.2 Compare and order positive rational numbers, |
| 6.N.1.1 |  |  | and percents? |  |  | represented in various forms, or integers using the symbols |
| $6 . \mathrm{N.1.2}$ |  | 3. | How does comparing |  |  | <, >, and =. |
| 6.N.1.3 |  |  | numbers describe |  |  | 6.N.1.3 Explain that a percent represents parts "out of 100 " |
| 6.N.1.4 |  |  | their relationship? |  |  | and ratios "to 100". |
| 6.N.1.5 |  | 4. | How can operations |  |  | 6.N.1.4 Determine equivalencies among fractions, |
| 6.N.1.6 |  |  | with rational numbers |  |  | decimals, and percents. Select among these representations |
| 6.N.2.1 |  |  | help solve real world |  |  | to solve problems. |
| 6.N.2.2 |  |  | problems? |  |  | 6.N.1.5 Factor whole numbers and express prime and |
| 6.N.2.3 |  |  | How can we use a |  |  | composite numbers as a product of prime factors with |
| 6.N.4.1 |  |  | variety of models to |  |  | exponents. |
| 6.N.4.2 |  |  | understand rational |  |  | 6.N.1.6 Determine the greatest common factors and least |
| $6 . \mathrm{N.4.3}$ |  |  | numbers? |  |  | common multiples. Use common factors and multiples to |
| 6.N.4.4 |  |  |  |  |  | calculate with fractions, find equivalent fractions and |
|  |  |  |  |  |  | express the sum of two-digit numbers with a common |
|  |  |  |  |  |  | factor using the distributive property. |
|  |  |  |  |  |  | 6.N.2.1 Estimate solutions to addition and subtraction of |
|  |  |  |  |  |  | integers problems in order to assess the reasonableness of |
|  |  |  |  |  |  | results. |
|  |  |  |  |  |  | 6.N.2.2 Illustrate addition and subtraction of integers using |
|  |  |  |  |  |  | a variety of representations. |
|  |  |  |  |  |  | 6.N.2.3 Add and subtract integers; use efficient and |
|  |  |  |  |  |  | generalizable procedures including but not limited to |
|  |  |  |  |  |  | standard algorithms. |
|  |  |  |  |  |  | 6.N.4.1 Estimate solutions to problems with whole |







"Assessment is standards based, and includes a variety of methods that guide instruction and inform instructional decisions. Student-centered assessment motivates, encourages and inspires students' passion for learning when it is delivered in a timely and reasonable manner and includes purposeful feedback."1 Students grade their own daily assignments with feedback given when they are unsure where they went wrong. Students will be informally assessed by tracking their own progress in their composition notebooks through the 4-0 Marzano's Performance Scale incorporated with Bloom's Taxonomy - analysis, application, comprehension, recognition and no knowledge. Students will be formally assessed through formative - daily assignments and quizzes and summative - unit tests and semester tests - assessment percentages.

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[^0]:    ${ }^{1}$ Scottsdale, Arizona Assessment Statement

