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**Unit 2: Exponents**

Students will explore and understand that there are numbers that are not rational, called irrational numbers, and will approximate their value by using rational numbers. Clear understanding of irrational numbers will be demonstrated using models, number lines, and expressions of estimates and approximations. Students will work with radicals and express very large and very small numbers using integer exponents.

**21% of the GMAS**

**Some calculator use**

**26 days or about 4 weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
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| 5 | 6**First Day of School**Expectations, ice breakers,  | 7 **Unit 2 Part 1 – Exponents** | 8 | 9 | 10 | 11 |
|  |  |  |  |  |
| 12 | 13 | 14 | 15**Unit 2 Part 1 – Exponents** | 16 | 17 | 18 |
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| 19 | 20 | 21**Unit 2 Part 1 – Exponents** | 22 | 23 | 24 | 25 |
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| 26 | 27**Unit 2 Part 1 – Exponents** | 28 | 29 | 30 | 31 |  |
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**Unit 3: Geometric Applications of Exponents**

Students will extend their work with irrational numbers by applying the Pythagorean Theorem to situations involving right triangles, including finding distance. Proof of the Pythagorean Theorem and its converse allow students to demonstrate understanding of the theorem. Real-world problems are solved involving volume of cylinders, cones, and spheres.

**20% of the GMAS**

**Calculator use ok**

**13 days or about 3weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
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|  |  |  |  |  |  |
| 2 | 3Labor Day | 4 | 5 | 6 | 7**Unit 2 Part 2 – Equations** | 8 |
|  | **Teacher Professional Learning/In Service** |  |  |  |  |
| 9 | 10 | 11**Unit 2 –Part 2 Extend/Review/Assess/Reteach****Unit 2 Part 2 – Equations** | 12 | 13 | 14**Unit 3 – Geometric Applications of Exponents** | 15 |
|  |  |  |  |  | **Comprehensive Test** |  |
| 16 | 17 | 18 | 19 | 20**Unit 3 – Geometric Applications of Exponents** | 21 | 22 |
|  |  |  |  |  |  |  |
| 23/30 | 24 | 25 | 26**Unit 3 – Geometric Applications of Exponents** | 27 | 28**Unit 3 - Extend/Review/Assess/Reteach** | 29 |
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 **Unit 4: Functions**

The fourth unit introduces students to relations and functions, and defines a function as a relation whose every input corresponds with a single output. From this understanding, students define, evaluate, and compare functions. Functions are described and modeled using a variety of representations, including algebraically, graphically, numerically in tables, and verbally.

**11% of the GMAS**

**Calculator use ok**

**12 days or about 2 weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  | 1 | 2 | 3**Unit 4 – Functions** | 4 | 5 | 6 |
|  |  |  |  |  |  |  |
| 7 | 8 | 9 | 10**Unit 4 – Functions** |  **11****Teacher Professional Learning/In Service** | **12****Fall Break** | 13 |
|  |  |  |  |  |
| 14 | 15**Unit 4 – Functions** | 16 | 17 | 18 | 19**Unit 4 - Extend/Review/Assess/Reteach** | 20 |
|  |  |  |  |  |  |
| 21 | 22 | 23 | 24**Unit 5 – Linear Functions** | 25 | 26**Comprehensive Test** | 27 |
|  |  |  |  |  |  |  |
| 28 | 29 | 30**Unit 5 – Linear Functions** | 31 |  |  |  |
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**Unit 5: Linear Functions**

In unit five, functions are further explored, focusing on the study of linear functions. Students will understand the connections between proportional relationships, lines, and linear equations, and solve mathematical and real-life problems involving such relationships. Slope is formally introduced, and students work with equations for slope in different forms, including comparing proportional relationships represented in different ways (graphically, tabular, algebraically, verbally).

**25% of the GMAS**

**Calculator use ok**

**20 days or about 4 weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  | 1 | 2**Unit 5 – Linear Functions** | 3 |
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| 4 | 5 | 6 | 7**Unit 5 – Linear Functions** | 8 | 9 | 10 |
|  |  |  |  |  |  |  |
| 11 | 12 | 13 | 14 | 15**Unit 5 – Linear Functions** | 16**Unit 5 - Extend/Review/Assess/Reteach****Unit 6 – Linear Models and Tables** | 17 |
|  |  |  |  |  |  |  |
| 18 | 19 | 20 | 21 | 22 | 23**Thanksgiving Holiday** | 24 |
|  |  |  |  |  |  |  |
| 25 | 26 | 27 | 28 | 29**Unit 7 – Solving Systems of Equations** | 30**Comprehensive Test** |  |
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**Unit 7: Solving Systems of Equations**

The final unit broadens the study of linear equations to situations involving simultaneous equations. Using graphing, substitution, and elimination, students learn to solve systems of equations algebraically, and make applications to real-world situations.

**17% of the GMAS**

**Calculator use ok**

**16 days or about 4 weeks**

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| 2 | 3 | 4 | 5**Unit 7 – Solving Systems of Equations** | 6 | 7 | 8 |
|  |  |  |  |  |  |  |
| 9 | 10 | 11**Unit 7 – Solving Systems of Equations** | 12 | 13 | 14 | 15 |
| 16 | 17**Unit 7 - Extend/Review/Assess/Reteach****Benchmark** | 18 | 19  | **20****End of First Semester** | **21** | 22 |
| 24/31 | 25 | 26 | 27 | 28**Semester Break (December 21 January 2)** | 29 | 30 |

**Unit 6: Linear Models and Tables**

Students will extend the study of linear relationships by exploring models and tables. They will use functions to model relationships between quantities and describe the rate of change. The study of statistics expands from more simplistic samples and collections in sixth and seventh grade, to bivariate data, which can be graphed and a line of best fit determined.

**11% of the GMAS**

**Calculator use ok**

**20 days or about 4 weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  | 1 | 2 | **3** | **4** | 5 |
|  |  | **Semester Break** |  | **Teacher Professional Learning/In Service** |  |
| 6 | **7****First Day of Semester** | 8 | 9**Review first semester based on Benchmark results** | 10 | 11 | 12 |
|  |  |  |  |  |
| 13 | 14 | 15 | 16 | 17**Unit 6 – Linear Models and Tables** | 18 | 19 |
|  |  |  |  |  |  |  |
| 20 | **21****MLK Birthday** | 22 | 23 | 24 | 25**Unit 6 – Linear Models and Tables** | 26 |
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| 27 | 28 | 29 | 30**Unit 6 – Linear Models and Tables** | 31 |  |  |
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**Unit 1 – Transformations, Congruence, & Similarity**

**Unit 1: Transformations, Congruence, & Similarity**

The first unit centers around geometry standards related to transformations – translations, reflections, rotations, and dilations, both on and off the coordinate plane – and the notion of congruence and similarity. Students will understand congruence and similarity using physical models, transparencies, or geometry software. Students learn to use informal arguments to establish proof of angle sum and exterior angle relationships related to parallel lines and two dimensional polygons.

**17% of the GMAS**

**Calculator use ok**

**20 days or about 4 weeks**

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  |  | 1**Comprehensive Test** | 2 |
|  |  |  |  | **Unit 6 – Linear Models and Tables** | **Unit 6 – Linear Models and Tables** |  |
| 3 | 4 | 5**Unit 6 – Linear Models and Tables** | 6 | 7 | 8 | 9 |
|  |  |  |  | **Unit 6 - Extend/Review/Assess/Reteach** |  |  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|  | **Unit 1 – Transformations, Congruence, & Similarity** |  |  |  |  |  |
| 17 |  **18 19****Winter Break** | 20 | 21 | 22**Unit 1 – Transformations, Congruence, & Similarity** | 23 |
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| 24 | 25 | 26 | 27 | 28 |  |  |

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  |  | 1**Unit 1 – Transformations, Congruence, & Similarity** | 2 |
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| 3 | 4 | 5 | 6**Unit 1 – Transformations, Congruence, & Similarity** | 7 | 8 | 9 |
|  |   |  |  |  |  |  |
| 10 | 11**Unit 1 – Transformations, Congruence, & Similarity** | 12 | 13 | 14**Comprehensive Test** | 15**Teacher Professional Learning** | 16 |
|  |  |  |  |  |  |
| 17 | 18 | 19**Unit 1 – Transformations, Congruence, & Similarity** | 20 | 21 | 22**Unit 1 - Extend/Review/Assess/Reteach** | 23 |
|  |  |  |  |  |  |  |
| 24/31 | 25 | 26 | 27 | 28**GA Milestones EOG Review** | 29 | 30 |
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| Sunday**Units of Instruction****Assessments**EOG April 16th-May 1st EOC April 29th-May 10th   | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  | 1 | 2 | 3 | 4**GA Milestones EOG Review** | 5 | 6 |
|  |  |  |
| 7 | **8** | **9** | **10** | **11** | **12** | 13 |
|  | **Spring Break (April 8-12)** |  |
| 14 | 15 | 16 | 17**GA Milestones EOG**  | 18 | 19 | 20 |
|  |  |  |  |  |  |  |
| 21 | 22**GA Milestones EOG**  | 23 | 24 | 25 | 26 | 27 |
|  |  |  |  |  | Movie Day |  |
| 28 | 29 | 30**GA Milestones EOC Remediation** |  |  |  |  |
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| Sunday**Units of Instruction**Math remediation/AccelerationPossible Retest Dates: May 14-18, 2018 | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  | **GA Milestones EOC Remediation/Acceleration** |  | 1 | 2 | 3 | 4 |
|  |  |  |  |  |  |  |
| 5 | 6**Enrichment Curricula****GA Milestones EOC Remediation/Acceleration****GA Milestones Re-Test or Enrichment Curricula** | 7 | 8 | 9 | 10 | 11 |
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| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  |  |  |  |  |  |  |
| 19 | 20 | 21 | 22 | 23 | 24**Post Planning** | 25 |
|  |  |  |  | **Last Day of School** |  |
| 26 | 27 | 28 | 29 | 30 | 31 |  |
|  | **Memorial Day** |  |  |  |  |  |
|  |  |  |  |  |  |  |