



Math Models
Year at a Glance (YAG)
2021-2022



| First Semester | | Second Semester | |
|---|---|---|--|
| 1st Nine Weeks – 40 days (August 19 th – October 15 th) (September 2 nd – Labor day – No School) (October 14 th – Staff Development) | | 3rd Nine Weeks – 45 days (January 6 th – March 17 th) (January 20 th – MLK – No School) (March 9 th – 13 th – Spring Break) | |
| TEKS 2A.1A, 2A.1B,2A.1C, 2A.1D, 2A.1E, 2A.1F, 2A.1G | Unit 1: Tools of Algebra, solving equations and inequalities Students will apply mathematics to problems arising in everyday life. Students will also use problem solving models to analyze given information. Students will select tools and techniques to use as appropriate to solve every day real world problems. RTI Day | 2A.1A, 2A.1B, 2A.1C, 2A.1D, 2A.1E, 2A.1F, 2A.1G, 2A.2D, 2A.7I, 2A.8A, 2A.8B, 2A.8C, 2A.4C, 2A.6C | Unit 2: Linear Relations and functions (finish) Students will use the composition of two functions to determine if the functions are inverses of one another. Students will also be able to write the domain and range of a function in interval notation and inequalities and set notation. Unit 3: Parent Function Transformations Students will be able to evaluate a parent function and identify the horizontal/vertical shifts in the graph along with any dilations to the graph. Students will also analyze mathematical relationships to connect and communicate mathematical ideas from the parent functions. |
| 2nd Nine Weeks – 43 days (October 16 th – December 20 th) (November 25 th – 29 th – Thanksgiving Break) (December 23 rd – January 3 rd – Holiday Break) | | 4th Nine Weeks – 45 days (March 18 th – May 21 st) (April 10 th – Good Friday – No School) (April 24 th – Battle of Flowers – No School) (May 25 th – Memorial Day – No School) | |
| TEKS 2A.6D, 2A.6E, 2A.6F, 2A.7I 2A.1A, 2A.1B, 2A.1C, 2A.1D, 2A.1E, 2A.1F, 2A.1G, 2A.2D, 2A.7I, 2A.8A, 2A.8B, 2A.8C | Unit 1: Tools of Algebra, solving equations and inequalities Students will formulate absolute value linear equations and then solve them. Unit 2: Linear Relations and functions (start) Students will analyze mathematical relationships to connect and communicate ideas. The student will also be able to predict and make critical decisions based off a given set of data. 4 Days of Semester Exams RTI Day | TEKS 2A.1A, 2A.1B, 2A.1C, 2A.1D, 2A.1E, 2A.1F, 2A.1G, 2A.3A, 2A.3C, 2A.3E, 2A.3F, 2A.3G 2A.4A, 2A.4B , 2A.4D,2A.2E, 2A.4F, 2A.4H,2A.6A, 2A.6B, 2A.7A,2A.7I, 2A.8A, 2A.8B, 2A.8C | Unit 4: Systems of Equations/Matrices and Inequalities Students will be able to solve systems of two or more linear equations/inequalities in two variables. Unit 5: Quadratic Functions Students will be able to write the quadratic function given three specified points in the plane. Unit 6: Exponential Functions Students will be able to formulate exponential equations that model real world situations. RTI DAY Semester Exams (4 Days) |

Resources

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|----------------|----------------|----------------|----------------|
| 1st Nine Weeks | 2nd Nine Weeks | 3rd Nine Weeks | 4th Nine Weeks |
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