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

| First Semester | | Second Semester | |
|---|---|---|---|
| **1st Nine Weeks – 40 days**<br>(August 19th – October 15th)<br>*(September 2nd – Labor day – No School)*<br>*(October 14th – Staff Development)* | | **3rd Nine Weeks – 45 days**<br>(January 6th – March 17th)<br>*(January 20th – MLK – No School)*<br>*(March 9th – 13th – Spring Break)* | |
| **TEKS**<br>**2A.1A, 2A.1B,2A.1C, 2A.1D, 2A.1E, 2A.1F, 2A.1G** | **Unit 1: Tools of Algebra, solving equations and inequalities**<br>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.<br><br>**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)**<br>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.<br><br>**Unit 3: Parent Function Transformations**<br>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**<br>(October 16th – December 20st)<br>*(November 25th – 29th – Thanksgiving Break)*<br>*(December 23rd – January 3rd – Holiday Break)* | | **4th Nine Weeks – 45 days**<br>(March 18th – May 21rd)<br>*(April 10th – Good Friday – No School)*<br>*(April 24th – Battle of Flowers – No School)*<br>*(May 25th – Memorial Day – No School)* | |
| **TEKS**<br>**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**<br>Students will formulate absolute value linear equations and then solve them.<br><br>**Unit 2: Linear Relations and functions (start)**<br>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.<br><br>**4 Days of Semester Exams**<br><br>**RTI Day** | **TEKS**<br>**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**<br>Students will be able to solve systems of two or more linear equations/inequalities in two variables.<br><br>**Unit 5: Quadratic Functions**<br>Students will be able to write the quadratic function given three specified points in the plane.<br>**Unit 6: Exponential Functions**<br>Students will be able to formulate exponential equations that model real world situations.<br><br>**RTI DAY**<br><br>**Semester Exams (4 Days)** |

Resources

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

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