

STEM and Algebra 1 Pacing 2016-2017

Weeks

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| 1 st 9-weeks | 1 | BASIC GRAPHS – linear, quadratic, exponential, constant, sq.root, cubic |
| | 1 | Mod 8.2 – Frequency – percents & decimals |
| | 1 | Mod 1 – Quantitative Reasoning – solve eqs, model, prec & accuracy |
| | 1 | Mod 9 – Central Tendency – mean, median, mode, range |
| | 2 | Mod 2 – Algebraic Models – create/solve eqs, literal, polynomials |
| | 2 | Mod 3 – Functions & Models – relations, functions, graphing |
| | 1 | Mod 4 – Patterns & Arithmetic Sequences (Population studies) |

1st 9 weeks: STEM Project Based Learning assignments to be determined. Within these projects, the above math concepts will be reinforced as well as science concepts of Energy and Motion.

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| 2 nd 9-weeks | 1.4 | Mod 5 – Linear Functions – intercepts, slope |
| | 1.5 | Mod 6 – Forms of Linear Eqs – Slope/intercept, Point/slope, Standard |
| | 1.5 | Mod 7 – Linear Eqs & Intercepts – model, create & solve eqs, inequals in 2 variables |
| | 1 | Mod 10 – Modeling & Regression – correlation coeff, graph scatterplots |
| | 1.5 | Mod 11 – Solve Systems – Elimination, Graph, Substitution |
| | 1.5 | Mod 12 – Modeling Linear Systems – Create, Graph, Elimination, Substit, |

1 Mod 13 – Piecewise (Linear) Functions

2nd 9 weeks: STEM Project Based Learning assignments to be determined. Within these projects, the above math concepts will be reinforced as well as science concepts of Electricity and Magnetism.

Weeks Instruction

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| 3 rd 9-weeks | 1 | Mod 17 – Adding/Subtracting Polynomials |
| | 1 | Mod 18 - Multiplying/Dividing Polynomials |
| | 1 | Mod 19 – Quadratic Graphing (Vertex & Standard forms) |
| | 1 | Mod 20 – Quadratics Connecting Zeros, Intercepts & Factors |
| | 2 | Mod 21 – Using Factors to Solve Quadratics – x^2 and ax^2 |
| | 2 | Mod 22 – Square Roots to Solve Quadratics – Quad formula, Complete Sq. |
| | 1 | Mod 23 – Modeling with Quadratics |

3rd 9 weeks: STEM Project Based Learning assignments to be determined. Within these projects, the above math concepts will be reinforced as well as science concepts of Interactions of Matter.

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| 4 th 9-weeks | 1 | Mod 14 – Exponents & Radicals – simplify rational exponents |
| | 1.5 | Mod 15 – Geometric Sequences & Exponential Functions |
| | 1.5 | Mod 16 – Exponential Eq. & Modeling – Growth & Decay |
| | 1 | Mod 8 – Multi Variable Data – Frequency & Probability |

- 2 Mod 9 – 1-Variable Data – Normal distrib, Histograms, Box Plots, Mean, Med, Model
- 1 Mod 24 – Most of this was covered in the Basic Graph section in 1st 9-weeks – graph non-linear functions

3rd 9 weeks: STEM Project Based Learning assignments to be determined. Within these projects, the above math concepts will be reinforced as well as science concepts of Human/Earth systems Interactions.