Figure 8.18. Math Planning Calendar

Unit: Beyond Linear: Working with Polynomials

Duration: 4weeks

Monday	Tuesday	Wednesday	Thursday	Friday
Date 10/24 Discovering polynomials - Concept Attainment Intro - Cutting Pizzas? - Roll Dice, build polynomial, table, etc. - Vocabulary?	Date 10/25 Working with polynomials: Review the stuff we know - Addition / Subtraction review - Algebra tiles - Define terms with "what" and "how many" - Multiplication (algebra tiles and binomial distributive) - Analogous to the integers	Date 10/26 More Multiplying polynomials - Area / box models - Lattice - Distributive property Binomial Expansion and Pascal's triangle	Date 10/27 Dividing polynomials - Algebra tiles - Inverse Lattice - Long Division If time: Begin or introduce practice stations	Date 10/28 Practice, Practice, Practice - Paired worksheet with common answers (required for all) - Stations on add/sub; mult; div Closing: LP summarization on operations
Date 10/31 Synthetic Division Introduce remainder theorem Factoring as division Factor Patterns	Date 11/1 Applying factoring patterns to Pythagorean Triples Operations Quiz	Date 11/2 More factoring Solving for 0 Introduce Ps and Qs (Rational Root Theorem)	Date 11/3 Solving polynomial equations	Date 11/4 Graphing - End Behaviors - Zeros and roots - Transformations - Degrees and roots
Date 11/7 Stations	Date 11/8 Modeling with	Date 11/9 QUEST!!	Date 11/10 More graphing…	Date 11/11 Fundamental

- Division with Ps and Qs (Long or synthetic) - More factoring practice - Equation solving with Real solutions - Graphing	Polynomials (Interest differentiation to choose the modeling context)	- Arithmetic - Remainder Theorem - Graphing - Interpreting models	- Imaginary roots - Complex numbers - Quadratics with Imaginary factors (Review)	Theorem of Algebra and Descartes's rule of signs
Date 11/14 More graphing practice and analyzing graphs of polynomials	Date 11/15 More modeling with Polynomials	Date 11/16 Stations (choose 2) - Review operations - Review graphing - Review solving equations - Review complex numbers - Review factoring - Finish modeling applications	Date 11/17 Game Day to Review for test	Date 11/18 Unit Test