Honors Math 3 Ms. J. Blackwell, nbct



https://sites.google.com/site/blackwellsbutterflyworld/home

Unit 3 – Polynomial Functions



Day	Date	Topic	Homework			
1	10/7 Mon	L1 Patterns (October 7* – National Chocolate Covered Pretzel & Frappe Day)	L1 Set # 10 - 15 & WS Recursive & Explicit			
2	10/8 Tues	L2 + - * Polynomials & Pascal's Triangle (October 8* - National Pierogi Day)	L2 # 1 - 7, L2 SG # 15 - 20, WS Pascal, & WS On-line Patterns			
3	10/9 Wed	Workday (October 9th – National Moldy Cheese Day)				
3	10/10 Thurs (Due Dates are on the Website.)	L3 Pascal's Triangle & Long Divisio n(October 10 th - National Angel Food Cake & Cake Decorating Day)	L3 #1 - 5abcd, (5) Polynomial Cube Problems = Google Classroom due Mon, On - line Pattern Video Clip, & Graded HW #4 = Birthday #1			
4	10/11 Fri	Quiz (October 11 ^h – National Sausage Pizza Day) (October 12 ^h – National Gumbo Day) J. Gumbo's	Thurs' HW			

Assignments are due the day before or the morning of a pre-planned Absence / Field Trip. Anyone checking into school after math class will need to turn in assignments by the end of the school day. Thank You!

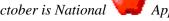










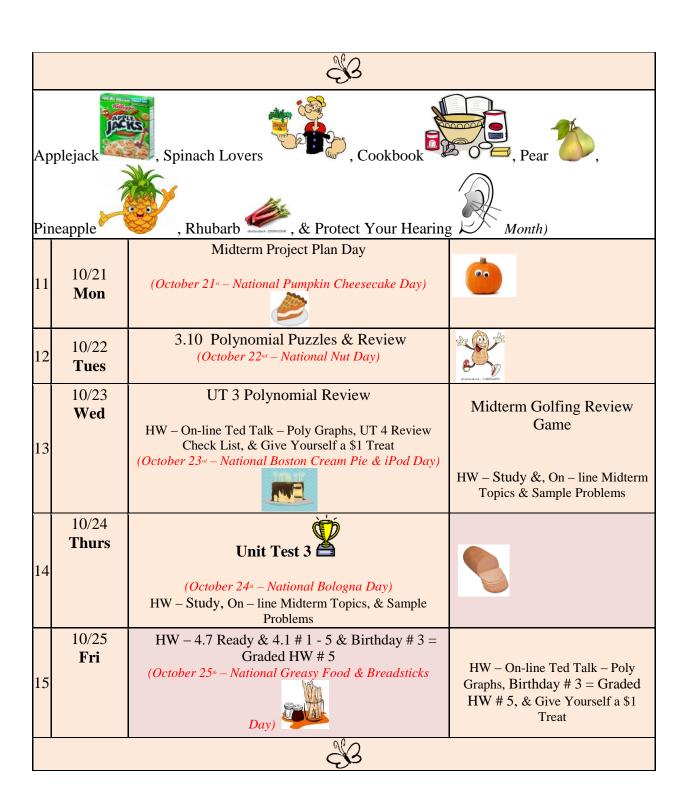


Family Table Eat Better – Eat Together,

Eat Together, Popcorn Popp



6	10/14 Mon (Due Dates are on the Website.)	L3 - L4 Long Division & Polynomial Roots (October 14* – National Dessert & Columbus Day)	L4 # 1 - 9, L4 R5 # 3, 4, 11, 12, 16, & Columbus Go # 1
7	10/15 Tues	L5 Factoring Polynomials (October 15th – National Cheese Curd Day)	Study, L5 # 1 - 4, L5 RSG, Sheldon's Spot Data, & Birthday - Part 1
8	10/16 Wed	L6 End Behavior, Even, & Odd Functions (October 16* – National Dictionary & Boss Day) BOSS'S DAY	L6 Part II # 1, 2, 4, 12, 13, 14, L6 RSG Even, & 21
9	10/17 Thurs	L7 Polynomial Review (October 17* – National Pasta Day)	On-line CW # 1, 2, 3, 4 = Take Notes, & Birthday - Part 2 = GH # 4
10	10/18 Fri	Quiz (October 18 th – National Chocolate Cupcake Day) (October 19 th – National Sweetness & Seafood Bisque Day)	Thurs' HW & Birthday - Part 2



16	10/28 Mon or 10/29	Midterm Exam (TBD) (October 28 th – National Chocolate Day)	(TBD)		
	Tues				

Unit 3 —Honors Math 3 — Standards "Polynomial Functions"

NC.M3.A- SSE.1ab	Interpret expressions that represent a quantity in terms of its context. a. Identify and interpret parts of a piecewise, absolute value, polynomial, exponential and rational expressions including terms, factors, coefficients, and exponents. b. Interpret expressions composed of multiple parts by viewing	
	one or more of their parts as a single entity to give meaning in terms of a context.	
NC.M3.A-CED.2	Create and graph equations in two variables to represent absolute value, polynomial, exponential and rational relationships between quantities.	
NC.M3.F-IF.4	Interpret key features of graphs, tables, and verbal descriptions in context to describe functions that arise in applications relating two quantities to include periodicity and discontinuities.	
NC.M3.F-IF.7	Analyze piecewise, absolute value, polynomials, exponential, rational, and trigonometric functions (sine and cosine) using different representations to show key features of the graph, by hand in simple cases and using technology for more complicated cases, including: domain and range; intercepts; intervals where the function is increasing, decreasing, positive, or negative; rate of change; relative maximums and minimums; symmetries; end behavior; period; and discontinuities.	
NC.M3.N-CN.9	Use the Fundamental Theorem of Algebra to determine the number and potential types of solutions for polynomial functions.	
NC.M3.A-APR.2	Understand and apply the Remainder Theorem.	
NC.M3.A-APR.3	Understand the relationship among factors of a polynomial expression, the solutions of a polynomial equation and the	
NC.M3.A-APR.6	± 7 ±	
	Rewrite simple rational expressions in different forms; write $a(x)/b(x)$ in the form $q(x) + r(x) b(x)$, where $a(x)$, $b(x)$, $q(x)$, and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$.	

NC.M3.F-BF.1	Write a function that describes a relationship between two quantities.
NC.M3.F-BF.1a	a. Build polynomial and exponential functions with real solution(s) given a graph, a description of a relationship, or ordered pairs (include reading these from a table).
NC.M3.F-BF.3	ordered pairs (metade reading these from a table).
	Extend an understanding of the effects on the graphical and tabular representations of a function when replacing $f(x)$ with $k \cdot f(x)$, $f(x) + k$, $f(x + k)$ to include $f(k \cdot x)$ for specific values of k (both positive and negative)
NC.M3.F-LE.3	Compare the end behavior of functions using their rates of change over intervals of the same length to show that a quantity increasing exponentially eventually exceeds a quantity increasing as a polynomial function.

Unit 3 – Honors Math 3 – Formative **Assessment Chart** "Polynomial Functions"

Keep track of your concept progress by checking the appropriate box as we go through the unit

	I Can	Know a little	Need Practice	I Got it!
1	Identify a cubic function from the rate of change.)	
2	Describe the features of $(x) = x_3$.			
3	Graph cubic functions in the form: $f(x) = a(x - h)^3 + k$			
4	Describe the similarities and differences between cubic functions and quadratic functions.			
5	Add polynomials both algebraically and graphically.			
6	Subtract polynomials both algebraically and graphically.			
7	Multiply polynomials using the distributive property.			
8	Use Pascal's Triangle to raise a binomial to a power.			
9	Use the Fundamental Theorem of Algebra to determine how many roots a polynomial has.			
10	Write a polynomial in factored form, given the roots of the polynomial.			
11	Find the other roots of a polynomial given a factor or root.			
12	Describe pairs of irrational or imaginary roots of polynomials.			
	Determine the end behavior of a polynomial of a given degree.			