## Honors Math 3 <br> Ms. J. Blackwell, nbet

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

| Unit 2 - Inverses \& Exponential Functions |  |  |  |
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| (September is also National |  |  |  |
| Day | Date | Topic | Homework |
| 1 | 9/16 <br> Mon <br> (Due Dates are on the Website.) | L2 \& L6 Skid Marks \& Regression Activity <br> (September $16^{\text {th }}$ - National Cinnamon Raisin <br> Bread \& Play Dough Day) | L2 All, L6 RSG Even, \& Graded HW \# 3 = Skid Mark Lab due Sept $18^{\text {th }}$ |
| 2 | $\begin{aligned} & 9 / 17 \\ & \text { Tues } \end{aligned}$ | L3 - Investigating Inverse Functions (September $17^{\text {th }}$ - National Apple Dumpling Day) | L3 RSG Odd \& Pokemon Project |
| 3 | $\begin{aligned} & 9 / 18 \\ & \text { Wed } \end{aligned}$ | L1 \& L6 Number Tricks \& Inverse Functions <br> (September $18^{\text {th }}$ - National Cheeseburger Day) | L1 SG Odd, L6 Set, \& L6 <br> Go Even |
| 4 | 9/19 <br> Thurs | L4 - Cataloging Logarithms \& Exponential Rules (September $19^{\text {th }}-$ National Butterscotch Pudding Day) | L4 \# 9-12, L4 Ready, Set \# 10, 12, 17 - 21 |
| 5 | $\begin{gathered} \text { 9/2 } \\ \mathbf{F r i} \end{gathered}$ | Quiz <br> (September $20^{\text {th }}-$ National String Cheese, Pepperoni Pizza, Fried Rice, \& Punch Day) | L5 \# 1-6, Set \# 13 |

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| 4 | $\begin{aligned} & 9 / 23 \\ & \text { Mon } \end{aligned}$ | L7/L9 Change of Base, Logarithmic Graphs, \& Types of Exp/Log Equations (September $23^{r d}$ - National American Pot <br> Pie, Snack on a Stick $\text { Day } \text { 1st day of Autumn }$ | Exp/Log Graphing Foldable, Smile at 3 People, Project, \& (Cookie, Napkin, \& Juice Box/Pouch = Fri) |
| 5 | 9/24 <br> Tues | L8 Solving Logarithmic Equations \& Logarithmic Rules <br> (September $24^{\text {th }}-$ National Cherries Jubilee \& Punctuation Day) | L8 Set \# 15-21 Odd and L8 Go \# 26, 29 <br>  <br> \& @ M/1 <br> () []? $\mathrm{H} \rightarrow$ <br>  |
| 6 | $\begin{aligned} & 9 / 25 \\ & \text { Wed } \end{aligned}$ | L7, L10, \& L11 Solving Exponential Equations <br> (September $25^{\text {th }}-$ National Lobster \& Math Storytelling Day) $\begin{aligned} & \sqrt{-1} \bigcirc \\ & \text { Math } \end{aligned}$ | Study, L7 Ready \# 1 6, and L10 Set \# 9 15 Odd |
| 7 | $\begin{gathered} 9 / 26 \\ \text { Thurs } \end{gathered}$ | Quiz <br> (September $26^{\text {th }}$ - National Pancake \& Dumpling Day) | Wed's HW \& Give Yourself a \$1 Treat |
| 8 | $\begin{gathered} 9 / 27 \\ \text { Fri } \end{gathered}$ | L7 - L9 Exponential \& Logarithmic Word Problems (September 27 ${ }^{\text {th }}-$ National Chocolate Milk, Scarf, \& Corned Beef Hash Day) | L9 \# 1-4 $\& S G \# 17-21$ |
|  |  | mber $28^{\text {th }}$ - National NC \& Strawberry Crème Pie Day) |  |

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\& Have a Good Day! Ms. J. Blackwell, nbct

| $\Leftrightarrow 3$ |  |  |  |
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| 4 | $\begin{aligned} & \hline 9 / 30 \\ & \text { Mon } \end{aligned}$ | Workday <br> (September $30^{\text {th }}$ - National Chewing Gum Day) |  |
| 5 | $\begin{aligned} & 10 / 1 \\ & \text { Tues } \end{aligned}$ | L8/L10 Compound Interest <br> (October $1^{\text {st }}$ - National Homemade Cookie, Eat Fruit at Work, <br> \& Hair Day) | L8 Set \# 14-22 <br> Even, LO \#17-24 |
| 6 | $\begin{gathered} 10 / 2 \\ \text { Wed } \end{gathered}$ | L5 - L6 Factoring By Grouping \& Quadratic Formula <br> (October 2 ${ }^{\text {nd }}$ - National Fried Scallops \& Pumpkin | L5 Go \# 24-27, L6 Go Odd, WS S \& P Odd, WS F by G |
| 7 | $\begin{gathered} 10 / 3 \\ \text { Thurs } \end{gathered}$ | Review <br> (October $3^{\text {rd }}$ - National Techies - (Consider Technology Careers) Day) | Study \& Project |
| 8 | $\begin{gathered} 10 / 4 \\ \text { Fri } \end{gathered}$ | Unit Test 2 <br> (October $4^{\text {th }}-$ National Taco Day) | Project \& Schoolnet \# 2 |
| (October $5^{\text {th }}-$ National Do Something Nice Day) |  |  |  |



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## Unit 2 -Honors Math 3 - Standards "Inverse \& Exponential Functions"

| NC.M3.A-SSE.1a | a. Identify and interpret parts of a piecewise, absolute value, polynomial, exponential and <br> rational expressions including terms, factors, coefficients, and exponents. |
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| NC.M3.A-SSE.3c | c. Write an equivalent form of an exponential expression by using the properties of <br> exponents to transform expressions to reveal rates based on different intervals of the <br> domain. |
| NC.M3.A-CED.1 | Create equations and inequalities in one variable that represents absolute value, <br> polynomial, exponential, and rational relationships and use them to solve problems <br> algebraically and graphically. |
| NC.M3.A-CED.2 | Create and graph equations in two variables to represent absolute value, polynomial, <br> exponential and rational relationships between quantities. |
| NC.M3.F-IF.7 | Analyze piecewise, absolute value, polynomials, exponential, rational, and trigonometric <br> functions (sine and cosine) using different representations to show key features of the <br> graph, by hand in simple cases and using technology for more complicated cases, <br> including: domain and range; intercepts; intervals where the function is increasing, <br> decreasing, positive, or negative; rate of change; relative maximums and minimums; <br> symmetries; end behavior; period; and discontinuities. |
| NC.M3.F-LE.4 | Use logarithms to express the solution to ab ${ }^{\text {ct }}=$ d where a, b, c, and d are numbers and <br> evaluate the logarithm using technology. |
| NC.M3.F-BF.1a | Write a function that describes a relationship between two quantities. <br> a. Build polynomial and exponential functions with real solution(s) given a graph, a <br> description of a relationship, or ordered pairs (include reading these from a table). |
| NC.M3.F.BF.1b | b. Build a new function, in terms of a context, by combining standard function types <br> using arithmetic operations. |
| NC.M3.F-BF.4a | Find an inverse function. <br> a. Understand the inverse relationship between exponential and logarithmic, quadratic <br> and square root, and linear to linear functions and use this relationship to solve problems <br> using tables, graphs, and equations. |
| NC.M3.F-BF.4c | Determine if an inverse function exists by analyzing tables, graphs, and equations. <br> c. If an inverse function exists for a linear, quadratic and/or exponential function, $f$, then <br> represent the inverse function, $f^{-1}$, with a table, graph, or equation and use it to solve <br> problems in terms of a context. |
| NC.M |  |

Have a Good Day!


[^0]:    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!

