**Matrices**

**~ Unit 13 Self-Pacing Guide ~**

Suggested/planned completion dates are given in the right-hand column. Any change of plans will be announced in class for you to adjust on your paper!

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| Check When Complete | **Whole Class Lesson - P** | Thurs3/28 |
|  | Class Lesson – “Thin-Slicing Matrix Operations” |
| Check When Complete | **Lesson 13.1 ~ Intro to Matrices** | Mon4/1 |
|  | Watch video & take notes (EdPuzzle) |
|  | Independent Practice: “13.1 – Intro to Matrices” (DeltaMath) |
|  | Mastery Check (In Class) |
| Check When Complete | **Whole Class Lesson - Q** | Tues4/2 |
|  | Class Lesson – “Matrix Operations Practice Stations” |
| Check When Complete | **Lesson 13.2 ~ Basic Matrix Operations** | Mon4/1 – Wed 4/3 |
|  | Watch video & take notes (EdPuzzle) |
|  | Independent Practice: “13.2 – Basic Matrix Operations” (DeltaMath) |
|  | Mastery Check (In Class) |
| Check When Complete | **Whole Class Lesson - R** | Thurs4/4 |
|  | Class Lesson – “Thin-Slicing Matrix Multiplication” |
| Check When Complete | **Lesson 13.3 ~ Multiplying Matrices** | Fri 4/5 – Mon4/8  |
|  | Watch video & take notes (EdPuzzle) |
|  | Independent Practice: “13.3 – Multiplying Matrices” (DeltaMath) |
|  | Mastery Check (In Class) |
| Check When Complete | **Whole Class Lesson - S** | Tues4/9 |
|  | Class Lesson – “More Matrix Practice Stations” |
| Check When Complete | **Lesson 13.4 ~ Matrices on the Calculator** | Wed 4/10 – Thurs4/11  |
|  | Watch video & take notes (EdPuzzle) |
|  | Independent Practice: “13.4 –Matrices on the Calculator” (DeltaMath) |
|  | Mastery Check (In Class) |
| Check When Complete | **Unit Mastery Check** | Thurs 4/11 – Tues 4/16 |
|  | **Thursday, 4/11:** Independent Practice (finishing Deltas & MathXL) & Catch-up on 13.1 – 13.4 Mastery Checks |
|  | **Friday, 4/12:** Matrices – DFA 13 |
|  | **Monday, 4/15:** Reteach lesson (most-missed problems) with Re-Focus (MathXL) |
|  | **Tuesday, 4/16:** Matrices – DFA 13 RETAKE |

**~ Unit 13 At A Glance ~**

Complete the “I am Ready” problems for each lesson below.

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| **13.1**Matrix A is defined as: $A=\left[\begin{matrix}1&0&-4\\3&5&9\end{matrix}\right]$. Matrix A has an order/size of \_\_\_\_\_ x \_\_\_\_\_.Elements: A23 = \_\_\_\_\_\_ A12 = \_\_\_\_\_ A11 = \_\_\_\_\_ |
| **13.2**$A=\left[\begin{matrix}1&5\\2&3\\-4&5\end{matrix}\right]$ B $=\left[\begin{matrix}3&-3\\5&8\\1&4\end{matrix}\right]$ C$=\left[\begin{matrix}0&8&2\end{matrix}\right]$ D$=\left[\begin{matrix}6&2&-4\\-1&-3&7\end{matrix}\right]$Find the following, if possible: Write a problem that is impossible: \_\_\_\_\_\_\_\_\_\_\_\_\_\_A + B = B – A = 4D =  |
| **13.3**$A=\left[\begin{matrix}1&5\\2&3\\-4&5\end{matrix}\right]$ B $=\left[\begin{matrix}3&-3\\5&8\\1&4\end{matrix}\right]$ C$=\left[\begin{matrix}0&8&2\end{matrix}\right]$ D$=\left[\begin{matrix}6&2&-4\\-1&-3&7\end{matrix}\right]$Find the following, if possible: AB = BD = CA = **Why is the impossible problem impossible?** |
| **13.4**What are the steps needed to multiply the following using the calculator? (i.e. Where do you go, how do you put in the matrix, how do you actually multiply the matrices, etc.?)$\left[\begin{matrix}1&0&3\\-1&4&-4\\2&8&5\end{matrix}\right]\left[\begin{matrix}-2&-1\\4&0\\5&-5\end{matrix}\right]=$  |