Lesson Plan, 6-9pm, Monday, 15 October, 12018 HE rm. 211, SDCE, North City Campus

Instructor: Ms. S. D. Jones

In our **Learning Toolbox**:

Where to find information about voting: the local Public Library!!

Vocabulary:

Copy into your notes, and Mind Map each word:

Reading Comp. Vocab.	Grammar Vocabulary	Math Vocabulary	Test-taking Skills	
Monday is for your	onday is for your Essay Writing		Breaking tasks down	
Essay Writing	Mondays		into smaller pieces	
	Thesis sentence	Fractions	Noticing details	
	Introductory paragraph	Division as repeated	Around, approximate	
		subtraction		
	General outline	Exponential form	About, near, close to	
	Detailed outline	Fractional form	Planning your time	
	Body paragraphs	Decimal form	Eliminate the unlikely	

6pm: Write one sentence telling me the topic of your essay.

6:02 Continue on work from your folder (on Reading/Literature/Science/Social Studies).

7pm: Stand up & Stretch, if you wish...

7:00 to 7:07 Reading Comprehension

7:07 to 7:15 Grammar lecture, using the passage below.

7:15 to 7:25 Math lecture, also using this same passage.

<u>7:25-7:30</u> We do 1st question/problem from each online worksheet together, then you finish the online activities from all lectures individually on the classroom computers.

Mathematics work online and/or in books from 7:45 until 8:45.

7:00-7:15: **Reading Comp.**: No reading today. Continue working on your thesis sentence and introductory paragraph...

7:15 Mathematics Topic: Negative exponents

Why would we want to convert between forms of expression? *Sometimes a problem is easier to solve in an equivalent form...*

Relationship between negative exponents, fractions, and decimals:

Rule	Three-Forms Example
Negative Fractions jump the fraction bar	$2^{-3} = 2^{-3}/1 = 1/2^3 = 0.125$

So, negative exponents and fractions are just another form of the same #!

Let's chart some Ways to Express Any Number X

Let 5 chart some ways to Express my rumber is										
#	Fractional	Radical	multiply	exponent	fraction	decimal	percent	Por		
Quantity	Exponents	form						Ciento		
8	$(64)^{1/2}$	√64	4*2	81	64/2, 8/1	8.0	800%	800/100		
3-1	$(1/9)^{1/2}$	<mark>√1/9</mark>	<mark>33/99</mark>	3 ⁻¹	1/3	<mark>.3333</mark>	<mark>33%</mark>	33/100		
12	$(144)^{1/2}$	√144	12*1,3*2 ²	12 ¹	12/1,24/2	12.000	1200%	1200/100		
3	$9^{1/2}$	√9	3*1,	31	9/3, 12/4	3.00	300%	300/100		
			$3*3^{0}$							
27	$(27*27)^{1/2}$	√(27*27)	3*3*3	$3^{1}*3^{2}$	27/1	27.00	2700%	2700/100		
1/2	2-1			2-1	1/2	.5	50%	50/100		

Now, let's do the first online math worksheet problem together: https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-neg ative-exponents_2

7:30

1.) Please finish your outline, Thesis sentence, and a few sentences of your Introductory Paragraph,

and

2.) Please do the remainder of online math worksheet: https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-negative-exponents/e/exponents_2

- 8:40 **Exit Questions**: 1. Please **write** one sentence explaining why a negative exponent is a special kind of fraction. Could you use either form to *express* the same quantity? (yes/no)
 - 2. What is your Thesis sentence?
 - 3. How many body paragraphs does your essay have?
 - 4. Show 1/3 in exponential form.
- 8:45 Turn in Exit Slip, Dismissal