Lesson Plan, **6-9pm, Wednesday, 17 October, 12018 HE rm. 211**, SDCE, North City Campus
Instructor: Ms.   S. D. Jones

Vocabulary:
Copy into your notes, and **_Mind Map_** each word:

Reading Comp. Vocab.	_Grammar Vocabulary_	_Math Vocabulary_	_Test-taking Skills_
Theme	**Clauses and commas**	**Rectangles, squares**	**Breaking tasks down into smaller pieces**
Theme	What is a *clause*?	Equilateral	Pace yourself
Unspoken	Adjective clauses	Length	Look for hints in text
Read between the lines	Modifier clauses	Width	Seek hints in problem
Ideas	Commas as separators	quadrilateral	Observe wording
symbols	identifiers	area	Reread the question

6pm:
        Write one or two sentences explaining what you think might be the differences between x and y.

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.
 _7:25-7:30_   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.

7:00-7:07:   **Reading Comp.**: *theme*
                        The theme is unspoken, but is there, in symbols and in ideas, throughout the entire passage or book.   It is a "big idea" that the author wants you to think about.

        Today's Passage: "colonists, who later rebelled, had established the Continental Congress in 1774 tounite the colonies. In 1775m the Second continental Congress appointed George Washington as commander of the continental army, which re;ained the government of the united states until the u.s. Constitution was ratified in 1789." *(Today's reading comes from P. 253 in Peterson's Master the HiSET, 2nd Edition ...)*

Where might there be a compound sentence?
Where are the Grammatical errors?

7:07   Grammar: **Clauses and commas**

"A clause is any noun phrase plus a verb";   and a comma goes around it.   For example:

My cat, which is purring, sheds a lot of fur.
Where is the clause in our reading above?

Let's do the first question on our commas and clauses activity:
https://www.khanacademy.org/humanities/grammar/punctuation-the-comma-and-the-apostrophe/commas-in-space-and-time/e/commas-and-introductory-elements

7:15   Mathematics Topic: **Area of rectangles, squares, and triangles**

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

Relationship between rectangles, squares, & triangles:

Rule name	Rule	Three-Forms Example
Parallelogram	$A=l*w$	Quadrilateral
Parallelogram: opposite side lengths are equal	$A=b*h$	Rectangle
Parallelogram: All four side lengths are equal	$A=l*l$ $A=w*w$ $A=l^2$ $A=w^2$	Square
Parallelogram cut in half	$A_\Delta=1/2bh$	triangle

(Source:)

So, tri**angles** and **squares** are just another form of **rectangle,**

and, exponents really are just radicals in a different form!
Let's chart **some Ways to Express Any Number X**

#	Fractional	Radical	multiply	exponent	fraction	decimal	percent	*Por*

Quantity	Exponents	form						*Ciento*
8	$(64)^{1/2}$	$\sqrt{64}$	4*2	8^1	64/2, 8/1	8.0	800%	800/100
3^{-1}	$(1/9)^{1/2}$	$\sqrt{1/9}$	33/99	**3^{-1}**	**1/3**	.3333	33%	33/100
12	$(144)^{1/2}$	$\sqrt{144}$	$12*1, 3*2^2$	12^1	12/1,24/2	12.000	1200%	1200/100
3	$9^{1/2}$	$\sqrt{9}$	$3*1,$ $3*3^0$	3^1	9/3, 12/4	3.00	300%	300/100
27	$(27*27)^{1/2}$	$\sqrt{(27*27)}$	3*3*3	3^1*3^2	27/1	27.00	2700%	2700/100
6.8	$46^{1/2}$	$\sqrt{46}$						

Now, let's do the first online math worksheet problem together:
https://www.khanacademy.org/math/pre-algebra/pre-algebra-measurement/pre-algebra-area/e/area_of_squares_and_rectangles

7:30

    1.) Please, finish the grammar activity:
https://www.khanacademy.org/humanities/grammar/punctuation-the-comma-and-the-apostrophe/commas-in-space-and-time/e/commas-and-introductory-elements

and

    2.) Please do the remainder of online math worksheet:
https://www.khanacademy.org/math/pre-algebra/pre-algebra-measurement/pre-algebra-area/e/area_of_squares_and_rectangles

8:40 **_Exit Questions_**: 1. Please **write** one sentence explaining why a square is special kind of rectangle. Could you use the same formula to find the area for either a square or a rectangle? (yes/no)

2. What does the word "equi" mean?
3. How many degrees does a Right Angle have?
4. Show how square is related to the area of a rectangle.

8:45 Turn in Exit Slip, Dismissal