

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

In our **Learning Toolbox:**

LearnStorm via Khan Academy (ways to grow your brain...): **The 3 Rs**

- **Recognize:** What are some indications that you are frustrated?
- **Remind:** What can you say to remind yourself that frustration is ok?
- **Reset:** a short walk, count to 10, deep breaths, imagine...

Vocabulary:

Copy into your notes, and **Mind Map** each word or phrase:

<u>Reading Comp. Vocab.</u>	<u>Grammar Vocabulary</u>	<u>Math Vocabulary</u>	<u>Test-taking Skills</u>
Separation of powers: Law Makers	Essay Writing: Body paragraphs	Exponent products/quotients	Breaking task down into smaller pieces
Legislative Branch	Pros/supporting reasons for your thesis	X, Y coordinates (<i>foreshadowing...</i>)	Distribute like tasks among all parts of pjt
legislation	Cons/counterarguments	Cartesian coordinates	Structure: <i>word counts</i>
legislators	Supporting sentences	Area and exponents	Content: <i>word counts</i>
legislature	Rebuttal	product rule (multiply)	Literature & math voc.
Branches (three)	Transition	Quotient Rule (divide)	Monitoring progress

6pm: 1.

Write one or two sentences explaining what you think might be the differences between the Congress and the California State Assembly.

2. optional **easy** math warm-up: (This activity is on Area and exponents, to *foreshadow* X,Y coordinates via estimation of square roots.)
https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-square-roots/e/square_roots_2

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.:** use Closed Captions on videos

Today's Passage: <https://www.youtube.com/watch?v=tyeJ55o3E10>. (Today's reading comes from *Closed Captions for the Hard of Hearing...*)

Write three sentences explaining what a bill is, please.

7:07 Grammar lecture part2/4: **Essay Writing –the Body Paragraphs:**

Section II of your essay outline will be the first Body paragraph: your Pros paragraph.

-Note: this paragraph should **match**

- 1.) the second sentence of your Introductory Paragraph, which will match
- 2.) the second clause or phrase in your Thesis sentence, in greater detail.

Please write

- 1.) one thesis sentence to show me at the end of class or for tomorrow, and
- 2.) one essay outline that matches this thesis sentence, with *word counts...*

7:15 Mathematics Topic: multiplying and dividing **Exponents**

Because, *Sometimes a problem is easier to solve in an equivalent form...*

Exponents rules and properties

Rule name	Rule	Example
Product rules	$a^n \cdot a^m = a^{n+m}$	$2^3 \cdot 2^4 = 2^{3+4} = 128$
	$a^n \cdot b^n = (a \cdot b)^n$	$3^2 \cdot 4^2 = (3 \cdot 4)^2 = 144$
Quotient rules	$a^n / a^m = a^{n-m}$	$2^5 / 2^3 = 2^{5-3} = 4$
	$a^n / b^n = (a / b)^n$	$4^3 / 2^3 = (4/2)^3 = 8$

(Source: <https://www.rapidtables.com/math/number/exponent.html> and <https://www.homeschoolmath.net/teaching/md/division-repeated-subtraction.php>)

Multiplication is repeated addition, so $a^n \cdot a^m = a^{n+m}$

Division is repeated subtraction, so $a^n / a^m = a^{n-m}$

(Source: <https://web.northeastern.edu/seigen/1250DIR/Handout-ExponentsandRadicals1.pdf>)

Today, we have **two different math activities to choose from**: an easier one and a more challenging one.

First, let's do the first online math worksheet problem together:

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponent-properties/e/powers-of-products-and-quotients-sp>

Now, let's do the first problem from the more challenging one:

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponent-properties/e/powers-of-products-and-quotients>

7:30 Please

1.) Finish your outline and thesis sentence, and

2.) do the remainder of the easier online math worksheet:

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponent-properties/e/powers-of-products-and-quotients-sp>

8pm: continue to work on mathematics

8:40 **Exit Questions**:

1. Please **write** one sentence explaining how you can use outline to organize your essay.
2. What is a body paragraph?
3. Which sentence (in the introductory paragraph) tells us what the body paragraphs will discuss?
4. Write in mathematical terms and show: what is the approximate length of the side of a field which is 46 square feet?

8:45 Turn in Exit Slip, Dismissal