Lesson Plan, **6-9pm, Tuesday, 30 October, 2018 HE rm. 211, SDCE, North City Campus**  
**Instructor:** Ms. S. D. Jones

**In our *Learning Toolbox***:
Where can you find more about the SD Promise Program?

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

<table>
<thead>
<tr>
<th>Reading Comp. Vocab.</th>
<th>Grammar Vocabulary</th>
<th>Math Vocabulary</th>
<th>Test-taking Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>No reading today, to leave more time for math lecture.</td>
<td>Using commas and conjunctions: connect independent clauses</td>
<td>Finding the area of polygons via coordinates</td>
<td>Topic: breaking a problem into smaller pieces</td>
</tr>
<tr>
<td></td>
<td>conjunction</td>
<td>Region</td>
<td>Set up your problem</td>
</tr>
<tr>
<td></td>
<td>Coordinating conjunction</td>
<td>Chop up into distinct pieces (areas)</td>
<td>Number each piece to keep track of progress</td>
</tr>
</tbody>
</table>

6pm:  **Write** one or two sentences using any conjunction.

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.**

**7:00-7:15  Grammar:**  *comma and conjunction connect independent clauses*

**Rules:**

1.  “The **comma** is always correct when used to separate two **independent clauses connected** by a coordinating **conjunction**.”  
(http://grammar.ccc.commnet.edu/grammar/conjunctions.htm)

2.  **Use coordinating conjunctions to indicate that the elements they join are equal in importance and in structure.**

**Definition of Coordinating Conjunctions**
Coordinating conjunctions join grammatically similar elements (two nouns, two verbs, two modifiers, two independent clauses):

- **and**
- **or**
How to punctuate coordinating conjunctions
When a coordinating conjunction joins two independent clauses, a comma is used before the coordinating conjunction (unless the two independent clauses are very short).

Perhaps no budget is without some fat, but university officials argue that their unique function requires special standards of evaluation.

source: https://writing.wisc.edu/Handbook/CoordConj.html

Let’s do the first question from our grammar activity:

7:15 Mathematics Topic: **Finding the area of polygons on a coordinate plane (a grid)**

First, let’s practice drawing shapes on a grid and finding the area:
https://www.khanacademy.org/math/basic-geo/basic-geo-coord-plane/quadrilaterals-on-plane/e/area-and-perimeter-on-the-coordinate-plane

Now, let’s draw an irregular polygon and find the area by dividing it up into five separate shapes:
1. Draw a coordinate area going from X = -3 to 3, and Y = -2 to 2
2. Plot points (-3,0), (-1,2), (-3,-1), (-1,-1), (1,1), (1,2), and (3,1)
3. Divide this polygon into five pieces including two triangles, two rectangles and one square.
4. Find the area of each of the five pieces, add them, and explain why A = 11 square units

(Source: p. 161 Master the HiSET, 2nd Ed.)
Now, let’s do the online math practice problem together:
https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/basic-geo-unit-squares-area/e/measuring-area-with-unit-squares

7:30
1.) Please do the rest of our online grammar worksheet:

and
2.) Please do the remainder of online math worksheet:
https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/basic-geo-unit-squares-area/e/measuring-area-with-unit-squares

Day 33
8:40 **Exit Questions:** 1. Please **write** one sentence explaining how you could find the area of an irregular polygon.
   2. What is a coordinate grid?

8:45 Turn in Exit Slip, Dismissal