



Welcome!

On a post-it please write:

- a favorite math instruction strategy (or activity)
- or
- a favorite English Language learning instructional strategy (or activity)

Please add the post it to our chart.



What English Language Development Taught Me About Math Instruction

Abby Roza, Hennepin County Corrections

They say this thing is gonna close.

They say when?

Achievement Gap

Brian Carr - <https://www.behance.net/gallery/1693046/Ed-Reform-Political-Cartoons>





whosays8isenough365

**Are you taking
any foreign
language
classes?**

Yes, math.





<https://www.flickr.com/photos/jennycu/6991165912>



Identify a language objective.

Shape the meaningful task to include meaningful use of language.

Add language learning supports.



Identify the Language Objective:

Math Objective:

SWBAT

Round multi-digit numbers using a number line.



Identify the Language Objective:

Math Objective:

SWBAT

Round multi-digit numbers using a number line.

Language Objective:

SWBAT

Describe rounding numbers by describing what a number is near or close to on the number line orally and in writing.



Identify the Language Objective:

Math Objective:

SWBAT

Round multi-digit numbers using a number line.

Language Objective:

SWBAT

Create a working definition of rounding by describing numbers' proximity on a number line.



Identify the Language Objective:

Math Objective:

SWBAT

Use real life proportional relationships to write linear equations.



Identify the Language Objective:

Math Objective:


SWBAT

Use real life proportional relationships to write linear equations.

Language Objective:

SWBAT

Describe their manipulations of algebraic equations.

- 
- Read the math objectives.
 - Read the sample problem.
 - Write a language objective that supports a math objective.

The students will
be able to_____.



Vocabulary



What are some strategies for supporting English Language Learners in a content area lesson?



Mathematical Objective:

SWBAT solve word problems that involve unit rate.

SWBAT compare multiple solving processes for a word problem that involves rate.

Classwork will include students working independently to solve:

A printer can print 250 business cards in 2 minutes.
At this rate, how many can it print in 5 minutes?

Identify a language objective that will support the Mathematical objectives:
Students will be able to.....



Choose a strategy to meet your language objective.

How long is the entire roll
of toilet paper?



Estimation180.com

➤ Which One Doesn't Belong? C. Danielson






➤ They all _____.

➤ Only one _____.

➤ The value of _____ is _____.

➤ The number of coins is _____.



1. Make sense of problems and persevere in solving them.

3. Construct viable arguments and critique the reasoning of others.

6. Attend to precision

■ Where should I start? Why?

■ How do you know what to do next?


■ What is the question asking?

■ I'm wondering ?

■ I know _____ and _____, but
why or what is _____?

■ I understand _____, but
would you show me how to
do _____ or figure out _____?

"I don't know"



2. Reason abstractly and quantitatively.

4. Model with Mathematics.

Name J ~~XXXXXXXXXX~~


Your solution (pictures, notes, calculations):

$$250 \div 2 = 125$$
$$\begin{array}{r} 125 \\ \times 5 \\ \hline 625 \end{array}$$

Before this in my head, I thought:
 $250 + 250 = 500$
 $2 \text{ min} + 2 \text{ min} = 4 \text{ min}$
500 cards in 4 min
Then I needed to find out 1 minute...

What did you do?

First I divided 250 by 2 and got 125 so that's the rate per minute. Then I took 125×5 to get the total number of prints for 5 minutes. The total was 625.



7. Look for and Make Use of Structure.

8. Look for and express regularity in repeated reasoning.



Visualpatterns.org



Pattern 11

T h a n k

Y O U

Please complete the form.