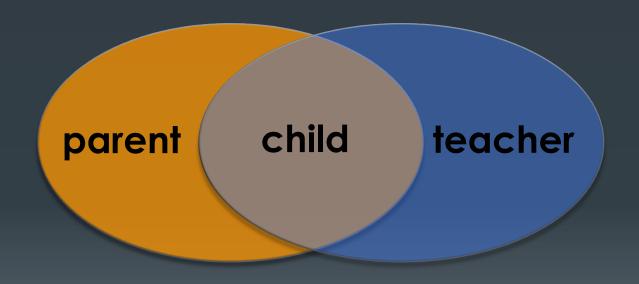
The Homework Connection: Engaging Families Through Bilingual Math Activities



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Portland Public Schools

"Jose knows 3 colors in Spanish and 3 in English (same 3), he is labeled 'limited' in L1 and L2

Bill knows 5 colors all in English. He is labeled as 'average'.

Who knows more?

Our current paradigms are deficit oriented with regard to simultaneous bilingualism.

We need to develop an asset based theory about simultaneous bilingualism. "

-Dr. Kathy Escamilla 2013 English Learners Alliance Conference

Agenda

- Video: Compare Math Language
- Build Background of Math Language Frames Work
- Take a Trip to Bolivia
- Analyze Homework
- Video: Connect Use of Academic Language to Homework
- Activity: Practice using Math Language
- Read & Reflect
- Q & A

Math Talk!



What language would you rather hear?

Student-Centered Activities





When students are working in pairs or small groups, are they on task and using the precise academic language required for the activity?

What strategies can we use to guide students toward this goal?

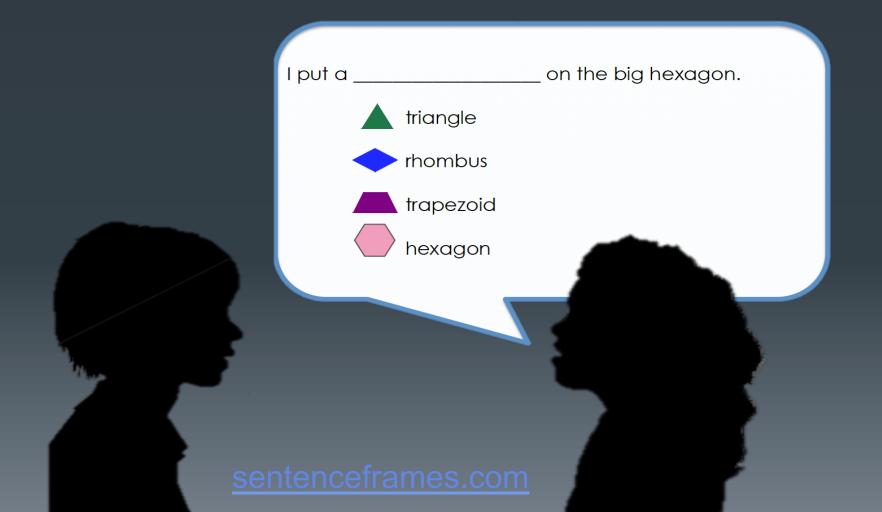
Background

SIOP / Sheltered Instruction

84 schools trained between 2010-2012 in Portland

"I agree this is great teaching for ELLs, but there are 8 components, 30 features...I simply don't have time to implement all of this in my classroom." "Turn and talks are great, but how do I know that my kids are really talking about the concept? How do I keep them on track?"

Language Frames Connected to the Math Content



How does this connect to our families?





NOMBRE	FEC

Enlace con el hogar no. 23 ★ Actividad

NOTA PARA LA FAMILIA DEL ALUMNO

A ver quién llega a 30 centavos primero es un juego diseñado para que los niños aprendan a identificar las monedas por su nombre y por su valor, al igual que para llegar a comprender que se pueden cambiar 10 pennies (monedas de un centavo) por 1 dime (una moneda de diez centavos). También hace que cuenten de a 10 y de a 1 y que calculen sumas de 10 y más y de 20 y más a medida que continúa el juego. El reto es comprender que los dimes valen 10 y que los pennies sólo valen 1, y así poder contar el dinero debidamente. Aún si su niño no ha llegado a entender que 3 dimes valen 30 centavos, le encantará ganar los 3 dimes y saber que cada uno vale 10 pennies.

A ver quién llega a 30 centavos primero

Van a necesitar el juego A ver quién llega a 30 centavos primero, al igual que 25 pennies y 6 dimes para que los puedan compartir los 2 jugadores.

Instrucciones

I Túrnense girando la flecha y juntando el número indicado de *pennies*.



2 Al tomar cada turno, pon la nueva colección de *pennies* sobre los dibujos de cada *penny* en tu lado o parte del

tablero. (Si tienes más de 10, pon los que sobran a un lado por ahora.) ¿Cuántos *pennies* tienes en total? ¿Te sobrará alguno después de cambiarlos?

- **3** Si tienes 10 o más *pennies*, cambia 10 por 1 *dime* y ponlo encima de 1 de los dibujos de un *dime* de tu lado del tablero. Pon los *pennies* que te sobren encima de los dibujos de *pennies* en tu parte del tablero. Ahora le toca girar la flecha al otro jugador.
- **4** Deben contar los grupos de monedas de los dos jugadores a medida que van creciendo.
- **5** Cuando uno de los jugadores ya está cerca de tener 30 centavos, cuando gira la flecha tiene que sacar la cantidad exacta de pennies para ganar. Si saca

Home Connection 23 ★ Activity



NOTE TO FAMILIES

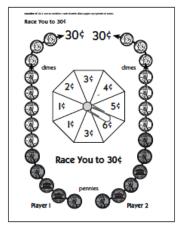
Race You to 304 is a game designed to help children practice identifying coins by name and value, as well as to develop the understanding that I0 pennies may be traded for I dime. It also entails counting by I0's and I's and figuring out sums of I0 and more and 20 and more as the game progresses. The challenging part of this game is to understand that the dimes are worth I0 while the pennies are only worth I, and to count the money accordingly. Even if your child doesn't yet fully understand the idea that 3 dimes make 304, he or she will be delighted to end up with the 3 winning dimes and to know that each dime is worth I0 pennies.

Race You to 30¢

You'll need the Race You to 30¢ game, along with 25 pennies and 6 dimes for 2 players to share.

Instructions

I Take turns spinning the spinner and collecting the designated number of pennies.



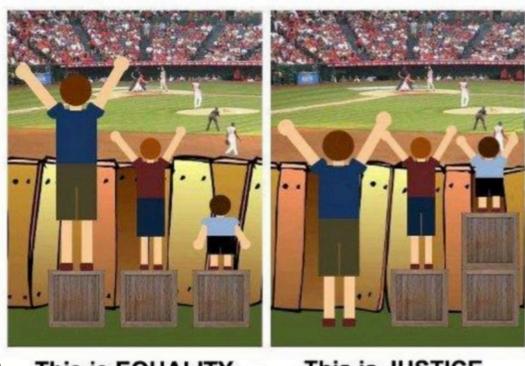
2 With each new turn, place the new collection of pennies on top of the penny pictures on your side of the

gameboard. (If you have more than 10, place the extras off to the side for now.) How many pennies do you have altogether? Do you have enough to trade for a dime? Will you have any left over after the trade?

- **3** If you have 10 or more pennies, trade 10 for a dime and set it on top of 1 of the dime pictures on your side of the gameboard. Place any leftover pennies on top of the penny pictures on your side. Then it's your partner's turn to spin.
- **4** Be sure to stop and count both players' growing accumulations of coins frequently.
- **5** When a player gets close to 30¢, he or she has to spin the *exact amount* of pennies needed to win the game. If

Providing Equal Access

Equality is not always Justice



This is EQUALITY

This is JUSTICE

This is EQUALITY

This is JUSTICE

Gr K Home Connections 23 Race You to 30¢ Simplified Directions

What you need:



Race You to 30¢ gameboard

25 pennies

6 dimes

What to do:

Spin the spinner.

2.

Collect the number of pennies your arrow lands upon.

.

Place the pennies on top of the gameboard pennies (if you run out of space, place the pennies close by).

4.



If you have 10 or more pennies, tro 10 pennies for 1 dime.

5.

Use the dime to cover one of the dime on your side of the game poard.

6.

Now it is your partner's turn to spin.

7.

When a player gets close to 30¢, they have to spin the exact number of pennies to win the game.

8.

If the spin is too much, that turn is lost.

9.

The first player to collect exactly 30¢ wins the game.

¿Qué se necesita?





- El tablero A ver quien llega a 30¢ centavos primero
- 25 pennies
- 6 dimes

Que hacer:



Gira la ruleta.

 Toma la cantidad de monedas pennies que indica la flecha.



Coloca las monedas pennies en su lugar designado en el tablero.

En cuanto colecciones 10 pennies intercámbialos por 1 dime.



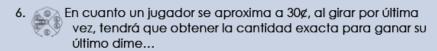






Coloca el dime en el lugar designado de tu lado del tablero.





- 7. Si al girar por última vez, cae en una cantidad mayor de lo que necesita para 10¢ (un dime) pierde el turno.
- 8. X El jugador que junte primero 30¢ centavos exactos ¡gana!

3 3 3	
Hago girar y agarré	centavos.
	%
Ahora tengo	centavos.
ca	imbiar 10 centavos por 1 ' dime' .
Puedo	
No puedo	
<u> </u>	centavos que usted.
más/menos	
0	
¡Tengo la misma car	ntidad de usted!
_	

6 2	<u> </u>
5 14 3	
I spun	cents.
Now I have _	cents.
1	trade in 10 pennies for 1 dime.
can	
can't	
I have	cents than you.
more/fewer	
Or	
I have the same amount of money as you!	

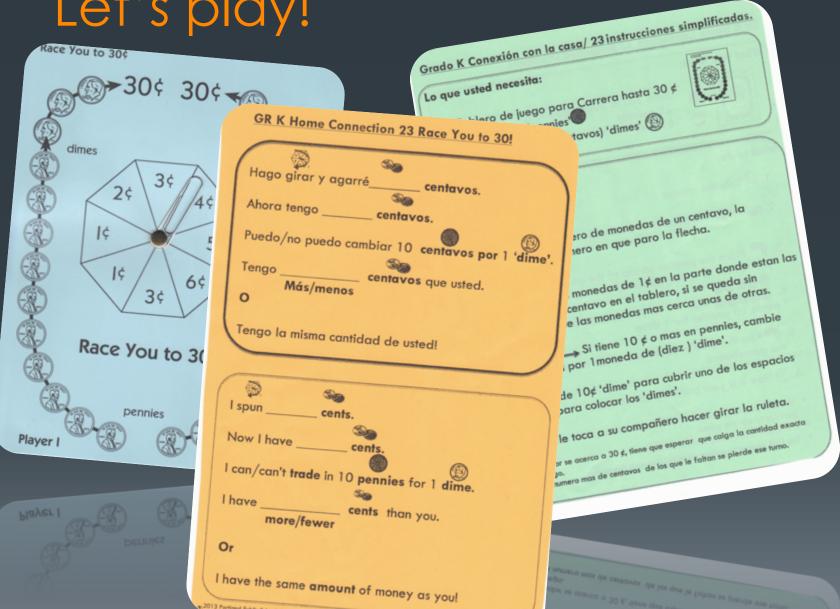
The Home Connection



Video Debrief

- Find a shoulder partner
- Discuss:
 - Mathematical Content of the Activity
 - Language Components of the Activity
 - Questions, Connections and Insights

Let's play!



Actions taken...

- Making visual step by step directions for the K-2 math homework
- Translating them into the top 5 languages
- Providing a academic sentence frame in both languages for families to use as they are interacting with the homework

It is one thing to just send it home, but another to teach families how to use the tools...

добро пожаловать

ຍິນດີຕ້ອນຮັບ chào đón



ترحيب

Family Math Night Woodmere Elementary

bienvenido

欢迎

soo dhaweyn

welcome

maligayang pagdating

zoo siab txais tos

ласкаво просимо



What you need:





- · Pattern Blocks:
 - 10 hexagons
 - o 20 trapezoids,
 - o 20 triangles
 - 20 blue rhombuses
- A Last Shape In Wins gameboard

What to do:



Find a partner.



Get some pattern blocks and a gamebord.





Decide who will go first and who will go second.



Take turns placing the blocks on the gameboard.



Each time it is your turn, you get to put one block anywhere on the gameboard you want.



You may use any of the four shapes.



You must take your turn every time, down to the very end.



The object of the game is to be the person who gets to complete the big hexagon by fitting in the final shape.

★2013 Portland Public Schools Bridges GR 2 Work Place 6C Simplified Directions

I put a _____ on the Coloco un ____ en el hexágono grande.

4444黑一個

大洼佃土土鱼形上

Waxaan dul dhigay ______ lix geesoolaha weyn.



Saddex xagal



qardhaas



koor



lix geesoole



hình lục giác



шестиугольник

Equity

vork

Engages Families

Promotes Bilingualism

Empowers Students

Provides Access to Content

Benefits All Schools

Review

Providing Access to Content

Language Frames Connected to Core Content

2. Visual Directions
Connected to
Core Homework

4. Opportunities for Parents to learn about tools



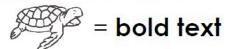
3. Language Frames Connected to Core Homework

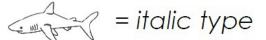
5. These Resources in Multiple Languages

Pair Read Reflect

"English Language Learners are the fastest growing group of students across the nation. Most states and districts lack a vision for ELL education that builds on families' cultural and linguistic assets. They also mostly underfund ELL education and adopt primarily subtractive ELL approaches, in which students lose their first language and identity and are immersed in English-only environments. The role of ELL leaders in most states and districts is marginalized rather than elevated and is focused on compliance rather than asset and capacity building. ...We need to shift the paradigm by increasing the opportunities and choices for students and families to those that support the acquisition of academic English, while simultaneously developing the students' native language and teach the students content."

-Dr. Rosann Tung (2013) Innovations in Educational Equity for English Language Learners Annenberg Institute for School Reform







Why do you think the Rosann Tung wrote this?

I think she wrote it because



Dog un:

What part of this statement resonates with you? Why?

The part of the text that states, _resonates with me because ____





How do we apply this statement to our experience?

I think it can teach us _



Q & A

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www.sentenceframes.com