## Materials

Steps to Implement the LAP document
Note catcher
Note Catcher
LAP sample
DL LAP Samples

## Setting a Foundation for Biliteracy with a Language Articulation Plan



## OUTCOME

Learn how to set your bilingual program up for success through the creation of a Language Articulation Plan

## AGENDA

- What is a LAP?
- The research

- Your vision
- Choosing a program model
- Creating a LAP
- Lessons learned


## AGENDA

## - What is a LAP

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A Language Articulation Plan is a roadmap for bilingual programming at the school level

It's a plan for how much English and Spanish is taught in each content area at every grade level.


## Also known as

 a CAP: Curriculum Articulation Plan



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## What are your initial thoughts when you look at this graph?



Thomas, W.P., \& Collier, V.P., 2002


Thomas, W.P., \& Collier, V.P., 2002

## 2 <br> MILE

## Spanish-speaking students need six years of bilingual

 instruction, with eight years preferable for full gap closure.Collier, Virginia and Thomas, Wayne. "The Astounding
Effectiveness of Dual Language Education for All." NABE Journal of Research and Practice, 2.1, 2004.

## GUIDING

PRINCIPLES FOR DUALLANGUAGE EDUCATION


Elizabeth R. Howard • Kathryn J. Lindholm-Leary • David Rogers • Natalie Olague José Medina • Barbara Kennedy • Julie Sugarman • Donna Christian

- center FOR APPLIED Linauistice


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## Defines the optimal desired future state,

## the mental picture, of what a program

wants to achieve over timer

## Provides guidance and

 inspiration as to what an organization is focused
## on achieving






Engage your community


## bilingual bilitenate

Español
English

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| One-way <br> Dual <br> Language | Only one <br> language group <br> learns through two <br> languages |
| :--- | :--- |
| Two-way <br> Dual <br> Language | Two (or more) <br> language groups <br> learn through two <br> languages |

## What is

your
program model?

## Bilingual Education

 Models
## Dual Language Models

| Dual Language 90/10 Model | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10\% | 10\% | 20\% | 20\% | 30\% | 40\% | 50\% |
|  | 90\% | 90\% |  |  |  |  |  |
|  |  |  | 80\% | 80\% |  |  |  |
|  |  |  |  |  | 70\% | 60\% |  |
|  |  |  |  |  |  |  | 50\% |
|  |  |  |  |  |  |  |  |
| Dual Language 80/20 Model | K | 1 | 2 | 3 | 4 | 5 | 6 |
|  | 20\% | 20\% | 30\% | 40\% | 40\% | 50\% | 50\% |
|  | 80\% | 80\% |  |  |  |  |  |
|  |  |  | 70\% | 60\% | 60\% |  |  |
|  |  |  |  |  |  | 50\% | 50\% |
|  |  |  |  |  |  |  |  |
| Dual Language 50/50 Model | $K$50\% | 1 | 2 | 3 | 4 | 5$50 \%$ | 6 |
|  |  |  | 50\% |  | 50\% |  |  |
|  | 50\% | 50\% | 50\% | 50\% | 50\% | 50\% | 50\% |


| Dual Language 90/10 Model | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10\% | 10\% | 20\% | 20\% | 30\% | 40\% | 50\% |
|  | 90\% | 90\% |  |  |  |  |  |
|  |  |  | 80\% | 80\% |  |  |  |
|  |  |  |  |  | 70\% | 60\% |  |
|  |  |  |  |  |  |  | 50\% |
|  |  |  |  |  |  |  |  |
| Dual Language 80/20 Model | K | 1 | 2 | 3 | 4 | 5 | 6 |
|  | 20\% | 20\% | 30\% | 40\% | 40\% | 50\% | 50\% |
|  | 80\% | 80\% |  |  |  |  |  |
|  |  |  | 70\% | 60\% | 60\% |  |  |
|  |  |  |  |  |  | 50\% | 50\% |
|  |  |  |  |  |  |  |  |
| Dual Language 50/50 Model | $K$50\% | 1 | 2 | 3 | 4 | 5$50 \%$ | 6 |
|  |  |  | 50\% |  | 50\% |  |  |
|  | 50\% | 50\% | 50\% | 50\% | 50\% | 50\% | 50\% |

## All Dual

 Language Models end with 50/50
## Maintenance or Transitional Model

| Transitional Billingual Model | ECE | K | 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10\% | 20\% | 30\% | 40\% | 50\% | 60\% | 80\% |
|  | 90\% |  |  |  |  |  |  |
|  |  | 80\% |  |  |  |  |  |
| English Spanish |  |  | 70\% | 60\% | 50\% |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 20\% |



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## A LAP is a plan for how

 much English and Spanish is taught in each content area at every grade level.

It creates
alignment and accountability


While individual teachers' schedules are periodically modified, the model language allocation should not be changed. If teachers do not follow the language allocation of the program model, there are serious consequences for students and their teachers as they move up the grade levels...As these students move up the grades, the Language Other Than English (LOTE) proficiency becomes weakened, creating difficulties for them to cope with an increasingly demanding curriculum.

Soltero, 2016

## Creating a LAP



## Step 1: Determine the Minutes

 $\left.\sin \frac{A}{2}=\sqrt{\frac{1-\cos A}{2}} x_{K+1}=\left(N^{n}+y / x_{k}\right)^{n-1}\right)(x)$
$S=\sum^{N}\left(x_{1}-\bar{x}\right)^{2}$ minutes in a day $\left.\operatorname{arccsch}(z)=\operatorname{In}\left(1+\sqrt{ }\left(1+z^{2}\right)\right) / z\right)$ $\log _{n} m=\frac{N}{\log m}$ Are specials included?

3 3 3 3 3 3 3 3 3 3 3

$\sin (-x)=-\sin (x)$



$\left.\begin{array}{l}\text { 1. } p \rightarrow r \\ \begin{array}{l}\text { 2. } q \rightarrow s \rightarrow s \\ \text { 3. } p \vee q\end{array}\end{array}\right\} \begin{aligned} & r v s \\ & \text { 1. } p\} p \vee q\end{aligned}$ $\operatorname{csch}(x)=\left(e^{x}-e^{-x}\right) / 2 \frac{\pi}{4}$
$\operatorname{csch}(2)=\cos (i z)$

$\sim \forall x[\sim p(x)] \equiv \exists x[p(x)] \sim(p \wedge q) \equiv \sim p v \sim q$
$\begin{aligned} & \vec{U}+\vec{V}=\vec{V}+\vec{U} \\ & x^{2}-2 a x+a^{2}=(x-a)^{2}\end{aligned} \quad S_{n}=\frac{n}{2}\left[2 a_{1}+(n+1) d\right]$
$x^{2}-2 a x+a^{2}=(x-a)^{2}$
$a_{n}=a_{1} r^{n-1} \quad a_{n}=\frac{1}{a_{1}+(n-1) d} \quad S_{n}=\frac{a_{1}-a_{1} r^{n}}{1-r} \quad y_{i}+1=y_{i}+\left(x_{n} / 2\right)\left(a-y_{i}{ }^{2}\right)$
$x_{n+1}=\left(x_{n} / 2\right)\left(3-a x_{n}{ }^{2}\right)$
your program
 $\log _{n} m=\frac{\log n}{\log n}$
$\operatorname{sech}(x)=(\cosh (x)=2)\left(e^{x+e^{-x}}\right)$
if Parallelogram $=b$ h

3
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language at each grade level?
$\left.\left.1+\Gamma\left(1+z^{2}\right)\right) / z\right)$ minutes are in each (biz)

Square $=a^{2}$
 $\operatorname{csch}(2)=\cos (i z)$ $b^{2}=(a+b)^{2}$
$\sin (-x)=-\sin (x)$

$$
\left.\left.\begin{array}{ll}
\text { 1. } p \text { q } \\
2 . q \rightarrow r
\end{array}\right\} p \rightarrow r \begin{array}{l}
\text { 1.pVq} \\
2 . \leadsto p
\end{array}\right\} q
$$

$$
\text { 1. } p \rightarrow r \text {. } 1 \cdot \rho \cap\}\} p
$$

$$
\begin{aligned}
& \text { 2. } q \rightarrow 5 \text { guvs } \\
& \text { 3. pry }
\end{aligned}
$$

$$
\text { 3. } \left.\operatorname{csch}(x)=\left(e^{x}-e^{-x}\right) / 2 \frac{\pi}{4}\right)
$$

$$
\sim \forall x[\sim p(x)] \equiv \exists x[p(x)] \sim(p \wedge q) \equiv \sim p v \sim q
$$

$$
\begin{aligned}
& \vec{U}+\vec{V}=\vec{V}+\vec{U} \quad S_{n}=\frac{n}{2}\left[2 \partial_{1}+(n+1) d\right] \\
& \left.x^{2}-2 a x+a^{2}=(x-a)^{2}\right]
\end{aligned}
$$

$$
\begin{array}{ll}
x^{2}-2 a x+a^{2}=(x-a)^{2} \\
a_{n}=a_{1} r^{n-1} \quad a_{n}=\frac{1}{a_{1}+(n-1) d} & S_{n}=\frac{a_{1}-a_{1} r^{n}}{1-r} \quad y_{i}+1=y_{i}+\left(x_{n} / 2\right)\left(a-y_{i}^{2}\right) \\
x_{n+1}=\left(x_{n} / 2\right)\left(3-a x_{n}^{2}\right)
\end{array}
$$

## 90/10

335 instructional min./day

| Program <br> Model | Grade <br> Level | \# Min. <br> Spanish | \# Min. <br> English |
| :--- | :--- | :--- | :--- |
| $90 / 10$ | K | 300 | 35 |
| $80 / 20$ | 1st | 270 | 65 |
| $70 / 30$ | 2nd | 235 | 100 |
| $60 / 40$ | 3rd | 200 | 135 |
| $50 / 50$ | 4 th $/ 5$ th | 168 | 167 |

## Step 3: Decision Time Which subjects will be taught in each language?



## Sample 90/10 LAP

| Sample Daily 90/10 LAP <br> 335 instructional minutes/day (not including Specials) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Grade Level | Literacy <br> (175 min) | Math <br> (70 min) | Science/Social Studies ( 45 min ) | $\begin{aligned} & \text { ELD } \\ & (45 \mathrm{~min}) \end{aligned}$ |
| Kinder <br> 90/10 <br> 300 Min Sp <br> 35 Min Eng | Spanish | Spanish | Spanish | English |
| 1st <br> 80/20 <br> 270 Min Sp <br> 65 Min Eng | Spanish <br> ( 155 min ) <br> English <br> ( 20 min ) | Spanish | Spanish | English |
| 2nd <br> 70/30 <br> 235 Min Sp 100 Min Eng | Spanish <br> (120 min) <br> English <br> ( 55 min ) | Spanish | Spanish | English |
| 3rd $60 / 40$ <br> 200 Min Sp 135 Min Eng | Spanish (135 min) <br> English <br> ( 45 min ) | English | Spanish | English |
| 4th $50 / 50$ <br> 170 Min Sp 165 Min Eng | Spanish <br> (125 min) <br> English <br> ( 50 min ) | English | Spanish | English |
| 5th $50 / 50$ <br> 170 Min Sp 165 Min Eng | Spanish <br> ( 125 min ) <br> English <br> ( 50 min ) | English | Spanish | English |

## LANGUAGE ALLOCATION

## GUIDELINES

Denver Public Schools

Overall Spanish to English Ratio

Overall Language Allocation Guidelines by Content for Grades ECE-5

| $\begin{aligned} & \text { ECE } \\ & 90: 10 \end{aligned}$ | Creative Curriculum Integrated literacy, science, social studies and mathematics |  |  |  |  |  | ELD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Kindergarten$80: 20$ | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | $90 \times$ |  |  |  |  |  |  |
| $\begin{aligned} & \text { 1st Grade } \\ & 70: 30 \end{aligned}$ | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | 85 \| 15 |  |  |  |  |  |  |
| 2nd Grade65:35 | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | 80 \| 20 |  |  |  |  |  |  |
| 3rd Grade$50: 50$ | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | 65 \| 35 |  |  |  |  |  |  |
| 4th Grade$40: 60$ | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | 35 | 65 |  |  |  |  |  |
| 5th Grade$40: 60$ | Literacy |  |  | Mathematics | Science | Social Studies | ELD |
|  | 35 | 65 |  |  |  |  |  |



Mathematics
Spanish instruction with Spanish language development, The Bridge and English extensions

Spanish

English

## Step 4: The Details

## Sample LAP for K-1

| Key: Blue = Spanish, Green = English |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade Level | Breakfast / Morning Routines | Literacy | Leader in Me | Math | Social Studies/ Science | ELD | Comments |
| $\begin{gathered} \mathrm{K} \\ 90: 10 \\ \\ 280 \\ \min \\ 45 \mathrm{~min} \end{gathered}$ | 20 mins. | 2 hrs 10 mins ( 45 phonics \& Writing) <br> 150 mins. of Benchmark <br> December: Bilingual book bags <br> 1-2 Interactive Read Alouds 3rd week of each benchmark Unit | 20 mins. | 60 mins of Bridges | 30 mins . | 45 mins. | Add one English title to current Sp books bags (OId E Mondo Tittles w/ Santos') |
| $\begin{gathered} \text { 1st } \\ 80: 20 \\ \\ 250 \\ \text { min } \\ 75 \mathrm{~min} \end{gathered}$ | 20 mins. | 2 hrs 10 mins ( 45 phonics \& Writing) <br> 50 mins. of Benchmark <br> Units 1-8 \& 10 <br> Unit 9 <br> November: Add English books to book bags Throughout the year: Lotta Lara (we need to decide when) <br> At Second semester, " Teach approx, 4 small group texts in Spanish and then 1 in English on a rotating basis for all students. <br> During Spanish units of instruction, consider teaching 2-4 shared reading lessons from weeks 3 in English instead of Spanish Reinforce skills that students have mastered in Spanish and emphasize vocabulary and oral language development. | 20 mins. | 60 mins of Bridges <br> 3 Number Corner in English <br> https://docs.google.com/document/d/ 1qWa_eU2pKOEx1Zpx06menZ7BW sGBpSKzJ2hQDRtDvg/edit <br> https://docs.google.com/document/d/ 1KEvorglA7o-holQorknsQzZLrP2bS Sv75u4AAo5d8Ro/edit <br> https://docs.google.com/document/d/ 1QYAi3PRQvitryiy_DwougzlV Zw_g 3irhuONWEzPKyM/edit <br> 1 workplace in English <br> https://docs.google.com/document/d/ 1-JeaVt\|ZaXg7PdGcnQKFebNu3uLu OH9 XxkEh1dh9E0/edit | 30 mins. <br> During Unit 9 <br>  <br> Social <br> Studies <br> In L1 | 45 mins. | Agregaremos libros en inglés a 'student book bags' al igual que a la biblioteca. |

## The more

detailed, the
better!


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## Leader and Community Buy-In



Implementation


Strengthening Bridges between Languages <br> \section*{Teaching for <br> \section*{Teaching for Biliteracy} Biliteracy}

KAREN BEEMAN

CHERYL UROW



## Let's circle back on that.




$$
\begin{array}{r}
\text { Wande } \\
\text { yow }
\end{array}
$$

