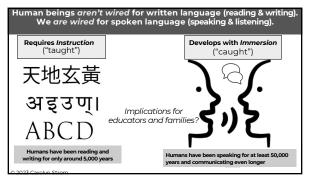
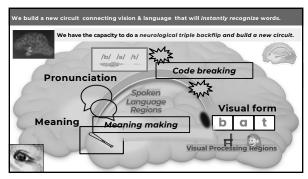
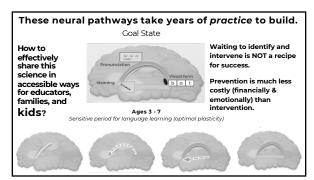


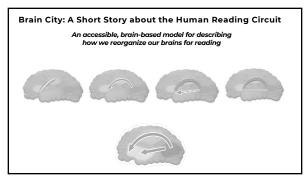
Misconc	eptions & Scientific Principles that Refute Them
Misco	nception 1: Reading is acquired naturally, like speech.
re	Humans brains are wired for speaking, not eading. Thanks to <i>brain plasticity</i> , we can rewire for reading.
words o <i>sp</i>	nception 2: Learning to read starts with memorizing shapes of or "sight" words.  Mapping (not memorizing) supports neural pecialization, which is required for ficient reading.
"drill & ∘ co	nception 3: Explicit, code-based instruction (i.e. "Phonics") leads to a k kill" mindset focused on words "out of context" : Automaticity as a non-negotiable for omprehension. Learning circuitry and emotional circuitry are onnected. We must frame as "thrill and skill."



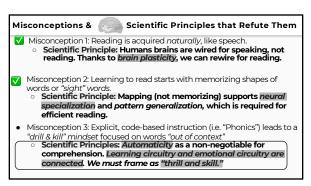
Brain Plasticity: A Rhyme	for Families (Strom 2021)			
Mv Brain My brain is plastic, so fantastic Just like elastic, changes can be drastic! The more I learn, the more my brain changes And rearranges!	Mi cerebro  Mi cerebro es de plástico, tan fantástico ¡Al igual que el elástico, los cambios pueden ser drásticos!  Cuanto más aprendo, más cambia mi cerebro	Wô de não 我的大脑 wô de dã não shì yôu kẽ sú xìng de , fãi cháng qi mião 我的大龍戶門包括的,非常市勢 jiù xiáng sông jin dài yí yáng , huì yôu fếi cháng ji dông rên xin de biãn huà 就像欢客一样,会有非常激动人心的变 化 wo xué de yuè duō , wô de dã não		
	¡Y se reorganiza!	jiù huì biàn huà de yuè duō 我学的越多,我的大脑就会变化的越多 hái huì zuò chū tiáo zhěng		
4		还 <b>会散出调整</b>	l	
Review of Brain Plas	ticity Principle		<u> </u>	
	read is <b>not like learning</b>	how to talk But, because create a new circuit for it.	<u> </u>	
Reading	is taught not	caught	-	
share with a colleague? No Key takeaways or main Anchor image to remer Application to your inst Whole group class Small group interv	mber the concept? ructional setting? room?	ean for your instruction?		
5		Table 1 and 1 Annual Control	I	
Misconceptions &	Scientific Princ	iples that Refute Them		
<ul> <li>Scientific Prince</li> </ul>	ading is acquired <i>natural</i> iple: Humans brains are s to <i>brain plasticity</i> , we	wired for speaking, not	<u> </u>	
words or "sight" word  • Scientific Princi  specialization a	ple: Mapping (not memo nd pattern generalization	memorizing shapes of orizing) supports neural on, which is required for		
"drill & kill" mindset f	olicit, code-based instruct focused on words "out of	tion (i.e. "Phonics") leads to a context"		
<ul> <li>Scientific Princi comprehension</li> </ul>	ples: Automaticity as a	non-negotiable for emotional circuitry are		

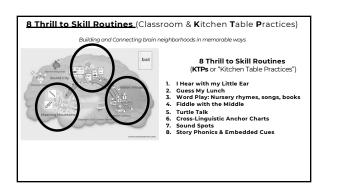


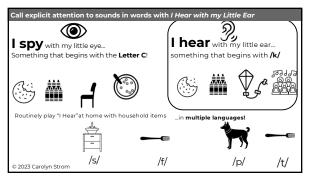


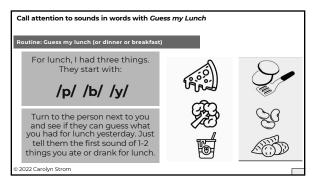


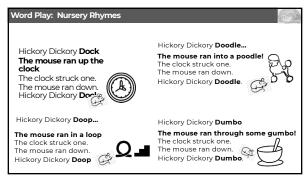
## Review of Neural Specialization Principle Principle #2: For reading, brain regions become increasingly specialized for letter patterns and for processing parts of written words Brain City What big idea do you want to remember? Key takeaways or main point of this principle? Anchor image to remember the concept? Application or relevance to your instructional setting? Whole group classroom? Small group intervention? School wide leadership and family partnerships?











## Word Play: Songs

What happens to "Happy Birthday to you!" when you change the

initial phoneme to /**m**/?

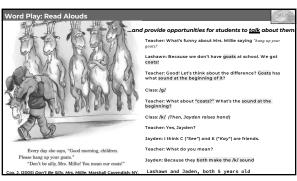


@PhonicsMan

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Word Play: Can you solve these hink pinks or "mash ups" (portmanteaus) that combine sound play and meaning? Other word play games?

- Humorous rabbit
   Funny bunny
   Upset father
   Sad dad
   Lengthy tune
   Long song
   Tub time rage
   Bath wrath
   Dental detective
- Dental detective
   Tooth sleuth
- Light red beverage
   Pink drink
   Short bush
   Shrub stub





Hangry?
• Hungry + angry
Spork?
• Spoon + fork Cockapoo?

Cocker spaniel + poodle

Brunch?

Breakfast + lunch

Appletini?

• Apple + martini

Webinar? Web + seminar
Flagel?
 Flat +bagel

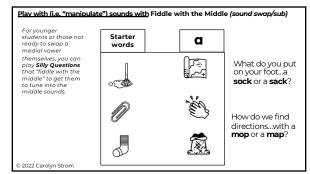
Athleisure?

• Athletic + leisure

Nes? (3 year old generated)

• no + yes

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