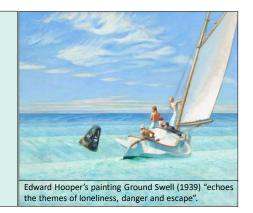
How to Keep Executive Function Functioning When Everything is Whacked!

How do I get kids to "think positive & act smart?" Day 3



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Kathleen M. Kryza, MA www.kathleenkryza.com kkryza@me.com

1

- Reslience
- Perservere
- Give back
- What part of life can you control. How and where can you give them control
- Less screen time more activity
- Model positive coping behaviors the lessons you teach now will last a lifetime.
- Relax some restraints within the science

2



WELCOME

Today

- ➤ Practices for Healing Stress and Anxiety
- ➤ Creating Healing Classrooms

Mindful Moment: **Loving Kindness Meditation**







Routines & Procedures

- Mindful Moments/
- Brain Breaks
- Chat
- Reactions





7

Blending Education and Psychology

- ➤ We hope these webinars provide school psychologists with a way to collaborate with teachers to help students think smart and learn in this unusual time
- The strategies we share will help ALL OF US cope better with the demands of our new world.
- And especially those who are struggling because of their executive function is not functioning



How to Think Smart: Planning (EF)

- The ability to plan (pre-frontal cortex) helps you figure out "how to do things you choose to do"
- You can be smarter if you PLAN before doing things
- THINK SMART and use a PLAN when doing things!
- After your done, think about how to do it better next time
- Use EF to engage Attention, Successive and Simultaneous basic psychological processes
- Remember that when you are scared, tired or doing too many things you might forget to plan so say to yourself "Stop and use a plan".



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Expressions of EF

➤ A comprehensive approach to understanding and assessing EF should include the multiple ways the concept is expressed.

Behaviors related to Cognition

Behaviors related to Social-Emotional Skills

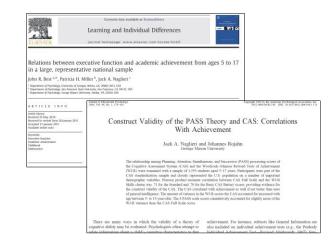
Academic and job skills

Frontal Lobes are the Neurocognitive Foundation (But don't forget the rest of the brain)

10

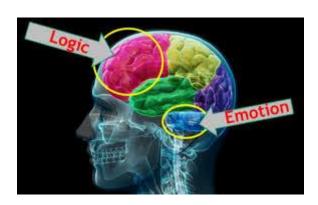
EF and Achievement (Naglieri & Rojahn, 2004)

- Correlation between
 Executive Function
 (Planning + Attention) with
 achievement = .51 (N =
 1,559) is stable across 5-17
 year range
- EF scores added significantly to the prediction of achievement after Simultaneous and Successive scores from CAS



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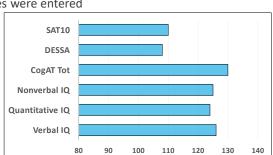


Executive Function Behaviors, Intelligence, and Achievement test scores

12

Kong (2013): IQ, SEL & Achievement

- > For 245 students in gifted programs
- ➤ DESSA Social emotional rating scale (72 items) Total score correlated .44 with Achievement (reading, math, language), the CogAT Total .36
- Hierarchical regression analysis showed that CogAT did not add to the predication of achievement after DESSA scores were entered
- Considering DESSA social emotional scores as another way to assess the frontal lobes (i.e., Executive Function) these results make sense because CogAT (like traditional intelligence tests) does not measure EF



13

DESS/

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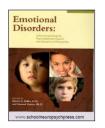
Phineas had Social Emotional Deficit

- Phineas had profound social emotional problems after his injury to his frontal lobes and he...
 - was insulting to others
 - impulsively said things
 - used vulgar language
 - could not manage his emotions
 - lost control in social interactions
 - was inconsistent in social situations
 - did not recognize he was offensive

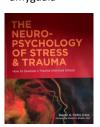
'very few researchers have merged cognitive [i.e. intelligence] and emotional aspects of frontal

THE NEW EXECUTIVE BRAIN FROM LLOSS IN A COMPLEX VOICE OF THE PROPERTY OF THE P

The relationship between Executive Function and Emotional Disorders is explained

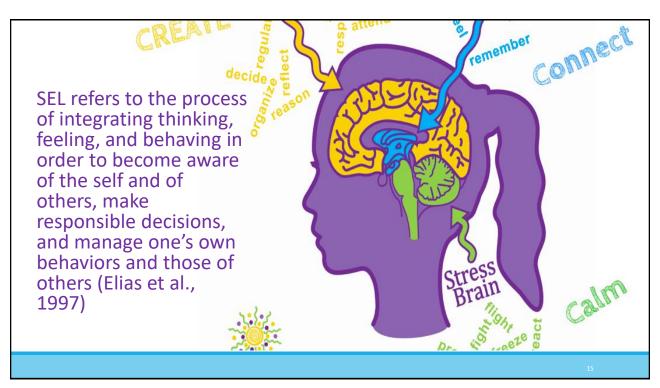


'The frontal lobes...play a key role in helping to selfregulate the amygdala'

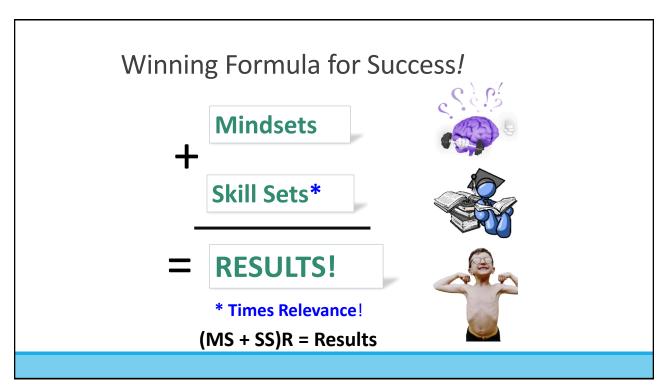


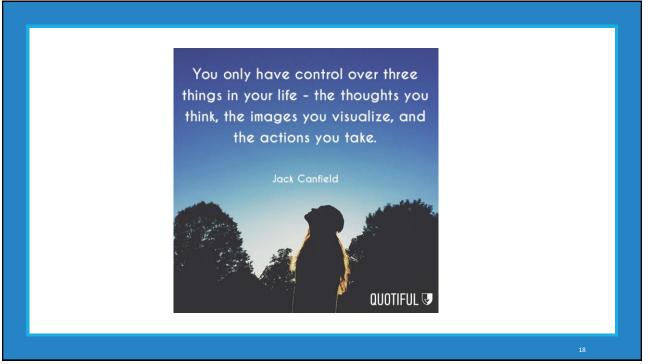
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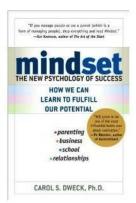








Carol Dweck, Stanford University



Not the New Self Esteem Movement! The quality of the effort matters.

19

Dweck's findings: Two Mindsets



Fixed mindset:

- Intelligence and talent fixed
- Innate talent creates success
- Effort will not make a difference
- You either get it or you don't
- **♦ LOOK GOOD AT ALL COSTS**



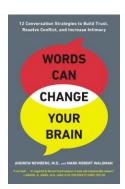
Growth mindset:

- Intelligence can be developed
- Brains and talent are just the starting point
- Enjoy effort and process of learning
- You can <u>always</u> grow and learn
- **❖ LEARN AT ALL COSTS**

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Our Words Matter

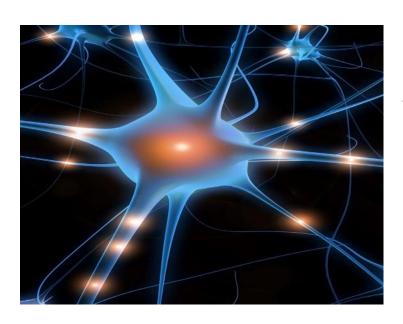
- A single word has the power to influence the expression of genes that regulate physical and emotional stress."
- Positive words, such as "peace" and "love," can alter the expression of genes, strengthening areas in our frontal lobes



- Hostile language can disrupt specific genes that that protect us from stress.
- A single negative word can increase the activity in the amygdala, releasing stressproducing hormones and neurotransmitters, which interrupts brain function.

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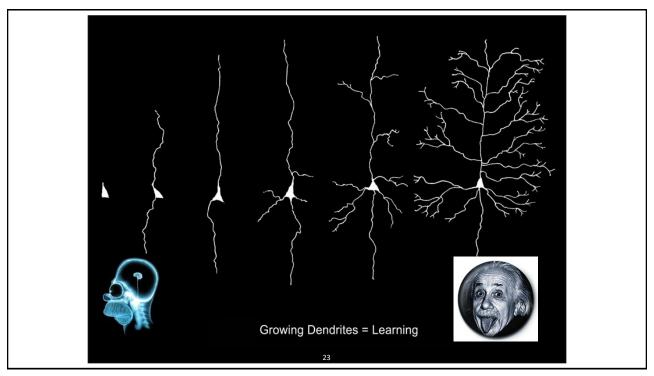
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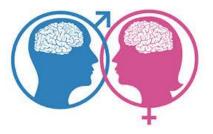
Neuroplasticity

- Neuroplasticity is the change in neural pathways and synapses that occurs due to certain factors, like behavior, environment, or neural processes.
- During such changes, the brain engages in synaptic pruning, deleting the neural connections that are no longer necessary or useful, and strengthening the necessary ones

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Gender and Developmental Differences in Executive Function

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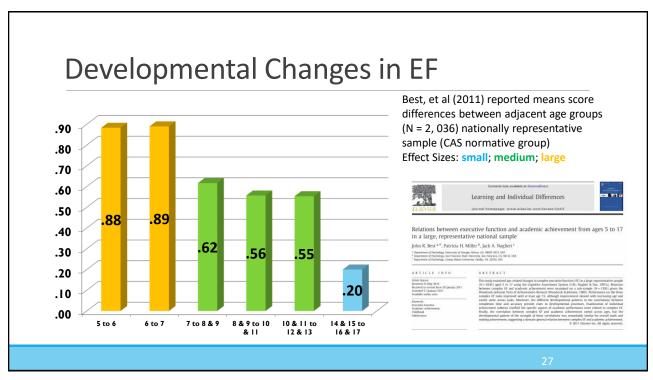
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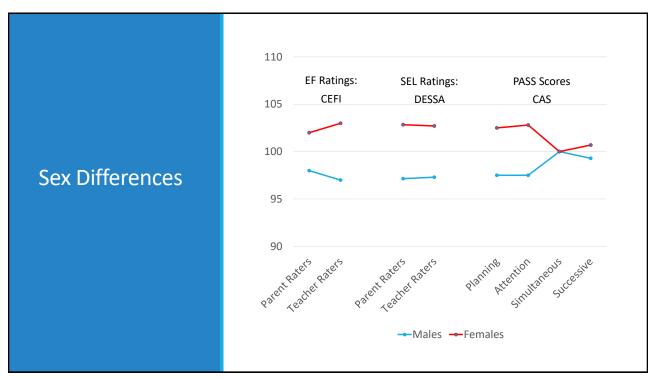
Use it or Lose It!

Teen Brain



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Sex Differences

Yes girls and boys are different in Executive Function

This means we have to be particularly aware of the need to help boys to Think Smart and use a Plan!



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RISK TAKING AND RESILIENCE

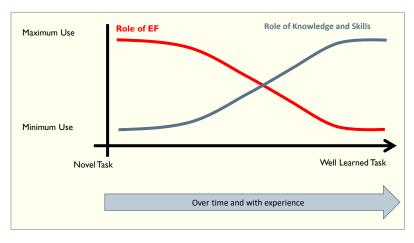
ROLE MODELS

PRAISE and LOCUS OF CONTROL

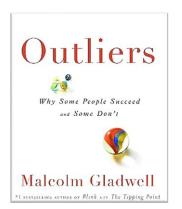
Developing Your Mindset

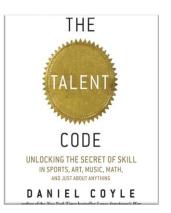
Learning Curves: Practice, Practice, Practice

(Goldberg, 2009; Naglieri & Otero, 2017)



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Practice, Practice!

Growth Mindset Books



Ish by Peter H. Reynolds



Beautiful Oops! by Barney Saltzberg



The Girl Who Never Made Mistakes by Mark Pett and Gary Rubinstein

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The Dot by Peter H. Reynolds



The Most Magnificent Thing

by Ashley Spires



What Do You Do With an Idea? by Kobi Yamada

, have chosen not to

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STUDENT CHOICE VERIFICATION FORM **Non-Completion of Assignment**

participate in the following classroom Chew activity.
Due Date:
I understand that by making a <u>fixed mindset</u> choice, I will not be engaged in the learning process and thereby will not be building neural connections that can improve my learning.

I understand that by making this choice I may be less prepared to handle the rigors of our competitive society. I understand that by choosing not to do this CHEW activity I may

be less likely to succeed in this course and in life.

In signing this document, I acknowledge that I understand the consequences of choosing not to participate.

Student Signature:



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Date: _____

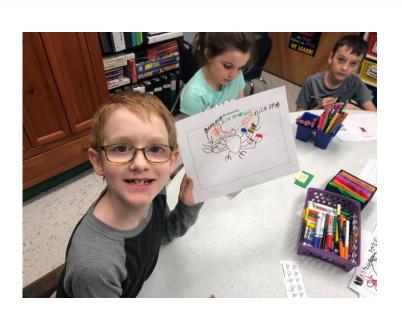
ROLE MODELS

Positive role models influence our actions and motivate us to strive to uncover our true potentials and overcome our weaknesses.

For More Examples of Growth Mindsets See Kathleen Kryza's Infinite Horizons You Tube Channel

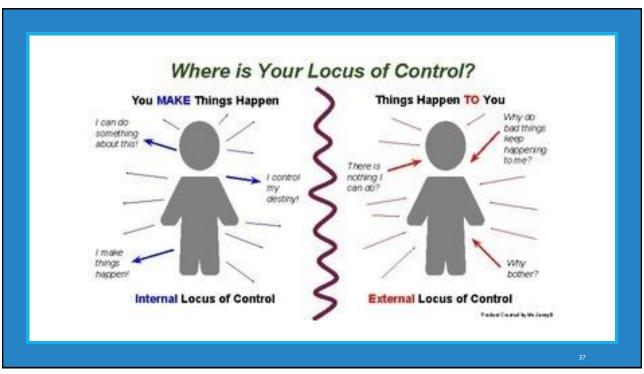
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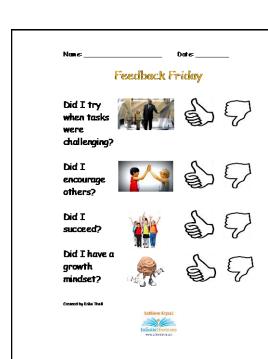


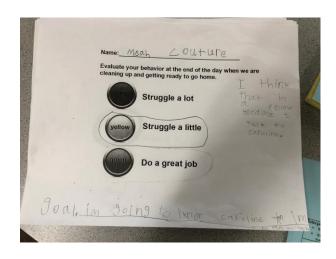
Growth Mindsets

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Measure of Mindset - Child Adolescent

Measure of Mindset: Teacher & Parent

Measure of Mindset (Teacher & Parent)

	Measure of Mindset (Child 8	k Ado	lesce	nt)					
Jack A. Naglieri & Kathleen M. Kryza - Copyright © 2015									
	Name	Date _							
Instructions: These 10 questions ask about how you think and feel. The answers you give can help us know your thoughts about how you learn. Please read every question carefully and circle the number under the word that tells what you do. **Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref									
1	I give up easily.	erine 0	1 Clime	Alma)	3				
2	When things get hard I say, "I can do it!"	0	1	2	3				
3	When I fail I try harder until I get it done.	0	1	2	3				
4	I believe that I can learn from my mistakes.	0	1	2	3				
5	I think I can do almost anything if I try hard enough.	0	1	2	3				
6	When I don't understand something I give up.	0	1	2	3				
	I do not like to be challenged.	0	1	2	3				
/				2	3				
	When work is hard I think, "I can not do it."	0	1	2	9				
7 8 9	When work is hard I think, "I can not do it." When things get hard I do something else.	0	1	2	3				

Jack A. Naglieri & Kathleen W. Kryza - Copyright © 2015									
Name	Date _			_					
structions: These 10 questions ask about a child or adolescent's attitudes toward learning. ease read every question carefully and circle the number under the word that tells what you ave observed about your child.									
4	Smetime	Most time	Alway	5					
He/she doesn't give up easily.	0	1	2	3					
When things get hard he/she says, "I can do it!"	0	1	2	3					
Failure leads him/her to try harder until the task is finished.	0	1	2	3					

1	He/she doesn't give up easily.	0	1	2	3
2	When things get hard he/she says, "I can do it!"	0	1	2	3
3	Failure leads him/her to try harder until the task is finished.	0	1	2	3
4	He/she views failure as an important part of learning.	0	1	2	3
5	He/she believes that you can do anything if you try hard enough.	0	1	2	3
6	He/she is afraid of failure.	0	1	2	3
7	When things get hard he/she avoids the work.	0	1	2	3
8	He/she believes that hard work usually does not pay off.	0	1	2	3
9	He/she is fast to give up on a task.	0	1	2	3
10	He/she sees failure as proof of a person's limitations.	0	1	2	3

(Naglieri & Kryza, © 2015 May be duplicated for educational use only.)

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Time for a Brain Break

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Tree Pose: Grounding Balance Pose

Limbic System: learning, emotions (Amygdala)

Emotions and the Brain

- The limbic system controls functions necessary for self preservation - flight, fight, freeze.
- The *limbic system* is the "feeling and reacting brain."
- The *frontal lobe* is the "thinking brain."

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Think SMART! (Naglieri & Kryza, 2014)

 $\underline{\mathbf{S}}$ top and THINK

Make a PLAN

Take $\underline{\mathbf{A}}$ ction!

Review/Reflect/Revise

Ta da! (or) Try Again



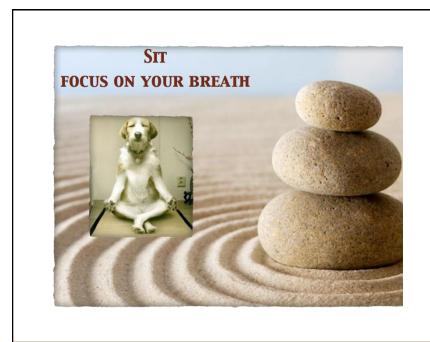
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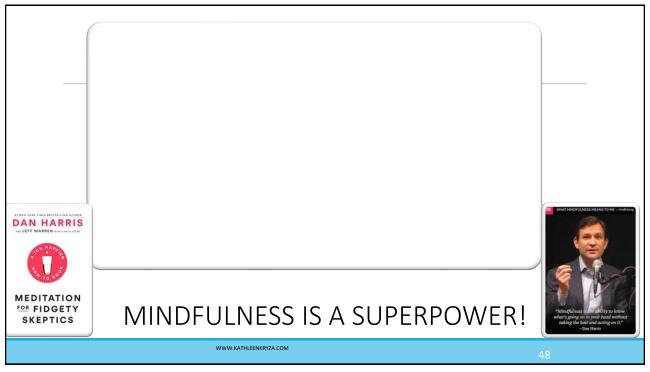
In Compounded Grief,
1+1 no longer equals 2.
Effects multiply til
even the strongest
hearts get overloaded.
Take extra care.
Give extra time.
Never rush or judge.

46

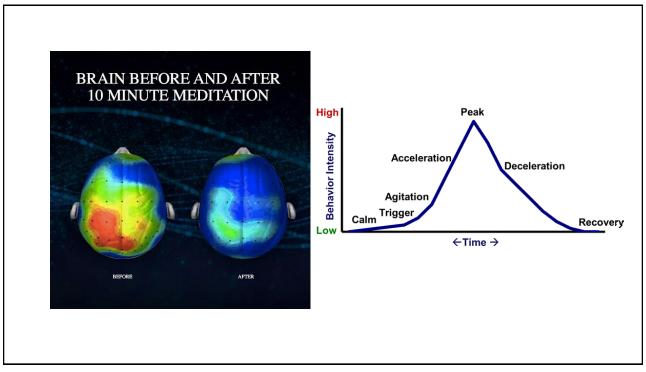


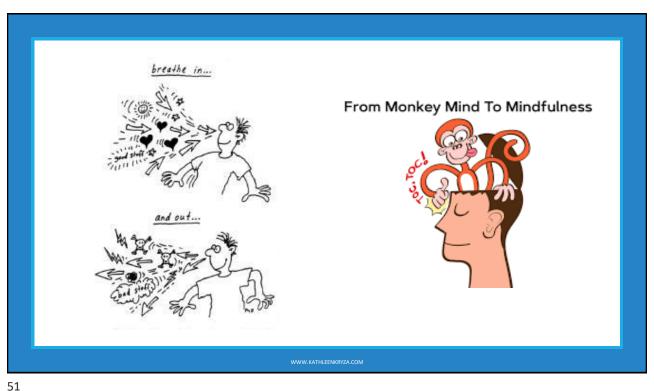
Practice Mindfulness

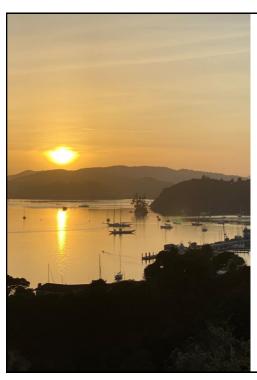
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Simple Mindfulness **Practices**

- ➤ Quiet Place Real or Envisioned
- Mindful Movement
 - Calm or Energize
- Grounding on the Floor, Earth, Tree
- Mindful Walks, Eating
- > Peace Hour (or 10 minutes!) as a family
- Peace corners
- > Breath In Peace, Breath Out Love

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Sooth Your Nervous System TOUCH ACTIVATES THE CARE SYSTEM, AND CALMS THE NERVOUS SYSTEM.



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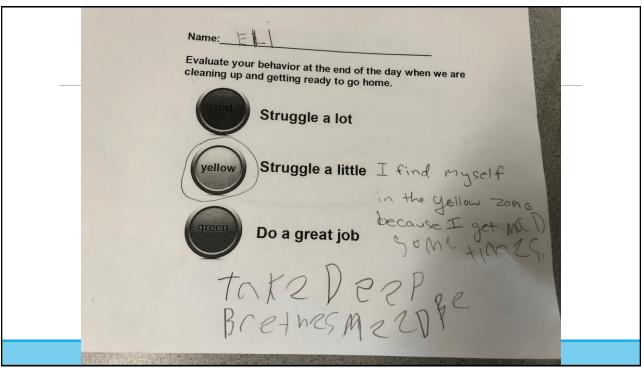






Mindfulness Apps for Kids

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Everyone's Doing Yoga!

During yoga, your brain releases the calming "feel good" chemicals that you relax and lower your stress and anxiety levels gamma-aminobutyric acid(GABA), dopamine, oxytocin, serotonin, and endorphins.

(Check Out: brogayoga.com)

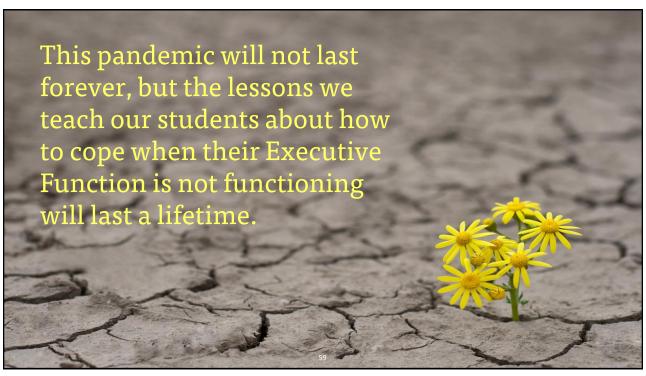


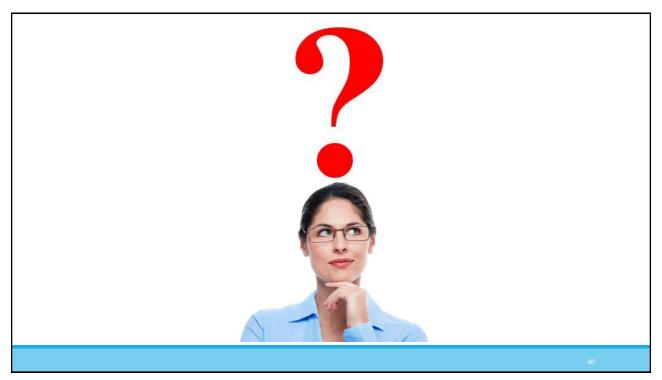
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Tips and Takeaways



- Motivation and Mindsets matter in growing neural connections. Teach intentionally and transparently.
- > Practice, Practice, Practice
- Build a toolkits of practices to use to put the PFC back in charge.
- MINDSETS + SKILLSETS = RESULTS!!!
- Be Kind and Be Gentle with Yourself.

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Please be in touch with us directly for information about additional presentations and consultations

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