Strengthening Self-Regulation and Executive Functioning in Children and Adolescents



kkmorris@aol.com

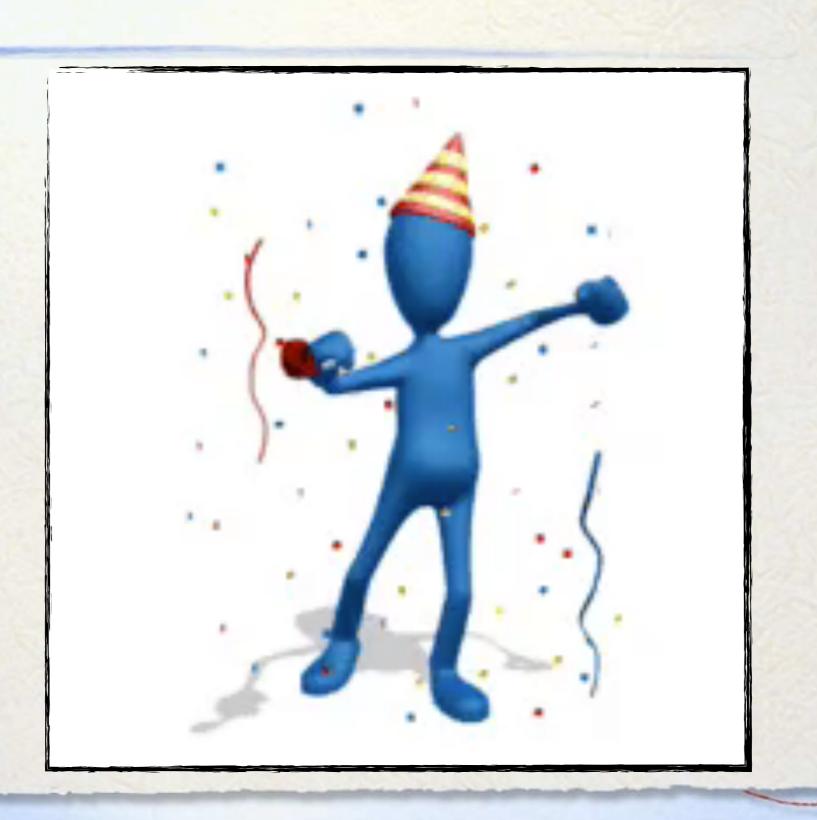
igivu Wings

www.igivuwings.com



Kathy Kaluza Morris

ThatsMal



Executive Functioning Disorders Knowledge Scale

I already know . . .

3 - 5









AND...
IT WILL BE FUN
AS WELL AS
AS INULATING!



Laughter oxygenates the brain



IDENTIFYING

HIGH INTEREST AREAS







High Interest Area

Ya think?





AGENDA

8:30ISH WELCOME/OVERVIEW SCHEDULES TRANSITION MARKERS SURPRISE CARDS EXECUTIVE FUNCTIONS 10:00ISH BREAK NEUROANATOMY PSYCHOLOGICAL/DEVELOPMENTAL DISORDERS LEVELS OF TALKING POWER CARDS KEYCHAIN RULE METACOGNITIVE STRATEGIES SELF REGULATION STRATEGIES ADIOS

Research on autism:



Studies have documented that schedules and routines influence children's emotional, cognitive, and social development.

- Predictable and consistent schedules in classrooms help students feel secure and comfortable.
- Schedules and routines help children understand the expectations of the environment and reduce the frequency of behavior problems, such as tantrums and acts of aggression.

-Ostrosky, Jung, Hemmeter, Thomas

What does research say?



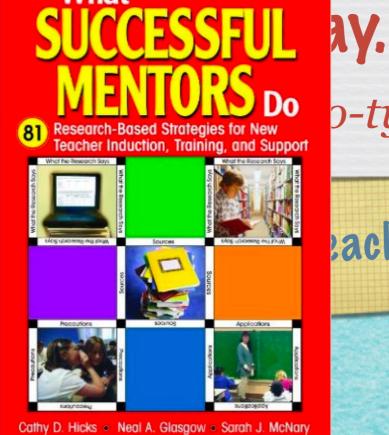




Using an agenda of the day's lesson makes learning more relevant to students and takes the mystery out of what is going to

NOTE: This research

★What Successful Me
81 Research-Based Str
Train



p-typical individuals.

eacher Induction

Routines and schedules



The Organization for Autism Research in collaboration with Fairfax County (VA) Public Schools presents



Don't take away their schedules!

Schedule & Transition Marker





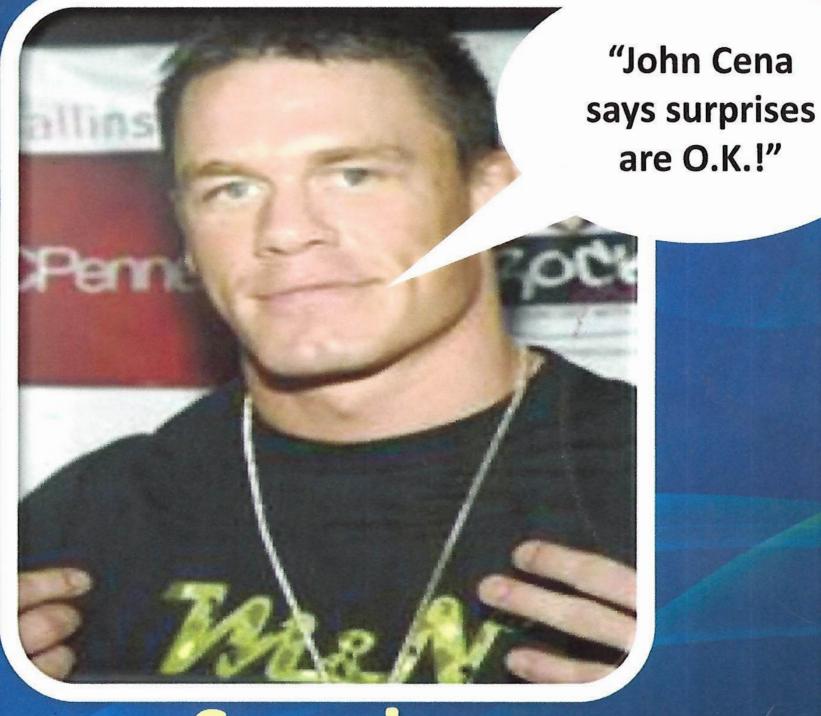
Surpilse







I can handle it.
I'll remember that it may be a surprise to others as well.

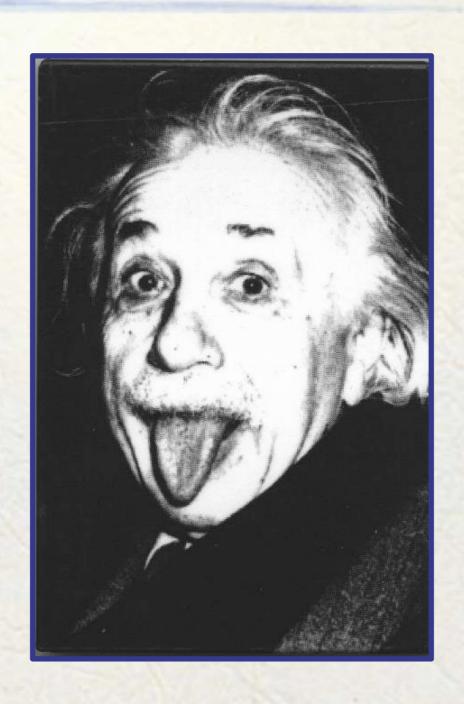


Surprise



Surprise Card

SURPRISE!



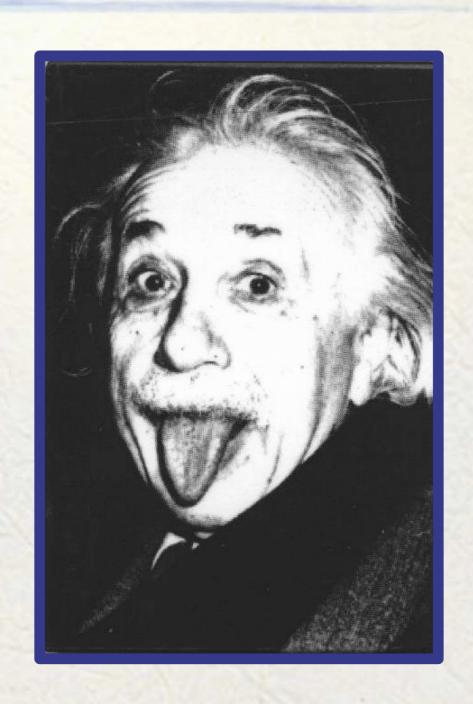
Sometimes...



 There are changes or surprises in my day.

• THAT IS

When someone gives me this card:



This means...

there is a change or surprise.

and that is OK!

Suggist







I can handle it.
I'll remember that it may be a surprise to others as well.

Change in Schedule







Anticipating change...

Helps to respond to change!

-Lisa Rogers

Ready for a break??

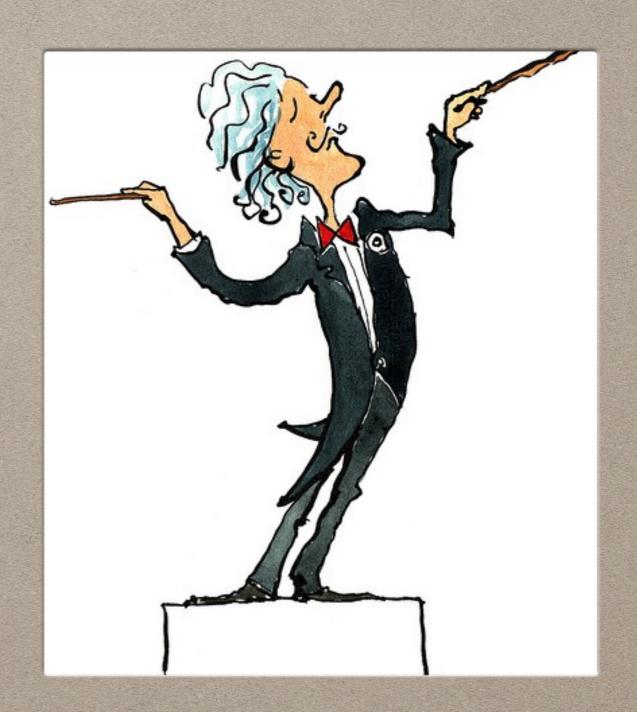


WHAT ARE EXECUTIVE FUNCTIONS? NO FORMALLY AGREED UPON DEFINITION.

The Conductor or CEO of the Brain

This theory states that EFs are a single, unitary cognitive control process that directs all thought and behavior

(McCloskey, Perkins, & Van Divner, 2009)



EF'S AS CO-CONDUCTORS OF THE BRAIN'S ORCHESTRA

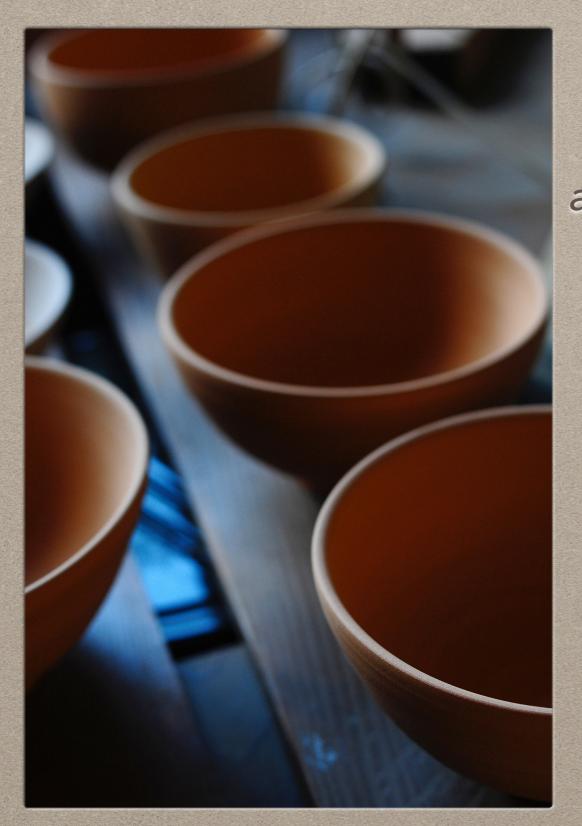
 Set of multiple cognitive capacities that act in a coordinated manner

(McCloskey, Perkins, & Van Divner, 2009)



Multi-dimensional Construct

(McCloskey, Perkins, & Van Divner, 2009)

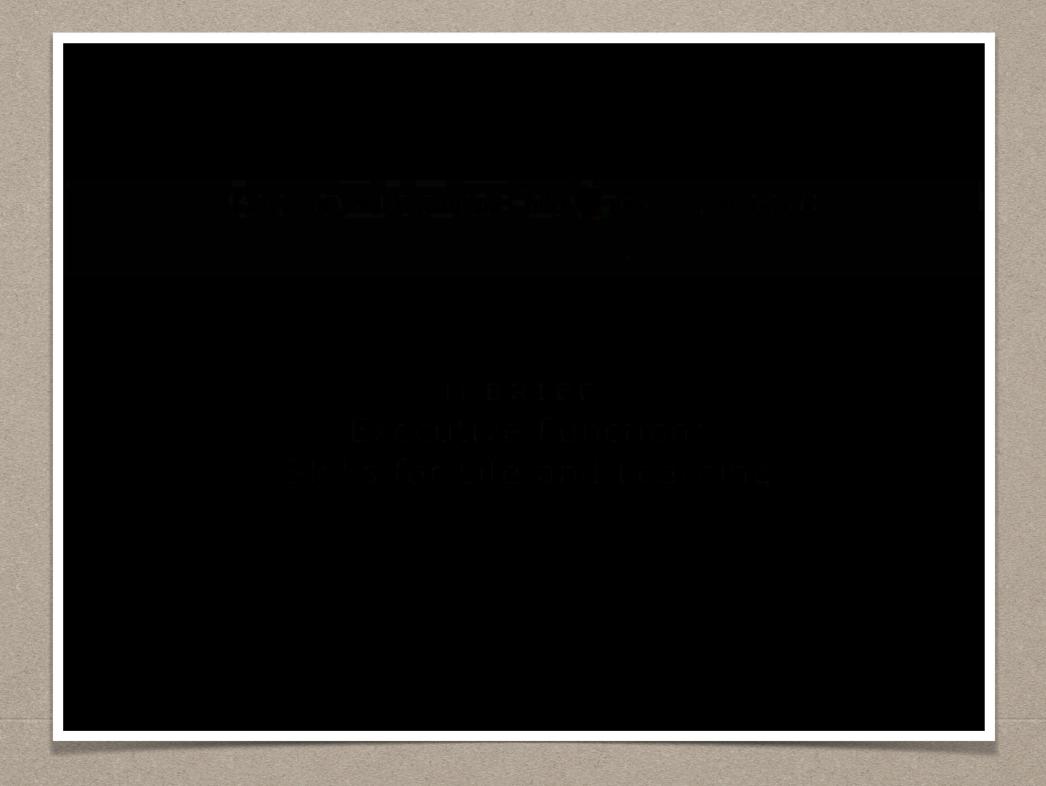


Cognitive neuropsychological construct that is used to represent a set of neural mechanisms that are responsible for cueing, directing, and coordinating multiple aspects of perception, emotion, cognition and action





Take lots of notes!



WHY EXECUTIVE FUNCTIONS

ARE SO IMPORTANT

I hope you took lots of notes!



- 1. Please share in the breakout room 1 or 2 thoughts with your breakout room partners.
- 2. Start with the one closest to Winnipeg and go from there!!!

 3. See you back in 3 minutes

We prepare dinner while simultaneously helping our children with their homework and making notes about appointments we need to schedule for the week. We focus on our jobs when we need to and our families when they need us. We remember the phone number that our neighbor just gave us so we can write it down as soon as we find a pen. We take a deep breath, rather than honk, if the car in front of us fails to move immediately when the light turns green.

Executive function skills help us plan, focus attention, switch gears, and juggle multiple tasks—much like an air traffic control system at a busy airport. Acquiring the early building blocks of these skills is one of the most important and challenging tasks of the early childhood years. Their strength is critical to healthy development throughout childhood, adolescence, and early adulthood.

Executive Functioning Components

Metacognitive Strand Emotional Regulation Strand

Executive Functioning Components

Metacognitive Strand



Awareness and understanding of one's own thought processes.

Includes-

Goal setting

Planning and strategizing

Sequencing

Organization

Time management

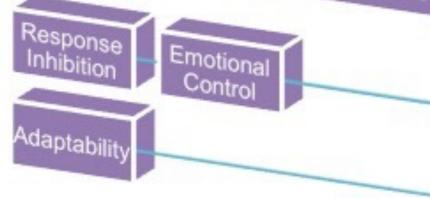
Task initiation

Executive attention



Executive Functioning Components

Social/Emotional Regulation Strand



Self-Regulation

- ★ Working Memory (Adaptability)
- ★ Inhibitory control (Response Inhibition)
- ★ Mental Flexibility (Emotional Control)



At what age do you think executive functioning skills are fully developed?

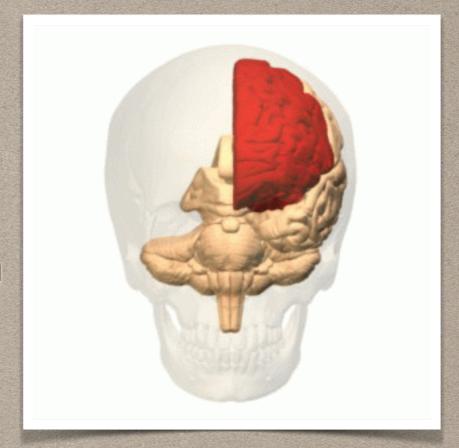
Answer:

These skills are fully developed in adulthood.



NEUROANATOMY

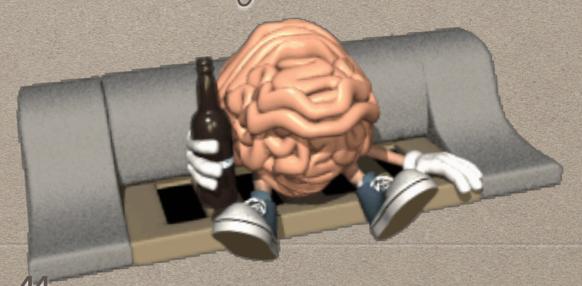
- frontal lobes
- prefrontal lobes (associated with behavioral and personality



changes)

The brain develops back to front so the prefrontal cortex is not fully mature till age 25.

Yes, Your Teen is Crazy! Michael J. Bradley, 2002



PSYCHOLOGICAL AND DEVELOPMENTAL DISORDERS ASSOCIATED WITH EF DEFICITS

- *****ADHD
- ***** Learning Disabilities
- ***** Autism Spectrum Disorders
- ***** Mood Disorders
- * Obsessive Compulsive Disorders
- ****** Tourette's Syndrome
- ***** Schizophrenia
- * Antisocial Personality Disorders
- ****** Borderline Personality Disorders

Suchy, 2009

Laughter oxygenates the brain



Supporting frontal lobe or executive skills



- Surprise cards/Change of
 - schedule
- Levels of Talking
- Power Cards
- **Keychain Rules**
- Reminder Cards
- Social Stories
- **T-charts**



Structuring the

Environment:

- Physical Structure
- Visual Cueing

Supporting frontal lobe or executive skills



- Surprise cards/Change of schedule
- Levels of Talking
- Power Cards
- **Seychain Rules**
- Reminder Cards
- Social Stories
- T-charts



Structuring the Environment:

- Physical Structure
- Labeling

Levels of Talking		Expected Behavior	Looks like
4	Outside voice where it is noisy	So others can hear you above the noise!	The same of the sa
3	Only people at your table can hear you	Table Talk	
2	Only your partner can hear you	Hello!	
1	Library voice	Whisper	PLEASE USE YOUR LIBRARY VOICE!
0	Quiet voice	Shhhh	

On stage voice only		On stage so others can hear	
4	Outside voice where it is noisy	So others can hear you above the noise!	The state of the s
3	Only people at your table can hear you	Table Talk	
2	Only your partner can hear you	Hello!	
1	Library voice	Whisper	PLEASE USE YOUR LIBRARY YOUR!
Ο	Quiet voice	Shhhh	

Power Cards

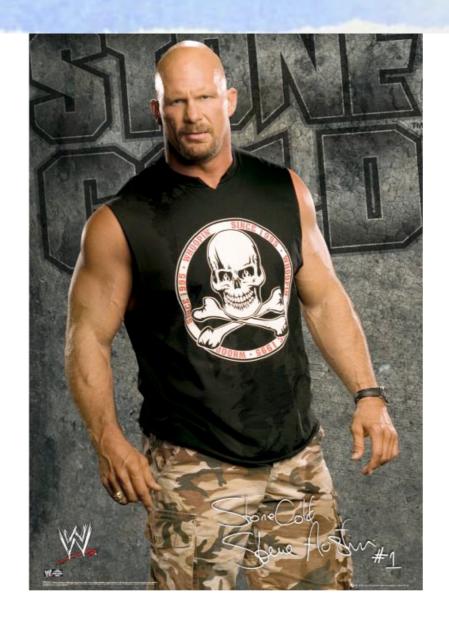
1. A brief scenario or character sketch describing how the hero solves the problem.



The POWER CARD which recaps how the child can use the same strategy to solve a similar interest.

Sheldon and Super Hero





"Stone Cold" Steve Austin talks in a very loud voice on stage. He wears black boots and stomps people on stage. He uses a stranglehold on his opponents on stage.

Off stage, Steve Austin talks in a library voice to his children when he reads stories to them at night. He does not hurt his wife or children by choking them or stomping on them. He is off-stage.

Just like me. I will use my library voice or my partner voice at school and home. I will use my Stone Cold voice only on stage. Just like Steve.

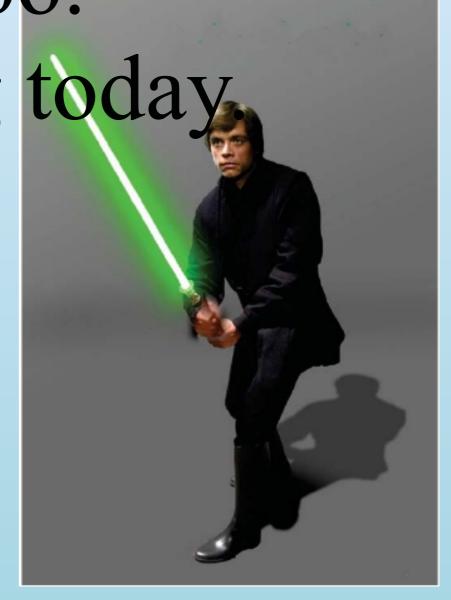
The following 4 slides are from Ron Haggerton, principal from Highland MiddleSchool, Hobbs, NM

Luke Skywalker changed You can change too.

Change is coming today.



The force is strong in you and it is OK.

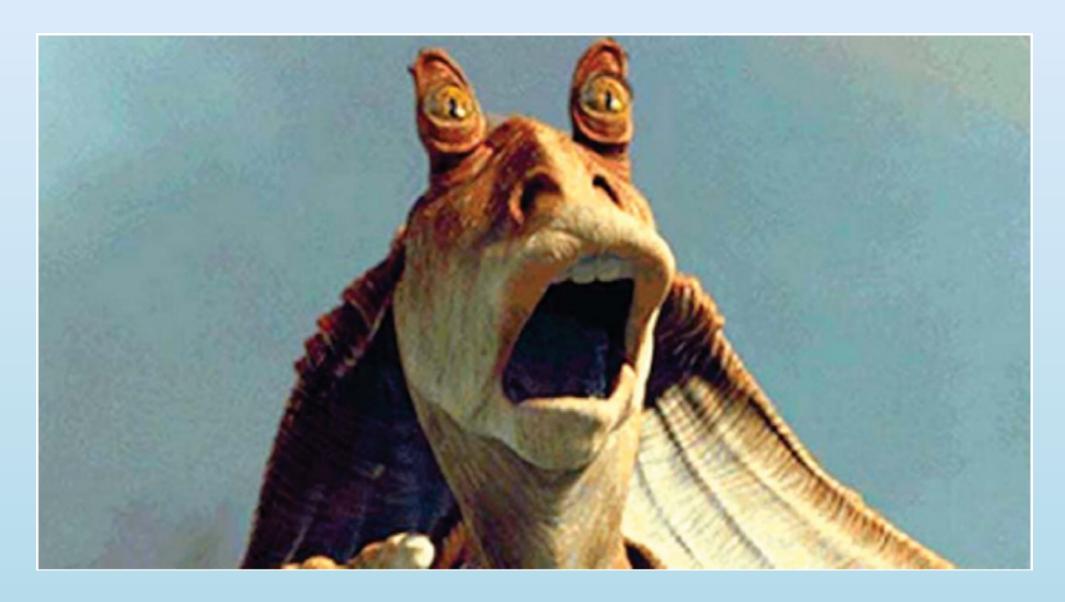


When Luke gets frustrated, he sees Obi-Wan.



When I get frustrated, I go see Mr. Haggerton.

Jar Jar got surprised today.



Today you are getting surprised too. We are changing the schedule for today.

Sometimes Chewbacca needs a time out to pull himself together



Its OK to take a few minutes to get calmed down.

Brendan's Jedi Power Card

I am Luke Skywalker and I have some great ideas to share with others. I like to raise my hand and answer the question.

The teacher needs to call on other students so that they can share their ideas, too. I want my friends to have a chance to answer.





To become a Jedi requires the deepest commitment and most serious mind. It is not a venture to be undertaken lightly. As such, Jedi instruction is rigidly structured and codified to enforce discipline and hinder transgressions.

Brendan's Jedi Power Card



When the teacher calls on someone else in class, Luke Skywalker wants you to remember that you can do one of the following things:

□Wait and listen

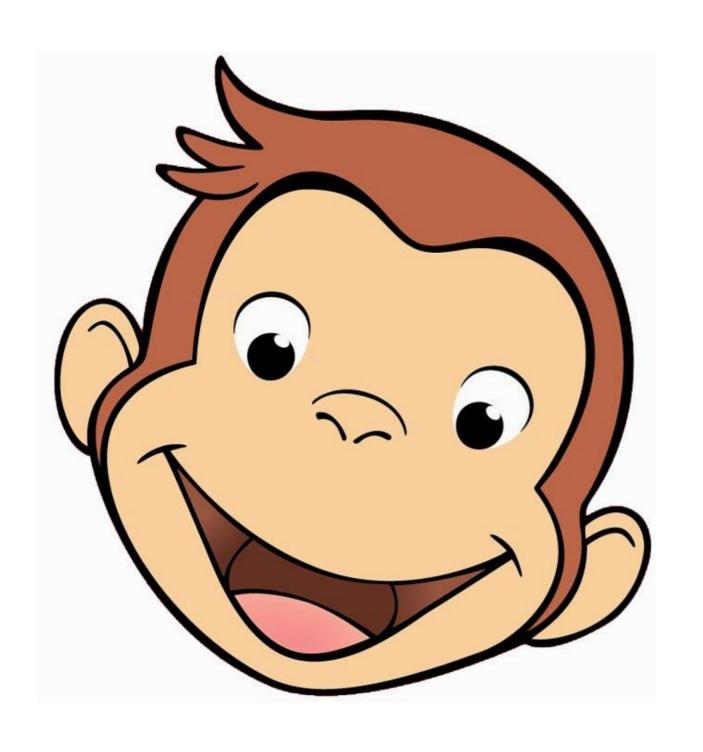
☐ Take one or two deep breaths

☐Write your answer down on paper

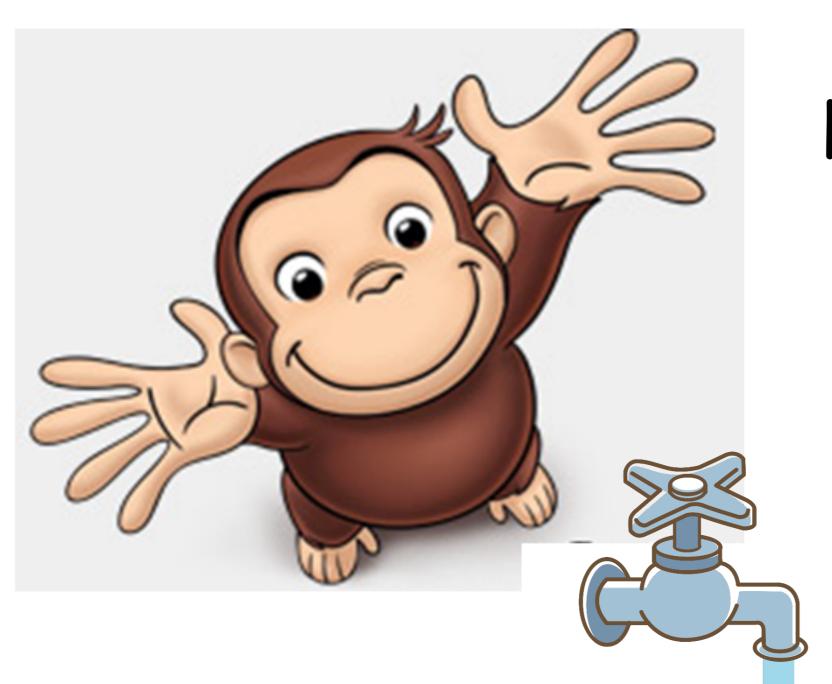
□Other:

May the force be with you, Brendan!





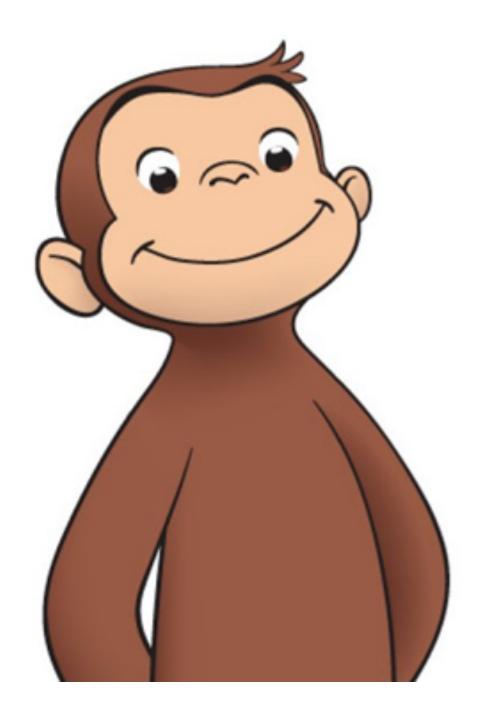
Hey friends, my name is George. It's time for lunch! I'm going to share with you how I eat lunch at school.



First, I wash my hands to get all the germs off.

Next, I go find my seat. The one the teacher puts me in.





I wait for my teacher to bring me my food.





I raise my hand and wait if I need something opened or if I have a question.





I eat and enjoy my food.

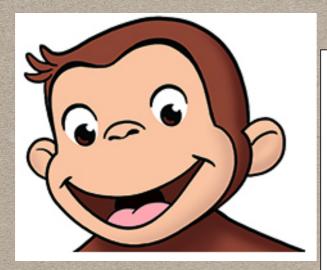


I save my dessert for last.

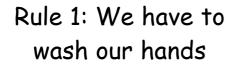


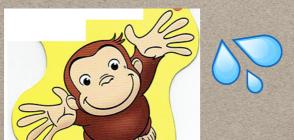
I sit and wait for my teacher to tell me when to get up.

LUNCH WITH CURIOUS GEORGE



George says, "It's time for lunch! There are a few simple rules we have to follow at lunch time, Sawyer."





Rule 2: We have to try some of our food



Rule 3: We have to stay in our seat until the teacher says to get up

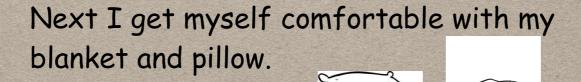




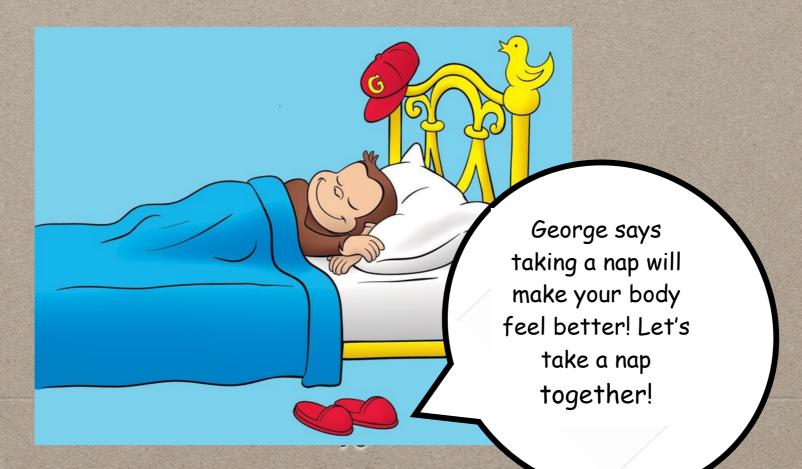
NAPS WITH CURIOUS GEORE

George says, "Sawyer, it's time for a nap." I'll show you how I take a nap at school.

First I lay down on my nap mat.

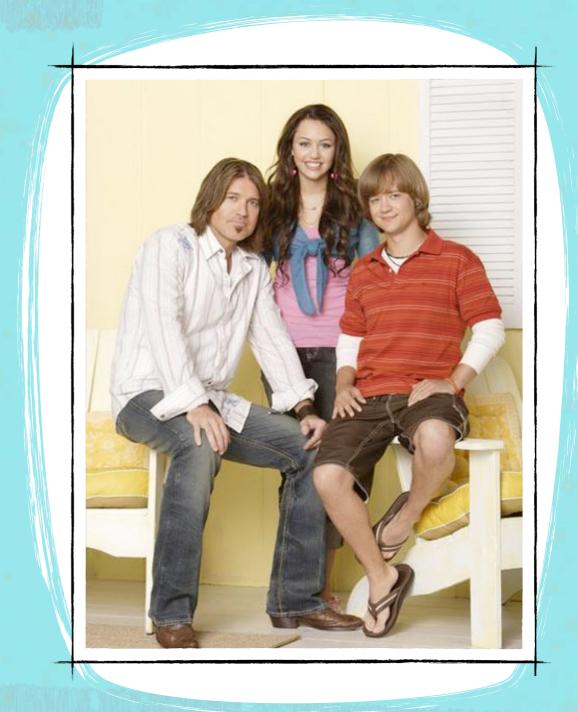


Last I close my eyes and go to sleep.



Sometimes Miley wants to do something else instead of working

But.. her agent booked her. UH-OH....





She must go to work and be HANNAH MONTANA

When Hannah is having a bad day..

She might say, "I didn't sign up for this!"

- * But..Hannah is a professional.
- * She does her job without complaining...



Just Like me.

- *I may not have

 "signed up" to be a

 student
- ** But, I will be like

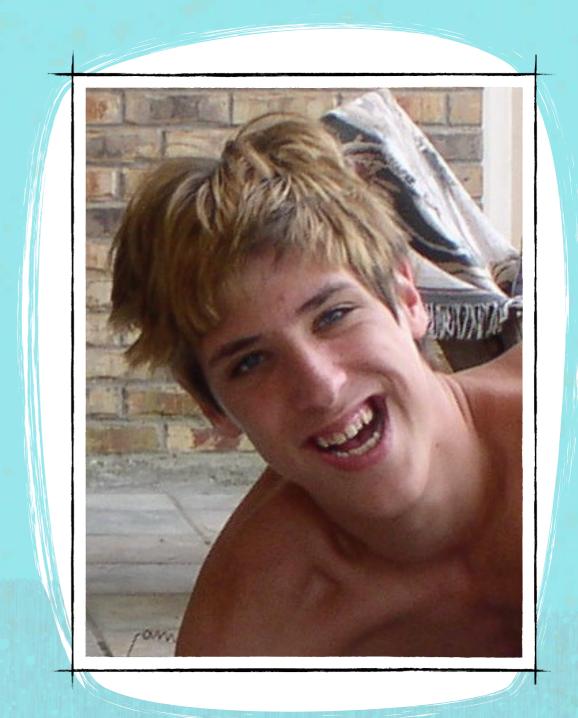
 Miley and be a

 professional.



I will:

- * Take a deep breath
- * Relax
- * Say, "I can do this."
- * I am a professional.
- * Just like Miley



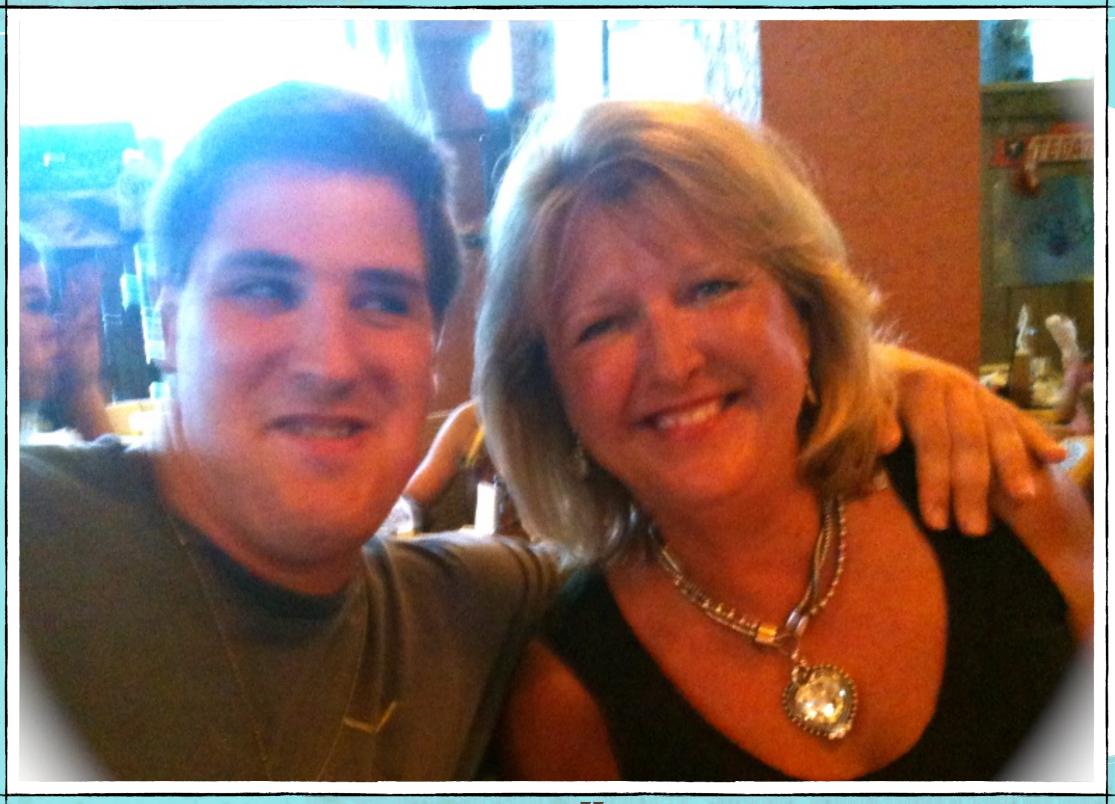
Miley says..

X Yougo,
Drew!

* Be your natural, smiling self!



The End



77

Dean and Sam



Dean and Sam
Winchester
traveled all over the
US hunting for
ghosts.

They must now stay home. Just like me. They want to stay safe.

Just like me.

Supporting frontal lobe or executive skills



Surprise cards/Change of

schedule

Power Cards

Seychain Rules

Reminder Cards

Social Stories

T-charts

SOCCSS



Structuring the

Environment:

Physical Structure

Labeling



Keychain Rules



Read when calm

Read multiple times

Refer to them when he demonstrates rules as reinforcement

Refer to early in the escalation phase



Rule #7: Teachers can call on other students even if you know the answer. In fact, it is her job to call on a variety of students.

Supporting frontal lobe or executive skills



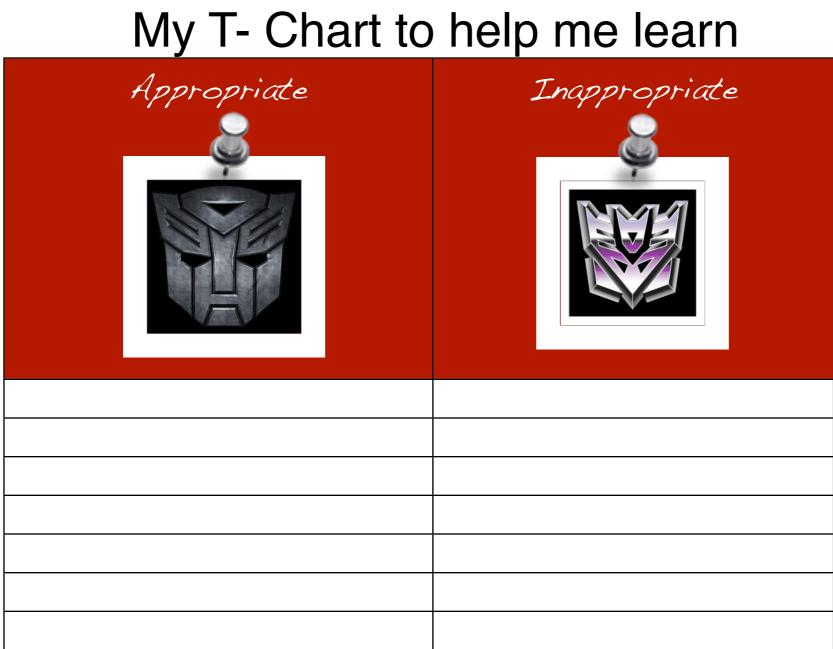
- Surprise cards/Change of schedule
- Power Cards
- Keychain Rules
- Reminder Cards
- Social Stories
- T-charts
- SOCCSS

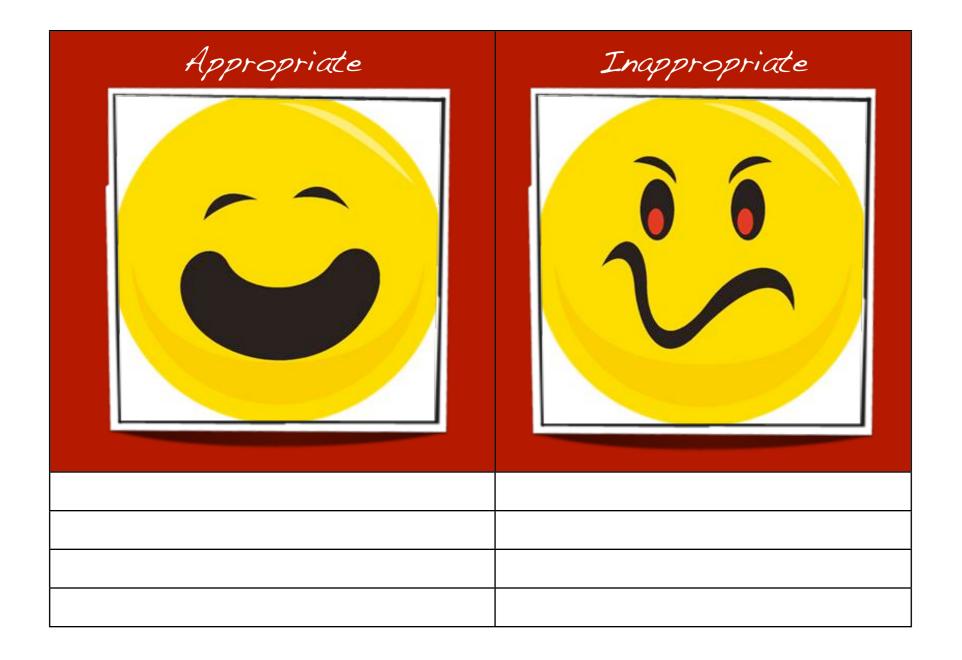


Structuring the

Environment:

- Physical Structure
- Labeling







Jamie-32 years old

Diplomatic

SAY NOTHING Honest

"She never brings casseroles to the party."

SOCCSS Worksheet Situation Who What When Why **O**ptions Consequences Choice Strategy Simulation Type Simulation Outcomes Follow Up Adapted from the work of Roosa, J. B. (1995). Men on the move: Competence and cooperation "Conflict Resolution and Beyond. Kansas City, MO: Author.

S-situation **O-options** C-consequences C-choices S-strategies S-simulation

SOCCSS Worksheet

Situati	on Kid is looking at me from ac	ross room
Мпо	Matt	What Making fun of me
When	During science class	He doesn't like me; he thinks I'm
		stupid.

O ptions	Consequences	Choice
Ignore him	He may stop	
Tell him hello	Might make a friend	
Whassup?	Might make a friend	X
Call him a (name) and tell him to	Might start a fight	
stop looking at me		

Strategy Whassup?		~	
•			

Simulation Type	Simulation Outcomes
Role play	
Video tape	

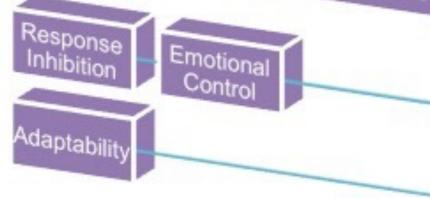
Follow	Up
--------	----

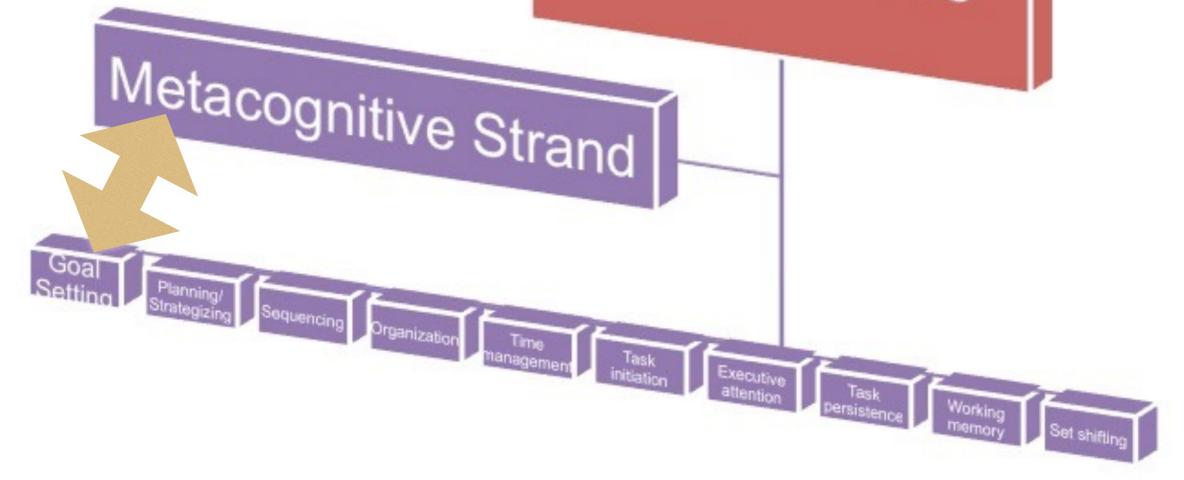
Metacognitive Strand Emotional Regulation Strand

Metacognitive Strand



Social/Emotional Regulation Strand





Goal-setting

The ability to set clearly defined goals and appropriate goals and then follow through to achieve the goals

Dawson and Guare, 2012

Exhibited behaviors:

****** Difficulty in identifying long range goals

****** Fails to complete assignments due to difficulties with prioritizing aspects of the assignment

Kaufman, 2010



Exhibited behaviors:

** Written work lacks flow and organization

** Difficulties breaking down larger assignments into small units

** Classroom work reflects a lack of consistent planning and appears student is "winging it".

Kaufman, 2010



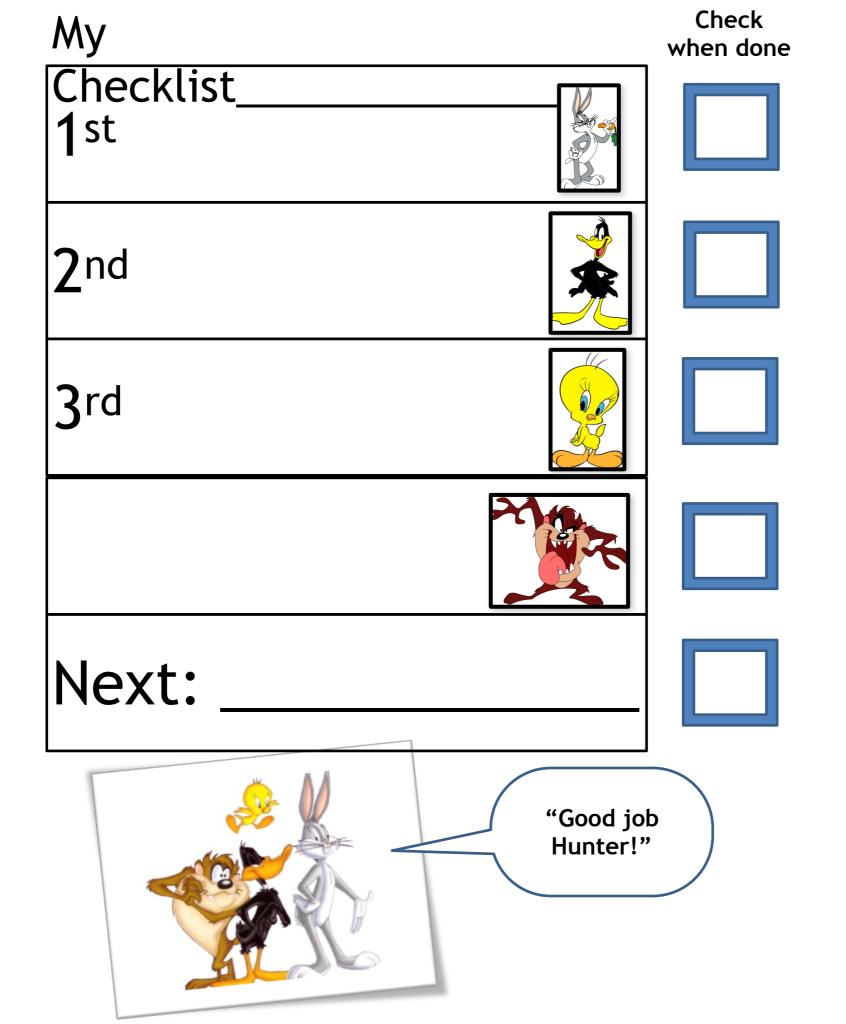
Planning and Strategizing

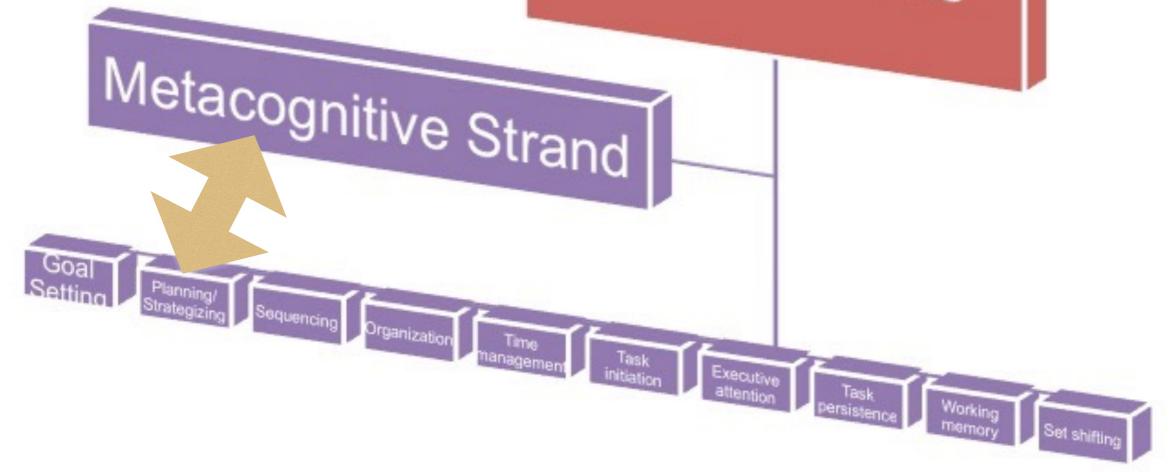
The ability to create a blueprint to achieve goals or in completing a task

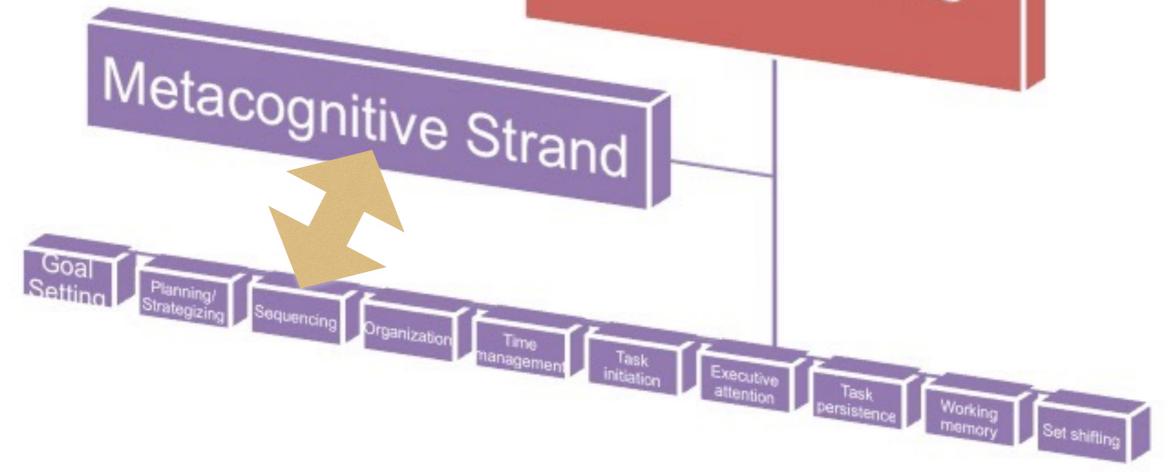
Dawson and Guare, 2012

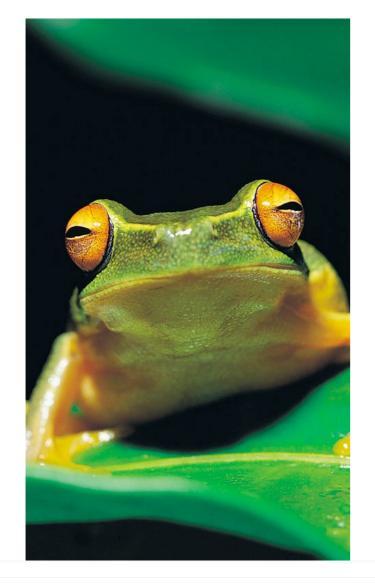
LONG TIME PROJECTS, GOAL SETTING AND TIME MANAGEMENT











Sequencing

The ability to put information in a logical and familiar order.

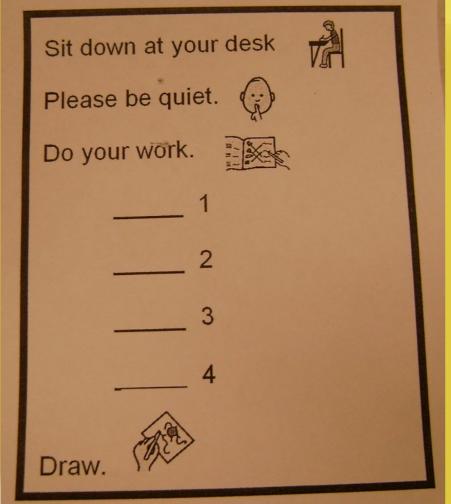
Dawson and Guare, 2012

Exhibited behaviors: *****Difficulties with details and sequence of assignments ****** Overwhelmed by task demands that require sequencing ****** Difficulties with reading comprehension ****** Difficulties solving math problems that require sequencing

Kaufman, 2010



Work System [Mini-schedule]







	My Checklist	Check
1st		when done
2nd		
3rd		
4th		
5 th		
6 th		
7th		

Organization

The ability to maintain and create systems to keep track of information or materials.



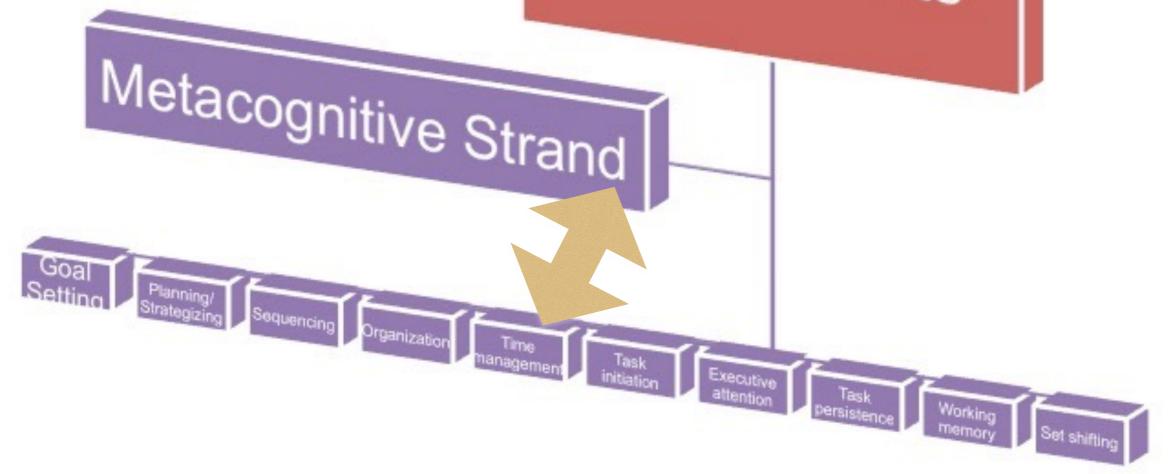
Exhibited behaviors: *****Difficulties with developing outlines or completing graphic organizers ****** Folders, backpacks and lockers are messy

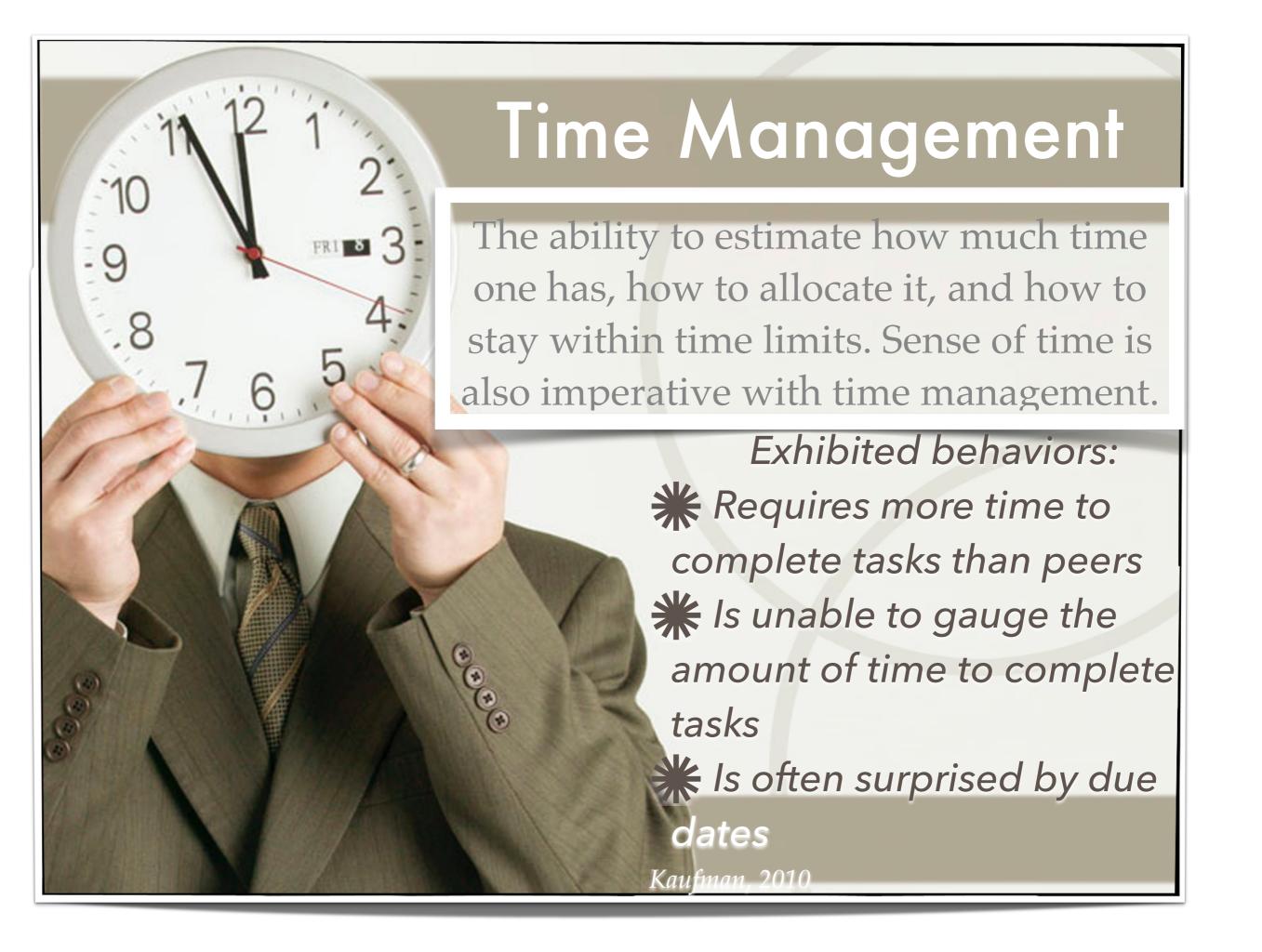
****** Written work lacks organization

Kaufman, 2010

Organization Made Simple in 3 Easy Steps

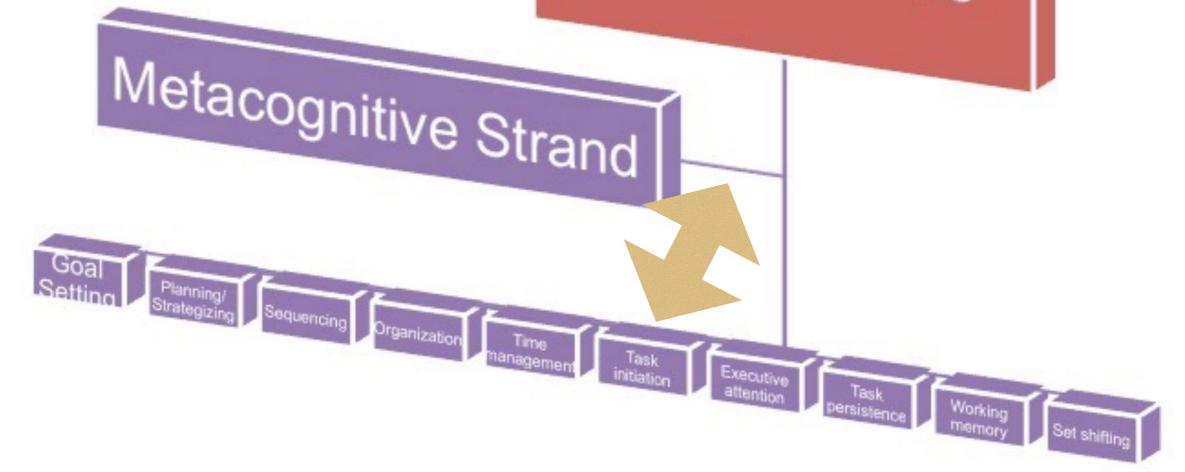






TIME MANAGEMENT

Executive Function Time Management



Task Initiation

The ability to begin tasks without procrastination in a timely manner.

Exhibited behaviors:

- ****** Difficulties starting task
- ****** Student may be sitting there while other students are working
- ## If provided assistance with starting tasks, the tasks can be completed successfully.

Kaufman, 2010





Executive Functioning Components

Metacognitive Strand

Goal Setting

Executive Attention

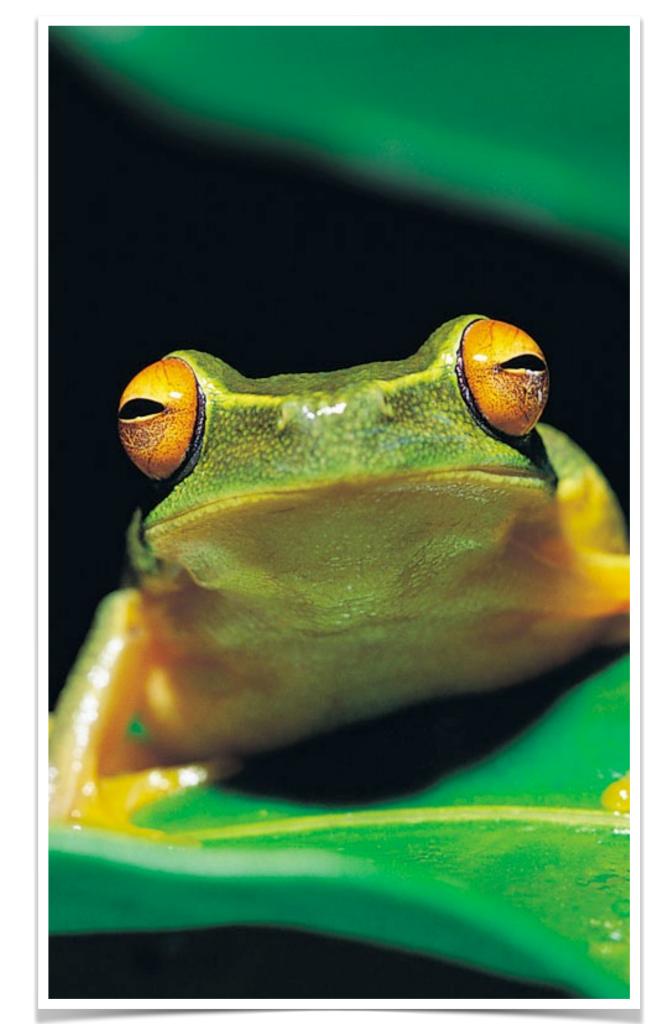
A self directed control and maintenance of attention

Dawson and Guare, 2012

Exhibited behaviors:

- *****Easily distracted by external or internal stimuli
- ****** Requires reminders to stay on task
- ****** Difficulties sustaining attention
- ****** Tendency to make careless errors

Kaufman, 2010



TEACHING EXECUTIVE ATTENTION

Focus Students' Attention
Increase Student Participation

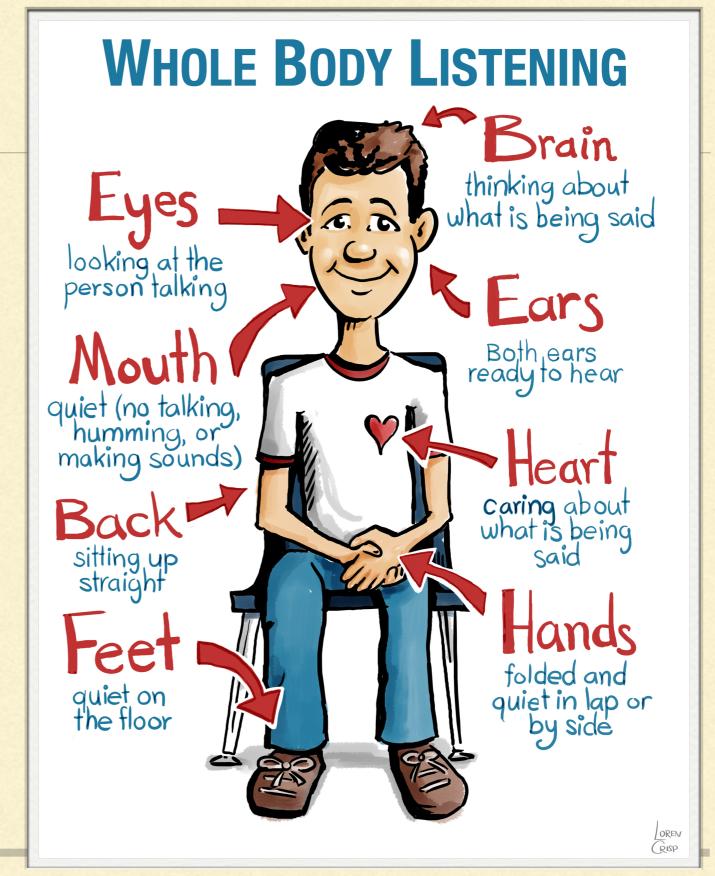


Credit to SocialThinking.com
Kristen Wilson and Elizabeth
Slutter

WHOLE BODY LISTENER

TEACHER PAYTEACHER

Loren Crisp



When there are difficulties sustaining attention use...

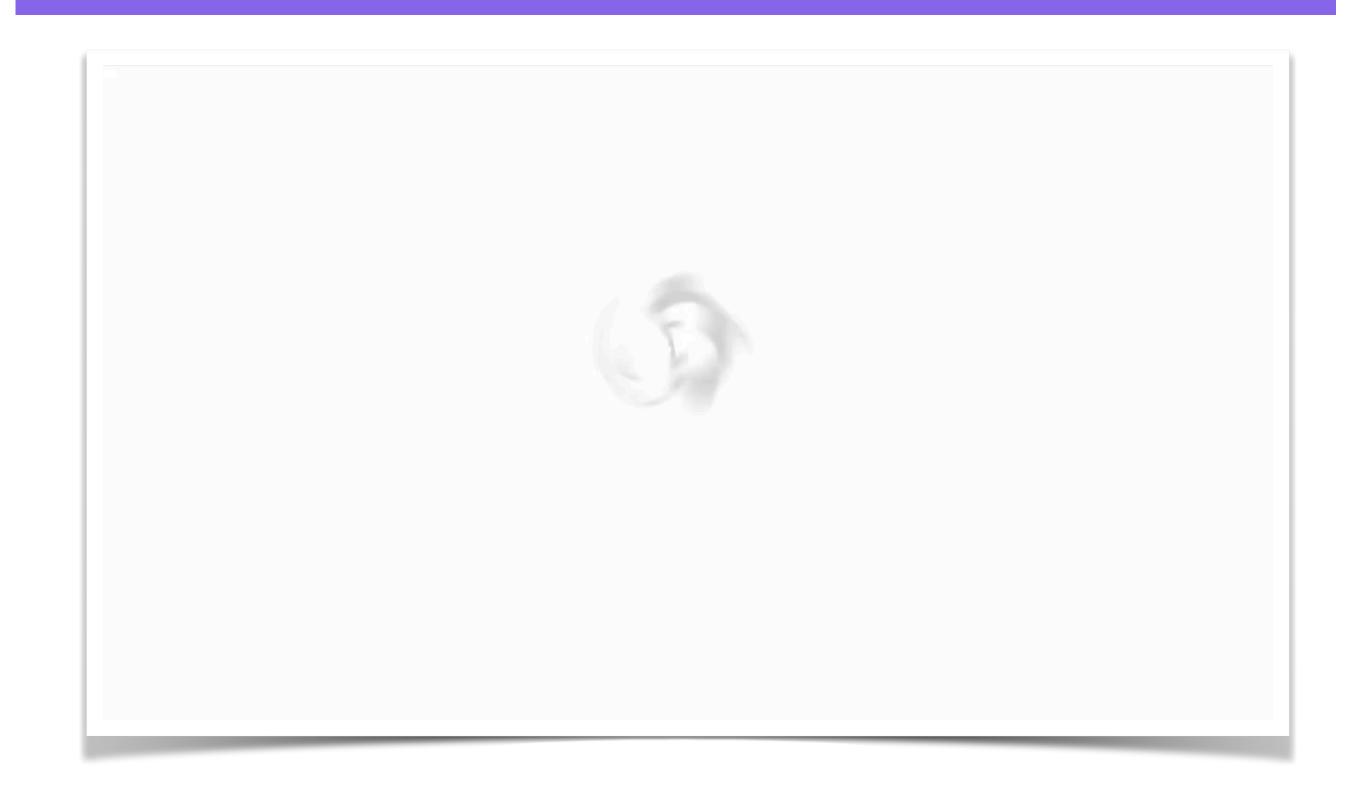
Positive Behavior Support Booklet

Template is on my website:

www.igivuwings.com/
resources



Careless Errors and how to fix them...



Executive Functioning Components

Metacognitive Strand



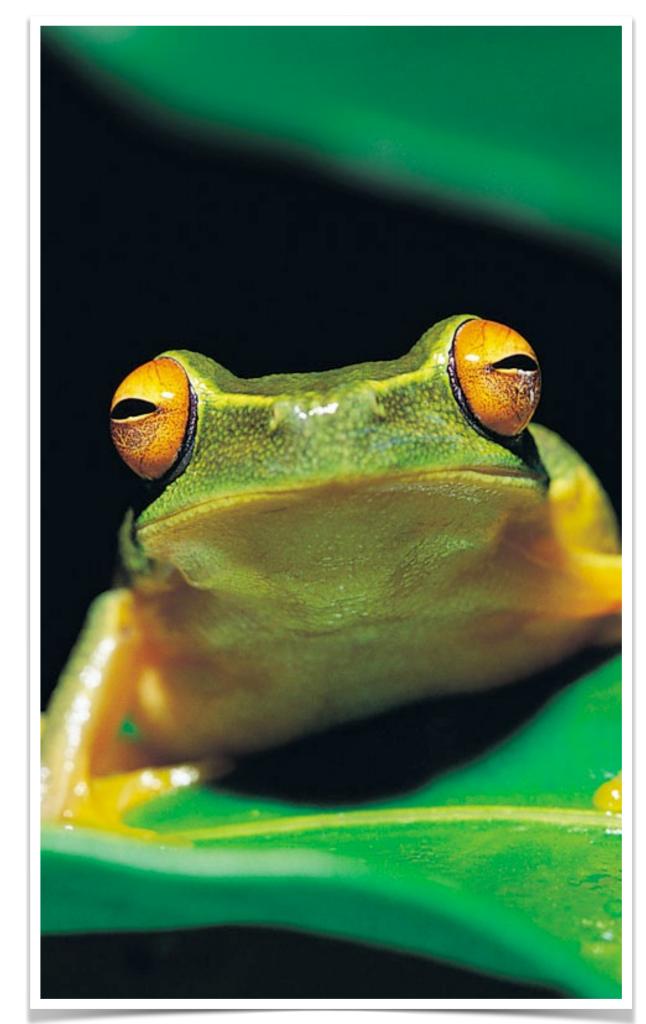
Task Persistence

The ability to keep at a task or goal till it is completed.

Dawson and Guare, 2012

Exhibited behaviors: ******Starts task but is unable to keep working at it ** Needs frequent teacher cues to keep working ****** May stop working if individualized help is not immediately available ** Appears to fatigue quickly during academic activities

Kaufman, 2010



HELP WITH TASK PERSISTENCE



Executive Functioning Components

Metacognitive Strand



Planning/ Strategizing

Sequencing

Organization

Time hanagemen

Task initiation

Executive attention

Task persistence

k ence Mor

Working memory

Set shifting



The ability to hold information in memory while performing complex tasks.

Dawson and Guare, 2012

Exhibited behaviors: ****** Unable to perform multiple step directions ****** Forgets what he is about to say after talking ****** Forgets details of what is read, during or shortly after being read explicit questions but

** Can answer factual/
explicit questions but
has difficulty with
details, making
predictions, or drawing
inferences

MEMORY IS INTEGRAL TO FUNCTIONING EFFECTIVELY

Executive Function Memory



Executive Functioning Components

Metacognitive Strand



Set Shifting

The ability to move between tasks

Dawson and Guare, 2012

Exhibited behaviors:

- ****** Becomes frustrated over changes in routines or schedules
- ****** Tends to get stuck on steps of assignments
- ****** Has difficulty stopping one task to start another task

Kaufman, 2010



The miracle of

Transition Markers

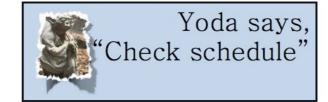






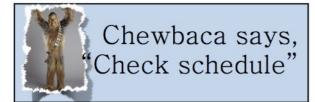
Winnie the Pools

Time to check your schedule



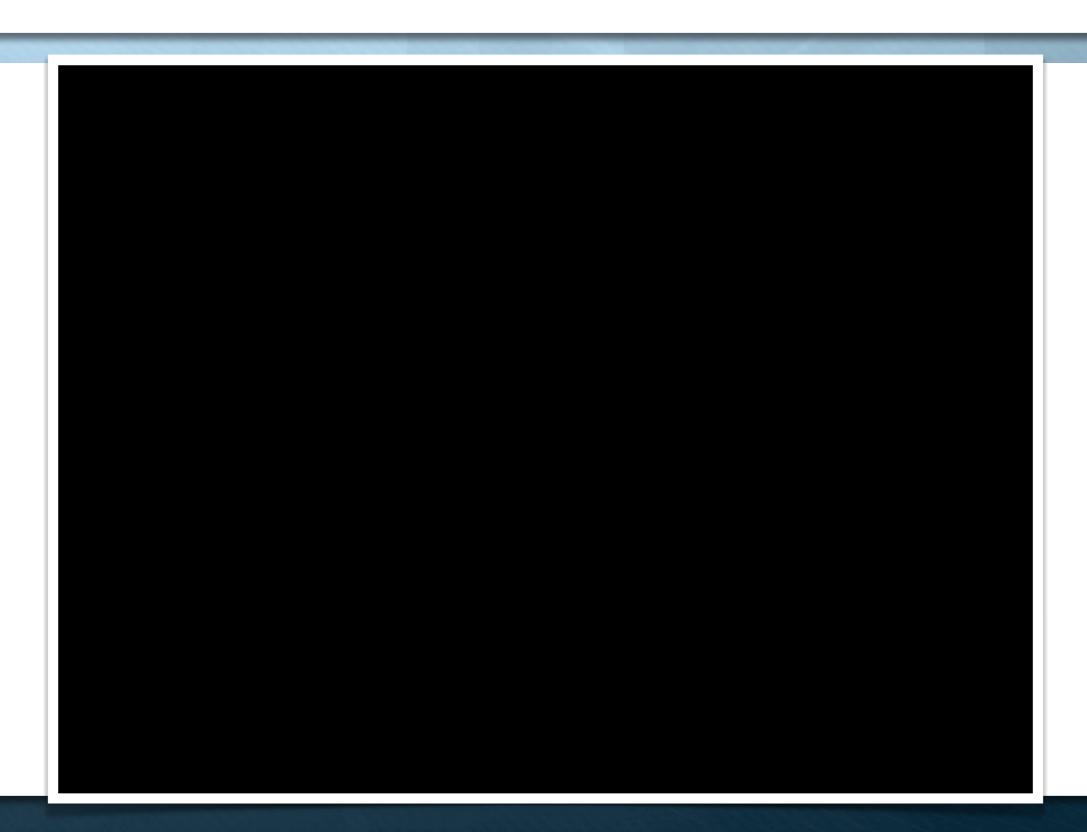


Yaddle says, "Check schedule"



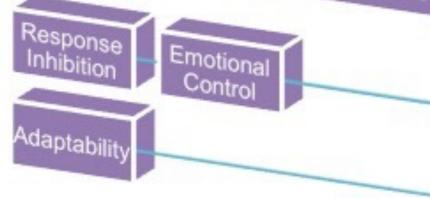


Jasmine and her transition marker



Executive Functioning Components

Social/Emotional Regulation Strand



Self-Regulation



EMOTIONAL REGULATION

"Ability to respond to the ongoing demands of experiences with the range of emotions in a manner that is socially tolerable and sufficiently flexible to permit spontaneous reaction as well as the ability to delay spontaneous reactions as needed." (Cole, Michael, and Teti, 1994)



Working Memory

Inhibitory control

Mental Flexibility

WHY SELF REGULATION IS SO IMPORTANT

The Secret of School Success:

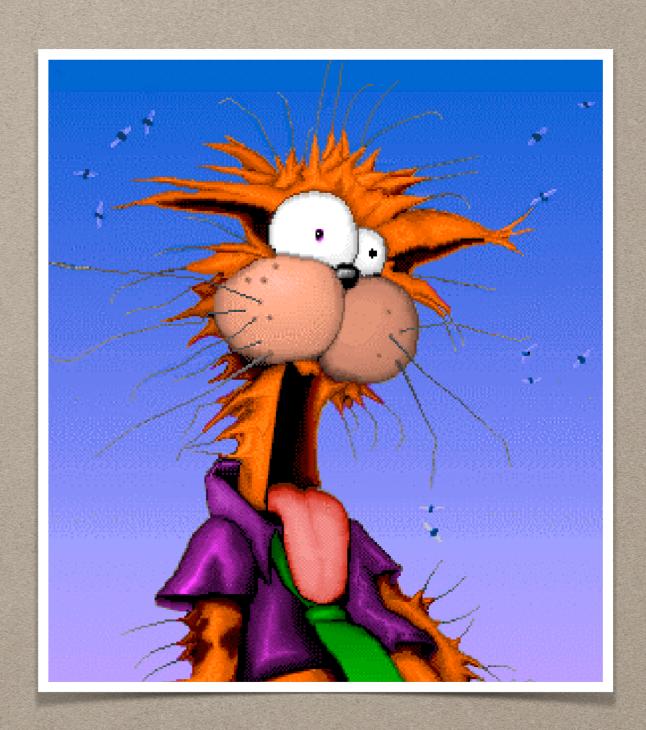
..."one of several findings in the growing body of research on self-regulation..people's ability to stop, think, make a plan and control their impulses..it turns out that "these are really the same skills you need to do well in school and potentially in life."

Professor Megan McClelland

Oregan State University

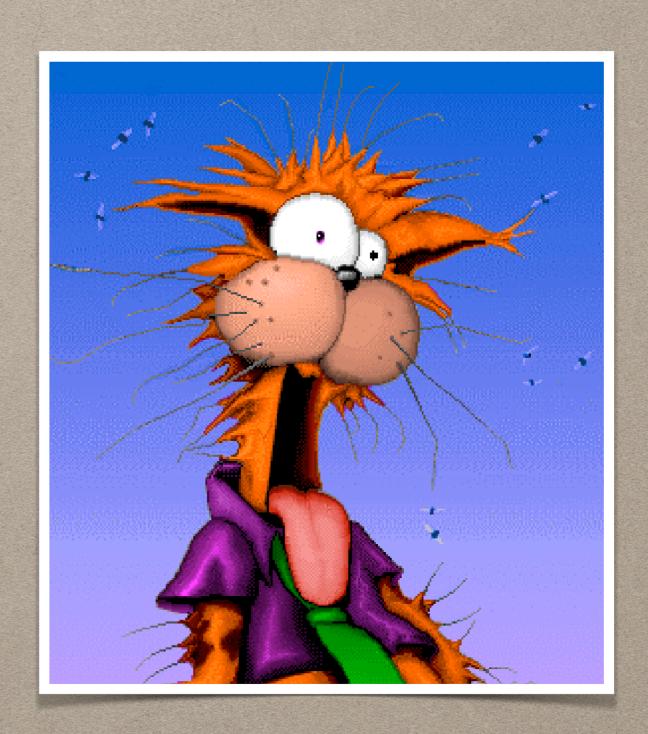
SELF REGULATION

- The ability to detect how you are feeling
- Match emotions to events
- Change level of behavior and emotion to match environment and cultural expectations



IT MIGHT BE A SELF REGULATION PROBLEM IF...

- You think "she is just being stubborn..."
- You really feel you need to watch your every word.
- You think, 'Here we go again.."
- You have to stop yourself from raising your voice.
- You are tempted to say, "Calm down, calm down" when you don't know what else to do..



P.S.



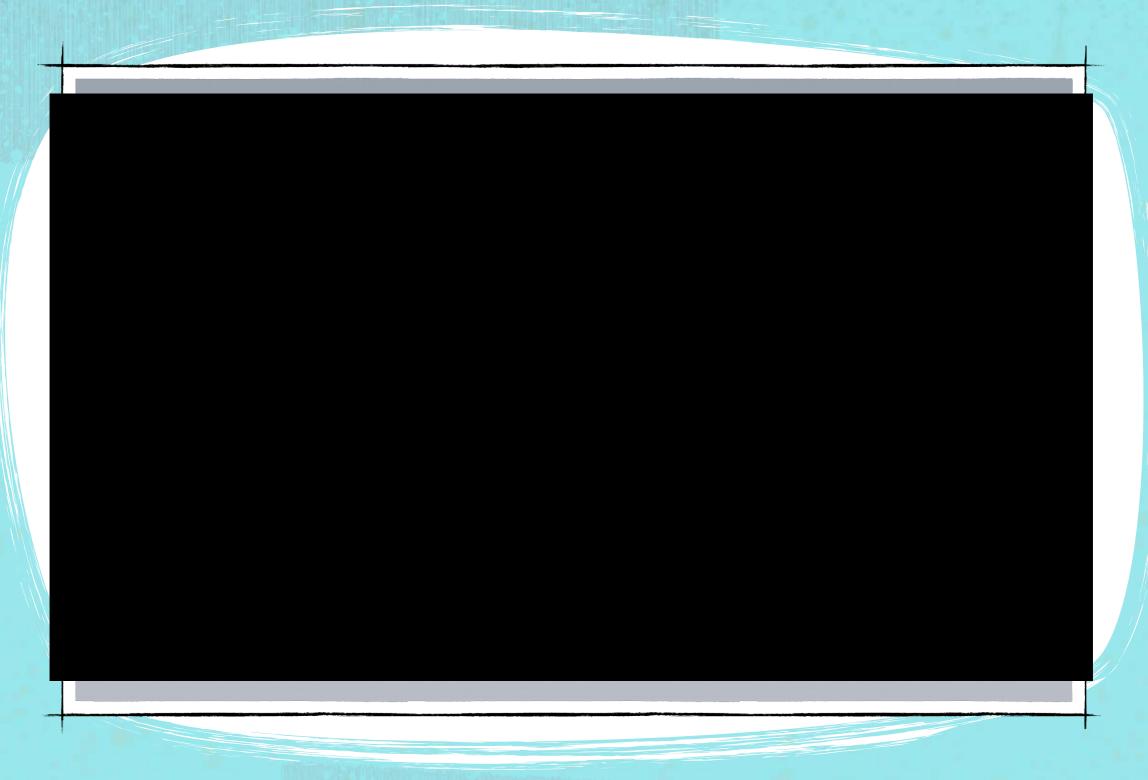
Never in the history of calming down has anyone ever calmed down by telling them to calm down.

MeMoves-first patented system for self-regulation

- Stephen Porges' polyvagal theory, one of the most celebrated new developments in neurobiology.
- MeMoves' faces with eye contact and expressive features of emotion, music supporting the same frequency as the female voice, and simple gestures perfectly align with the positive social engagement elements identified by Porges.

When to do MeMoves:

- Before a test
- Before stressful event
- First period in the morning
- Prior to quiet, indoor activity

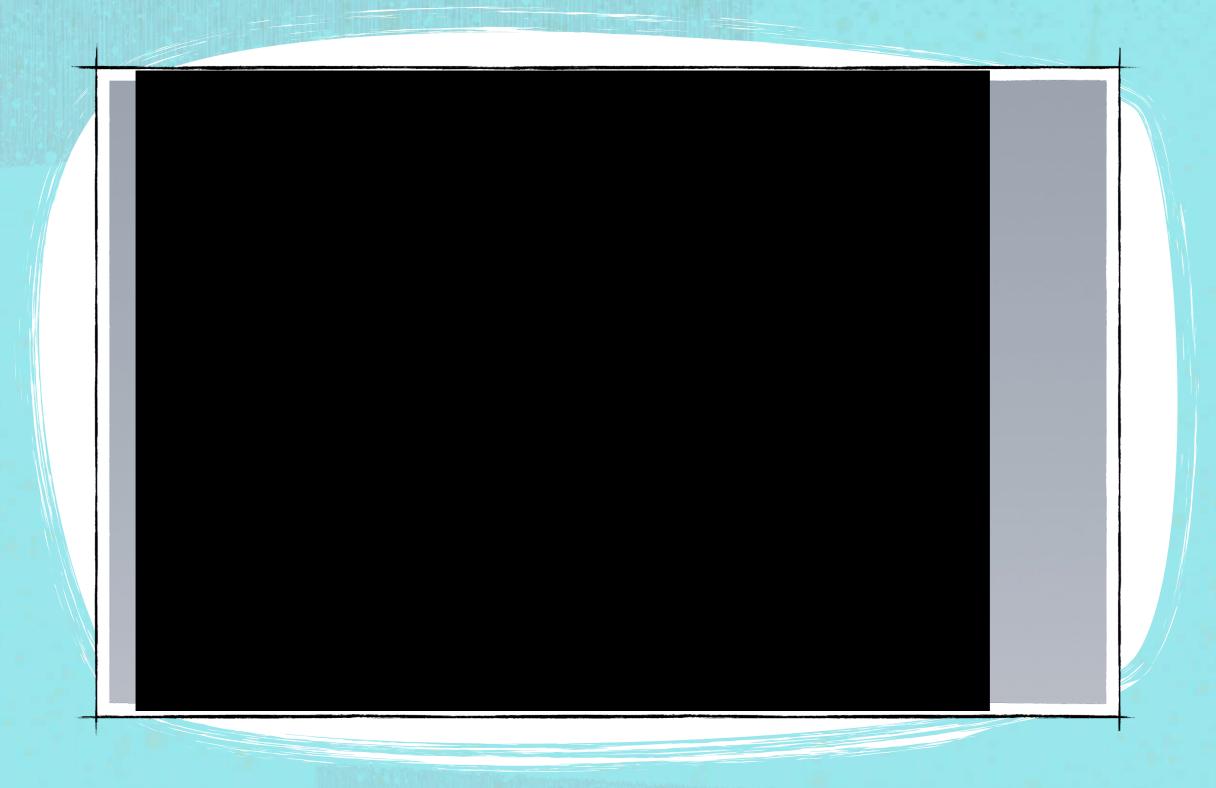


Thinking Moves.com

What is MeMoves?

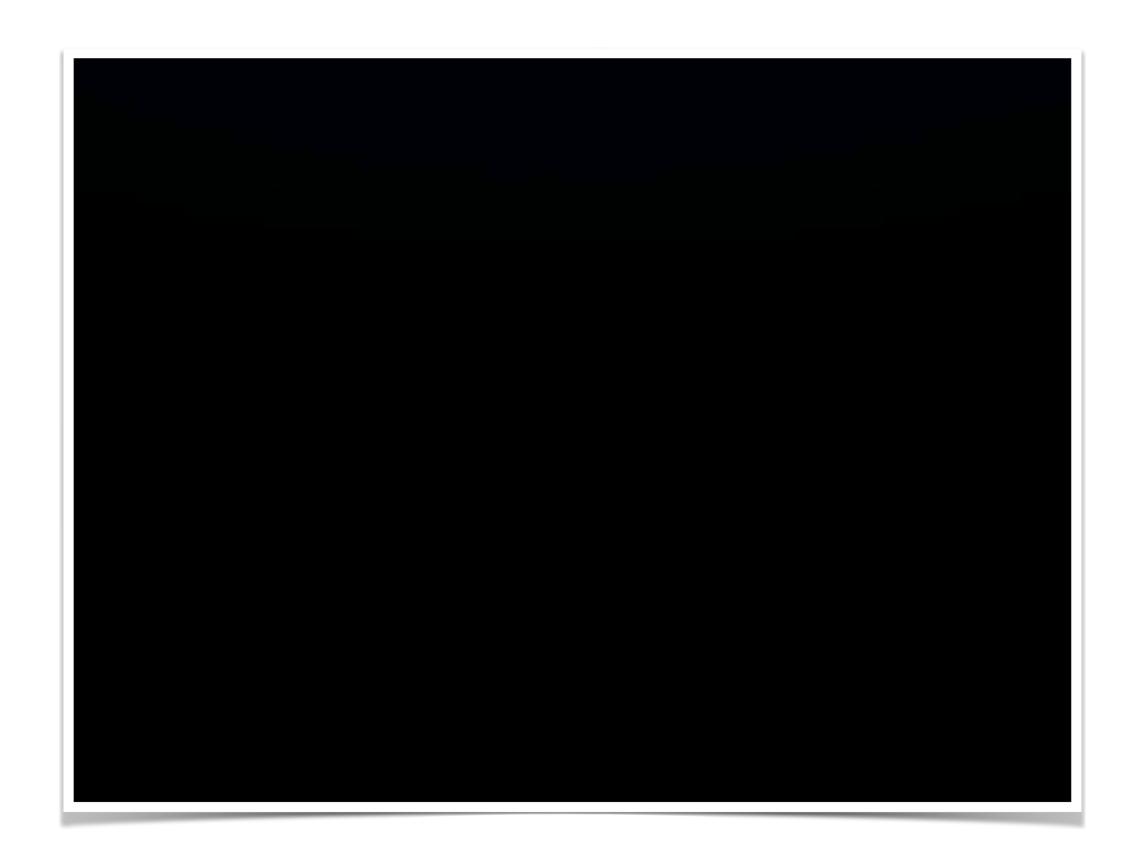
Calming 1





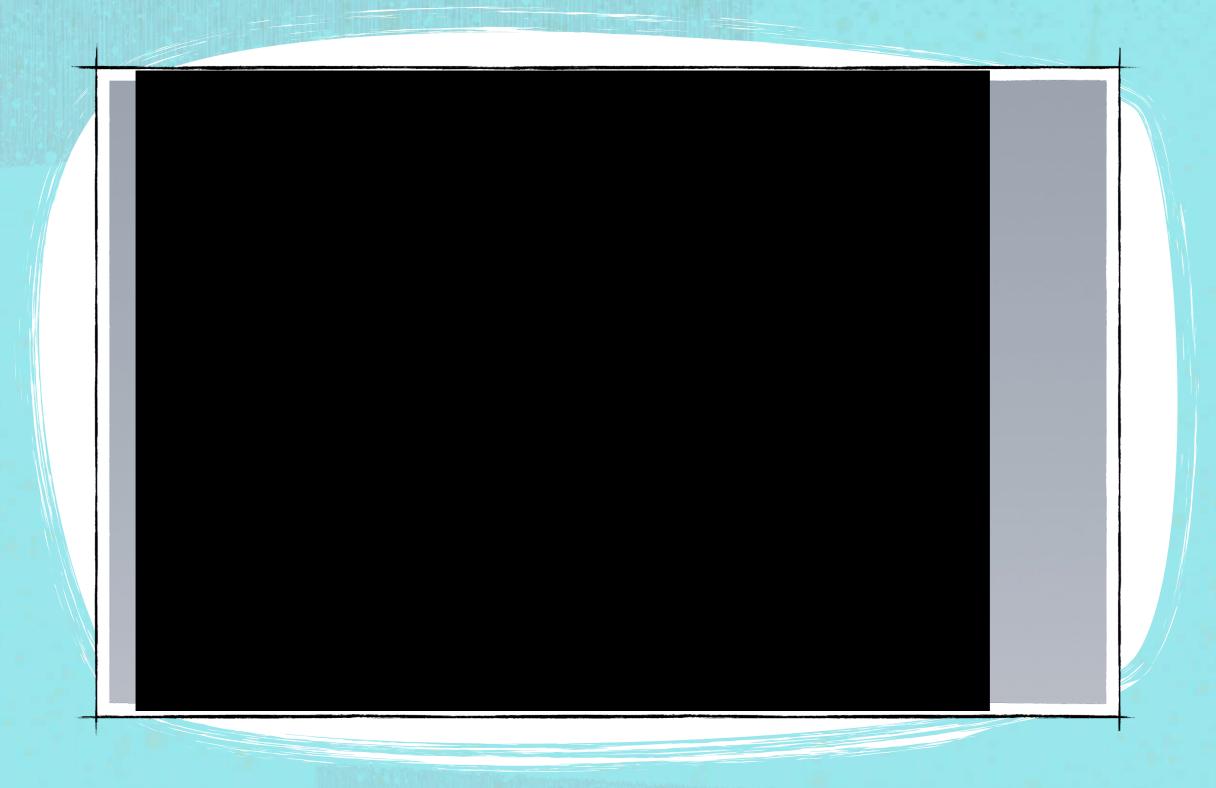
Focus

Joy and Energy



Calming 1



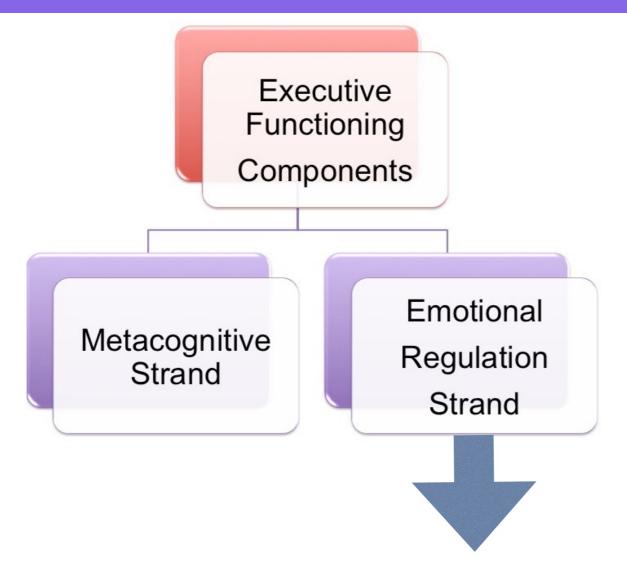


Focus

Joy and Energy



Sensory Regulation Strategies





Working Memory Inhibitory control Mental Flexibility



The ability to manage emotions to achieve goals, complete tasks, to control and direct behavior.

Dawson and Guare, 2012

Exhibited behaviors:

****** Becomes frustrated in situations where peers would not

****** Has a low frustration tolerance

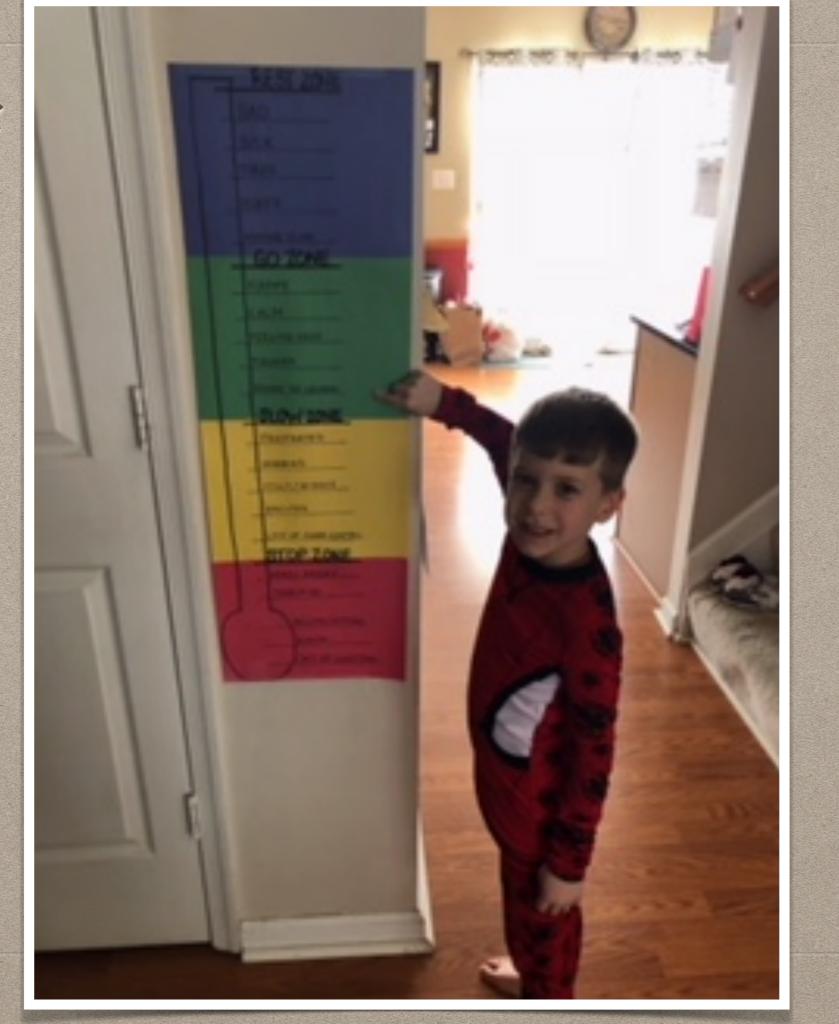
***** Easily angered by behaviors of others

** May be overwhelmed by positive or negative emotions

ANXIETY MANAGEMENT



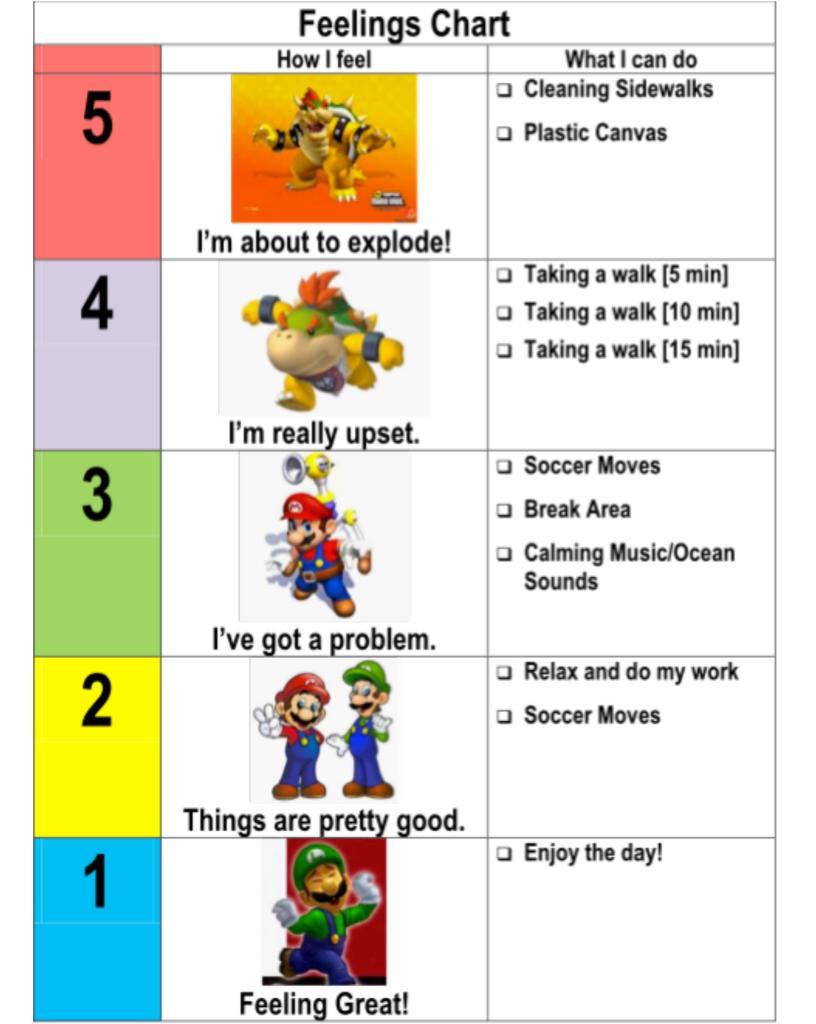
Dominic



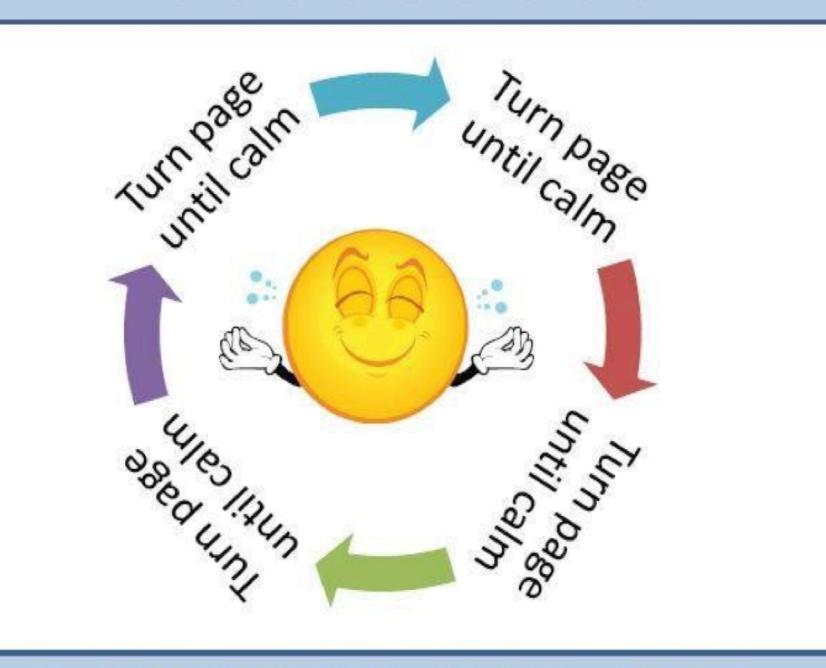
Emotions Chart

Scale	How I feel	What I can do
5	Reached my Limit!!	
4	calling for help!	
3	Not so cool!	
2	Getting a bit anxious!	
1	I'm cool!	tod by Kothy Koluzo Morrio

Created by Kathy Kaluza Morris, igivu Wings



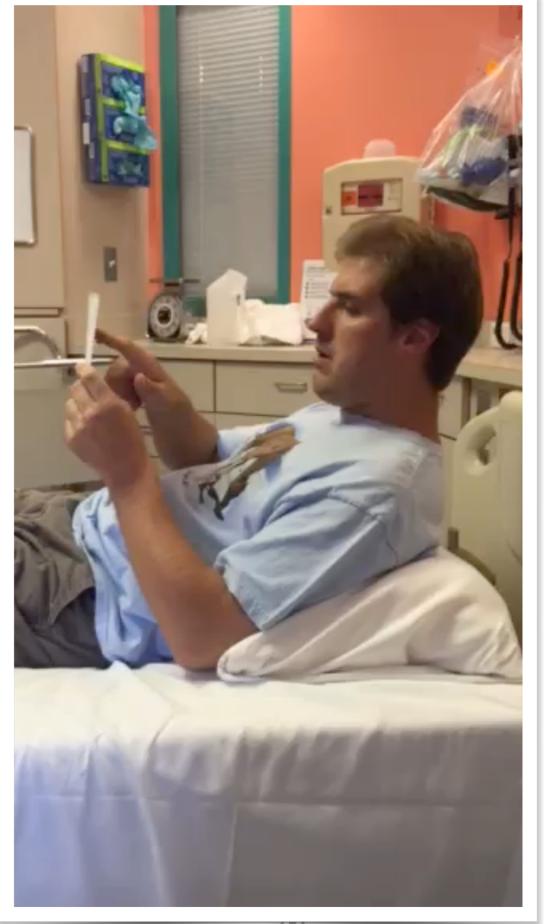
Count 1, 2, 3, 4, 5, 6, 7, 8, 9, 10



Breathe in – Breathe out – Breathe in-Breathe out

Count 1, 2, 3, 4, 5, 6, 7, 8, 9, 10







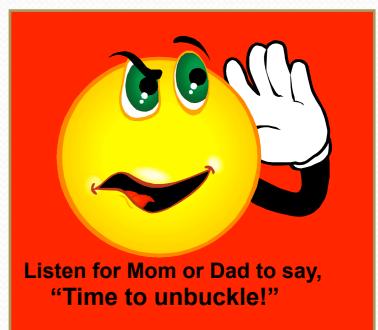
Jacob in Kindergarten

Safety First!











Center Board



Mini-schedule at Centers



Large Group Structure





Positive Behavior Flip Book





Jacob at Home



Structure at Home: Schedule





Positive Behavior Flip Book: "Wait" at restaurants!



Now/Next



Friendships



Response Inhibition

The ability to think before acting; to resist the urge to say or do something that may not be a good choice.

Exhibited behaviors:

******Blurts out answers

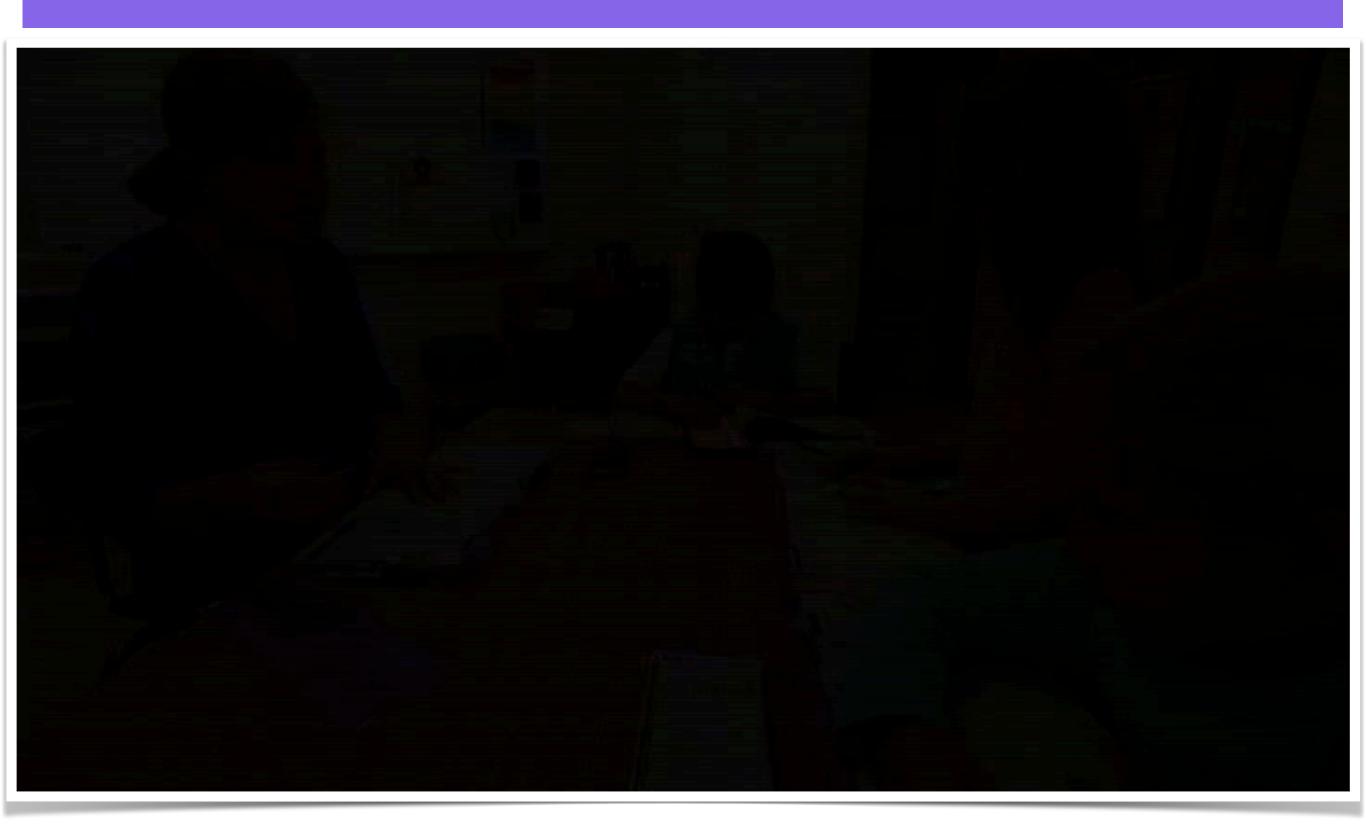
****** Often says or does things that he or she regrets

**Often acts as if he is unencumbered by the thought process

****** Often has difficulty explaining why he or she does things



Impulse (Inhibitory) Control



Cartooning

- #Helpful for the visually oriented student to facilitate understanding of social situations and anticipated behaviors, as well as the thoughts of other people in a given situation.
- ******Thought and speech bubbles, enable the individual with autism to get a sense of social interactions and the hidden rules that govern behaviors (Kerr & Durkin, 2004).
- ****** Comic Strip ConversationsTM, developed by Gray (1994). By illustrating conversation through simple drawings, the strategy helps the student to identify "what other people say and do" and emphasizes "what other people may be thinking."

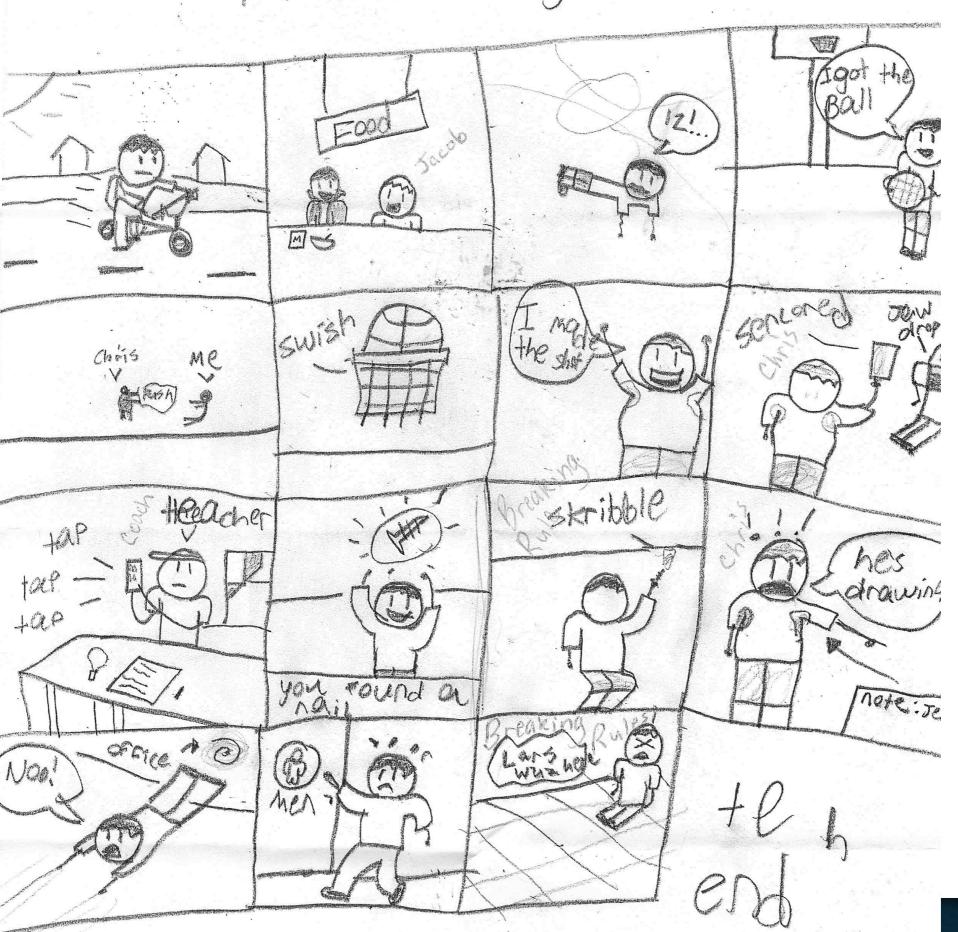
Lighthall & Schetter

******Laminated marker boards, paper, or chalkboards

******Comic Strip ConversationsTM, developed by Gray (1994). By illustrating conversation through simple drawings, the strategy helps the student to identify "what other people say and do" and emphasizes "what other people may be thinking."



Fiasco Day



Comic Life (Plas-Q.com)















Emotional Control

The ability to manage emotions to achieve goals, complete tasks, to control and direct behavior.

Dawson and Guare, 2012

Exhibited behaviors:

****** Becomes frustrated in situations where peers would not

****** Has a low frustration tolerance

****** Easily angered by behaviors of others

****** May be overwhelmed by positive or negative emotions

Sensory Overstimulation



I process information at a slower pace than average.

- My brain is like a dial-up modem vs. a cable modem.
- If I don't remove myself from the situation, I go into sensory overload.
- To someone watching, I appear to cop an attitude or fly into a rage.

When I'm in overload, I'm in fight or flight response.

Acting angry is a defense mechanism. It's like my mind thinks it can "scare off" the source of my

Once I'm in full overload, there is nothing I can do but ride the meltdown until I've expelled all of my emotional energy.

I just kinda lose my head and explode and then I'm fine.

Instructional Consequences



Keymakers

Some people see a closed door, and turn away.

Others see a closed door, try the knob if it doesn't open . . . they turn away.

Still others see a closed door, try the knob,

If it doesn't open, they find a key, if the key doesn't fit . . . they turn away.

A rare few see a closed door, try the knob, if it doesn't open, they find a key, if the key doesn't fit . . . they make one.



