



# **Online Learning Modules: Understanding Brain Injury and the Intersection with Challenging Behaviors - “Can’t versus Won’t”**



Provided by:  
The Exceptional Student Services Unit  
Brain Injury Team

# Speaker: Karen McAvoy, PsyD

Dually credentialled as a clinical psychologist and school psychologist

## Current Experience:

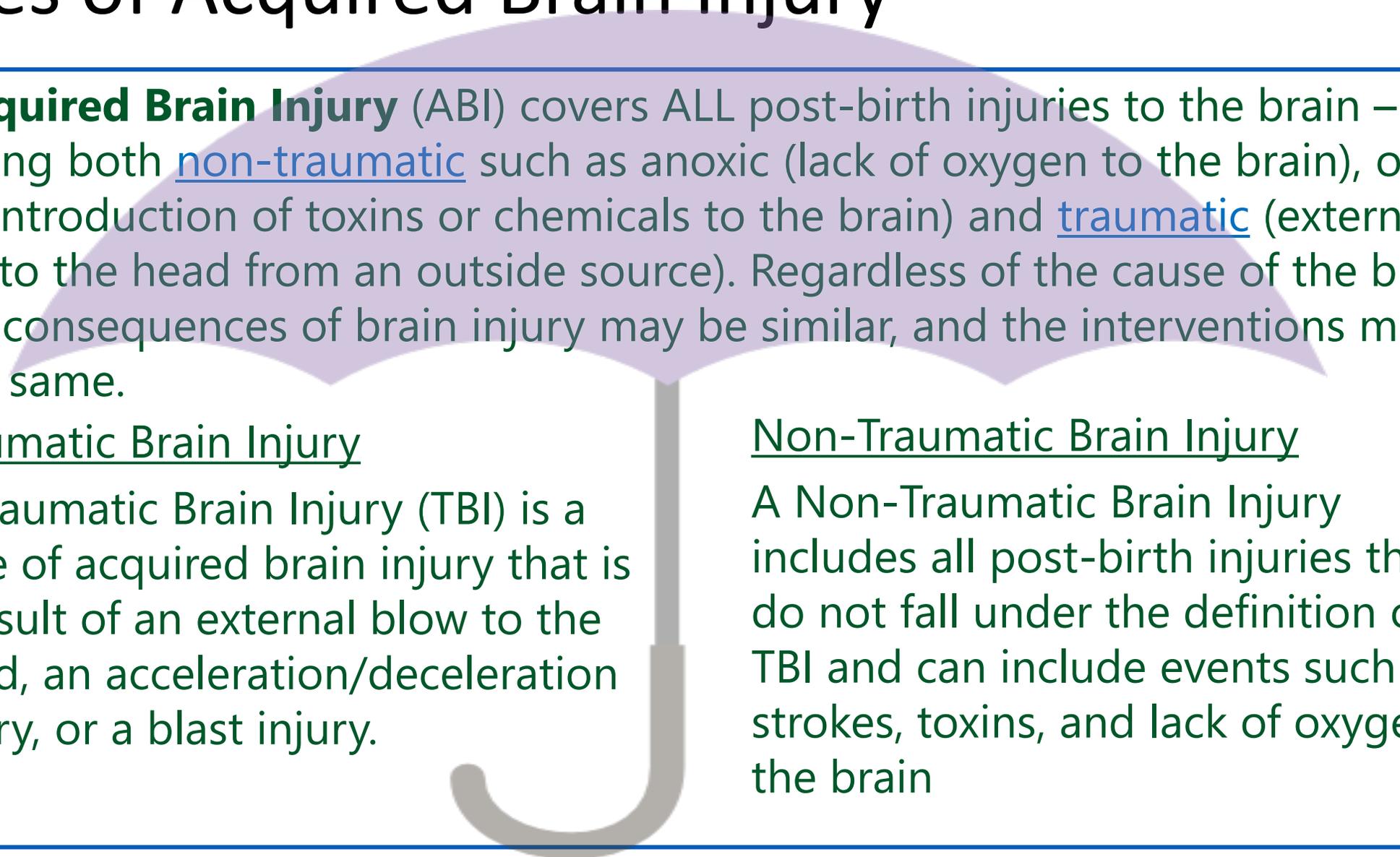
- Author of REAPconcussion.com; co-founder of GetSchooledOnConcussions.com
- Neurocognitive Assessment & Treatment, Aasha Brain Clinic

## Past Experience:

- 20 years at Cherry Creek Schools as a school psychologist; Coordinator of the Mental Health Team, Brain Injury Team, and Manifestation Determinations
- 11+ years as a consultant to Colorado Department of Education
- Former Adjunct professor @ UCD School Psychology Program
- Pediatric Psychologist at Seattle and Denver Children's Hospitals and Director of the Center for Concussion, Rocky Mountain Hospital for Children



# Types of Acquired Brain Injury



An **Acquired Brain Injury** (ABI) covers ALL post-birth injuries to the brain – including both non-traumatic such as anoxic (lack of oxygen to the brain), or toxic (introduction of toxins or chemicals to the brain) and traumatic (external blows to the head from an outside source). Regardless of the cause of the brain injury, consequences of brain injury may be similar, and the interventions may be the same.

## Traumatic Brain Injury

A Traumatic Brain Injury (TBI) is a type of acquired brain injury that is a result of an external blow to the head, an acceleration/deceleration injury, or a blast injury.

## Non-Traumatic Brain Injury

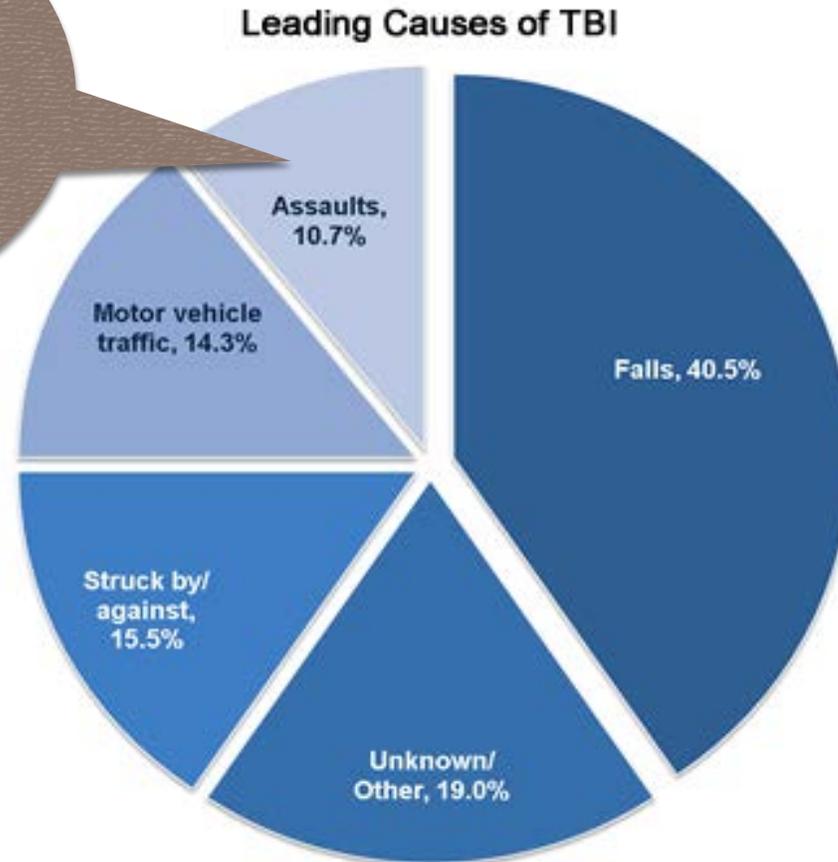
A Non-Traumatic Brain Injury includes all post-birth injuries that do not fall under the definition of a TBI and can include events such as strokes, toxins, and lack of oxygen to the brain

# Acquired (Post-Birth) Brain Injury

## Traumatic – External Force

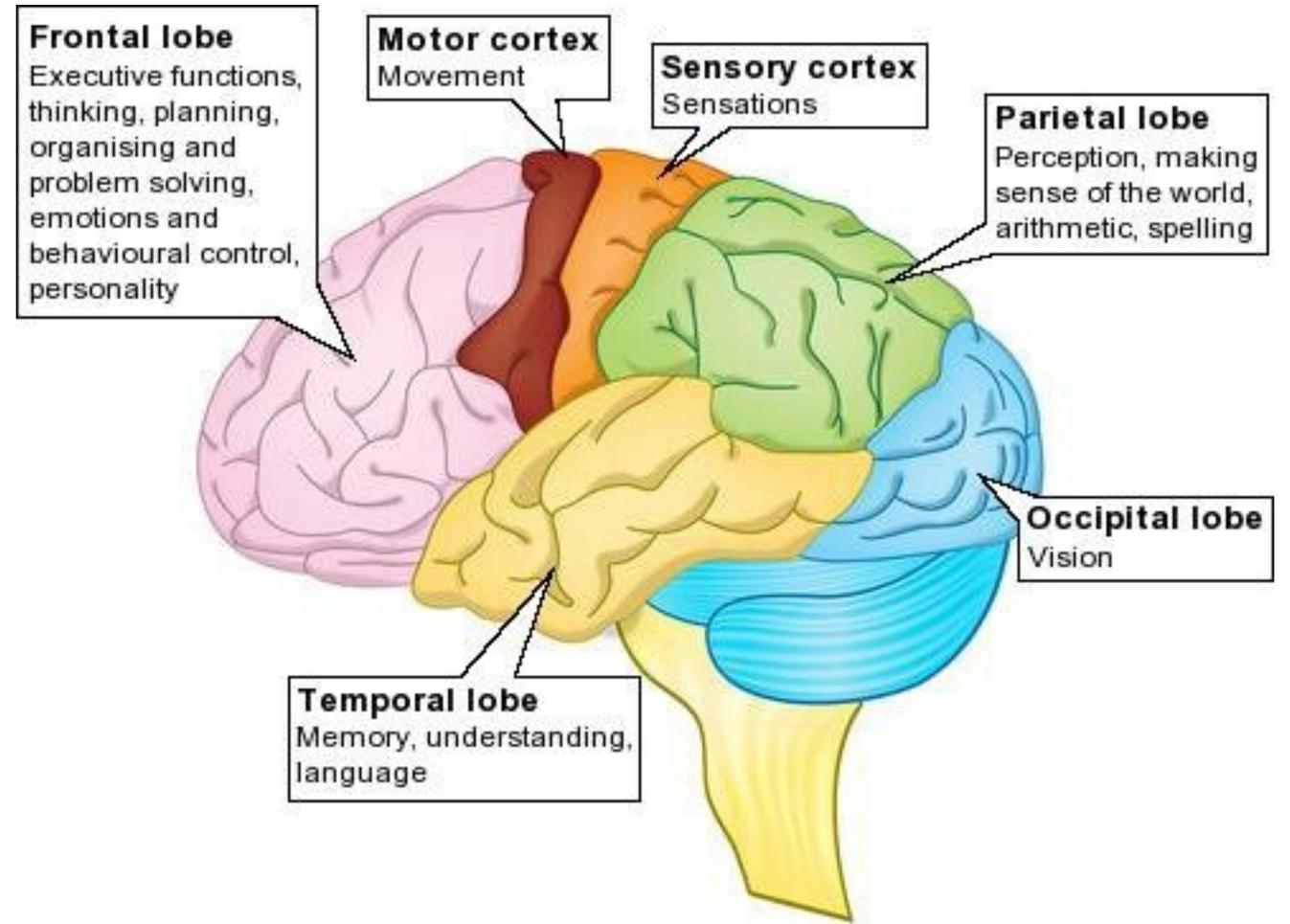
## Non-Traumatic – Internal Event

It is estimated that 1,000-1,500 children the US sustain Abusive Head Trauma each year.

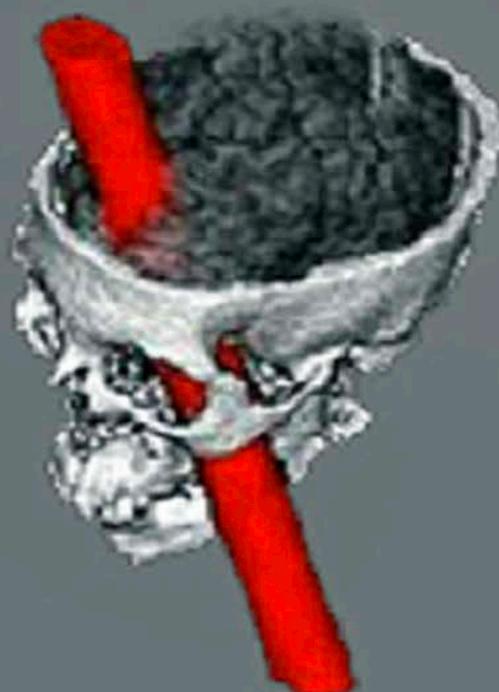


- Illness (e.g., high fever)
- Infections (e.g., meningitis, encephalitis)
- Anoxic injuries (lack of oxygen; e.g., airway obstruction, near drowning)
- Stroke or vascular events (lack of blood flow)
- Brain tumors, malformations
- Poisoning (e.g., ingestion, inhalation) – Substances?
- Metabolic disorders (e.g., insulin shock)

# Lobes of the Brain







# Types of Traumatic Brain Injuries



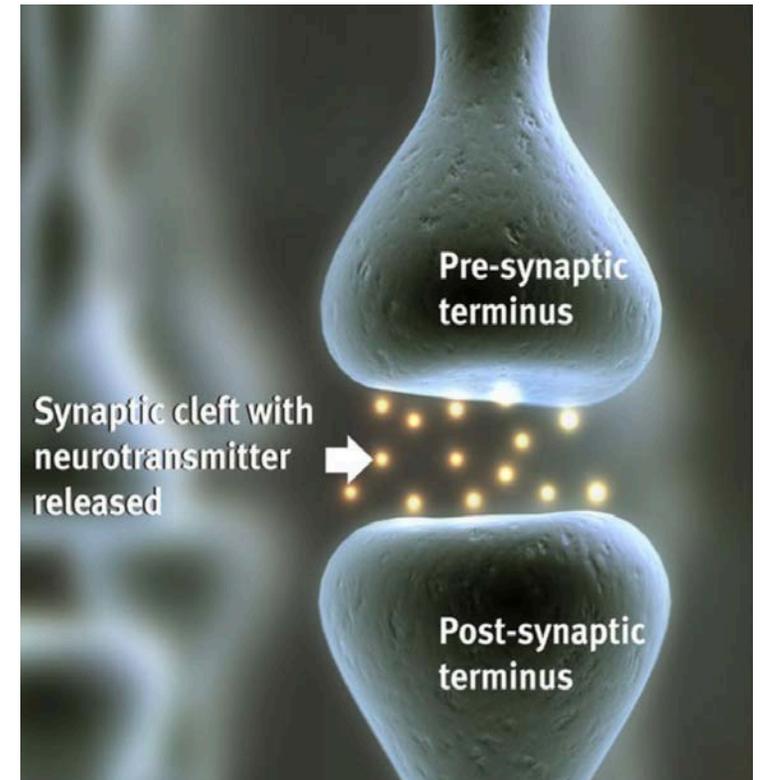
- Mild TBI (LOC <30 min; PTA < 24 hours) => also commonly called a concussion (on average = 80-85%)
- Moderate TBI (LOC >30 min <24 hours; PTA 24 hours-7days) (on average = 13%)
- Severe TBI (LOC > 24 hours; PTA more than 7 days) (on average = 2%)

The severity of the injury does not solely determine the impact on functioning

# Axonal Shearing and biochemical dysfunction

- Damage to individual nerve cells (neurons) and/or loss of connections among neurons which can lead to a breakdown of overall communication among neurons in the brain
- This damage contributes to the Metabolic Imbalance

Therefore, many brain injuries are not able to be detected on an MRI or CT scan



<http://www.riken.jp/en/research/rikenresearch/highlights/4818>



Problem with  
software, not  
hardware



Symptoms =  
Functional  
problems

Physical:

- Headache
- Dizziness
- Nausea
- Light Sensitivity
- Noise Sensitivity

Cognitive:

- Difficulty concentrating
- Difficulty remembering
- Slow Processing  
Speed
- Cognitive Fogginess

Emotional:

- More emotional
- Sad
- Anxious
- Angry

Sleep:

- Fatigue
- Drowsiness
- Sleeping too much
- Can't fall or maintain  
sleep



# What are the downstream consequences?



Children's Healthcare of Atlanta; Julie Haarbauer-Krupa, PhD & CDC TBI in Prisons and Jails: An Unrecognized Problem



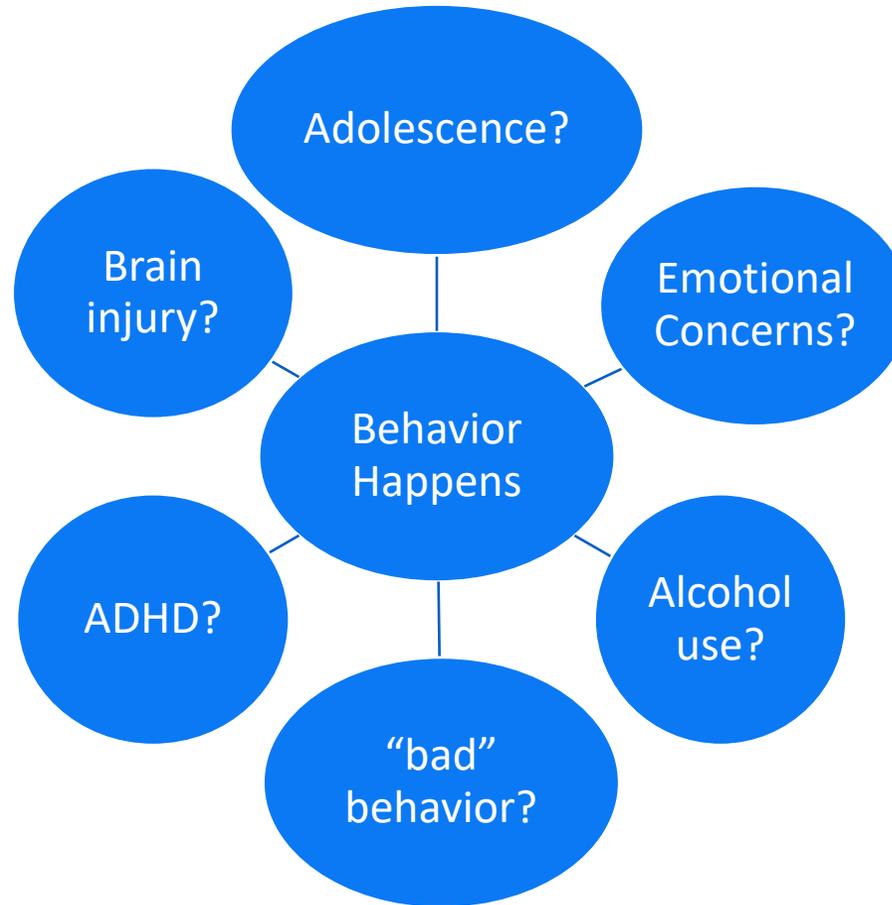
## Executive Function:

"The teenage brain is like a Ferrari: it's sleek, shiny, sexy, and fast, and it corners really well. But it also has really crappy brakes."

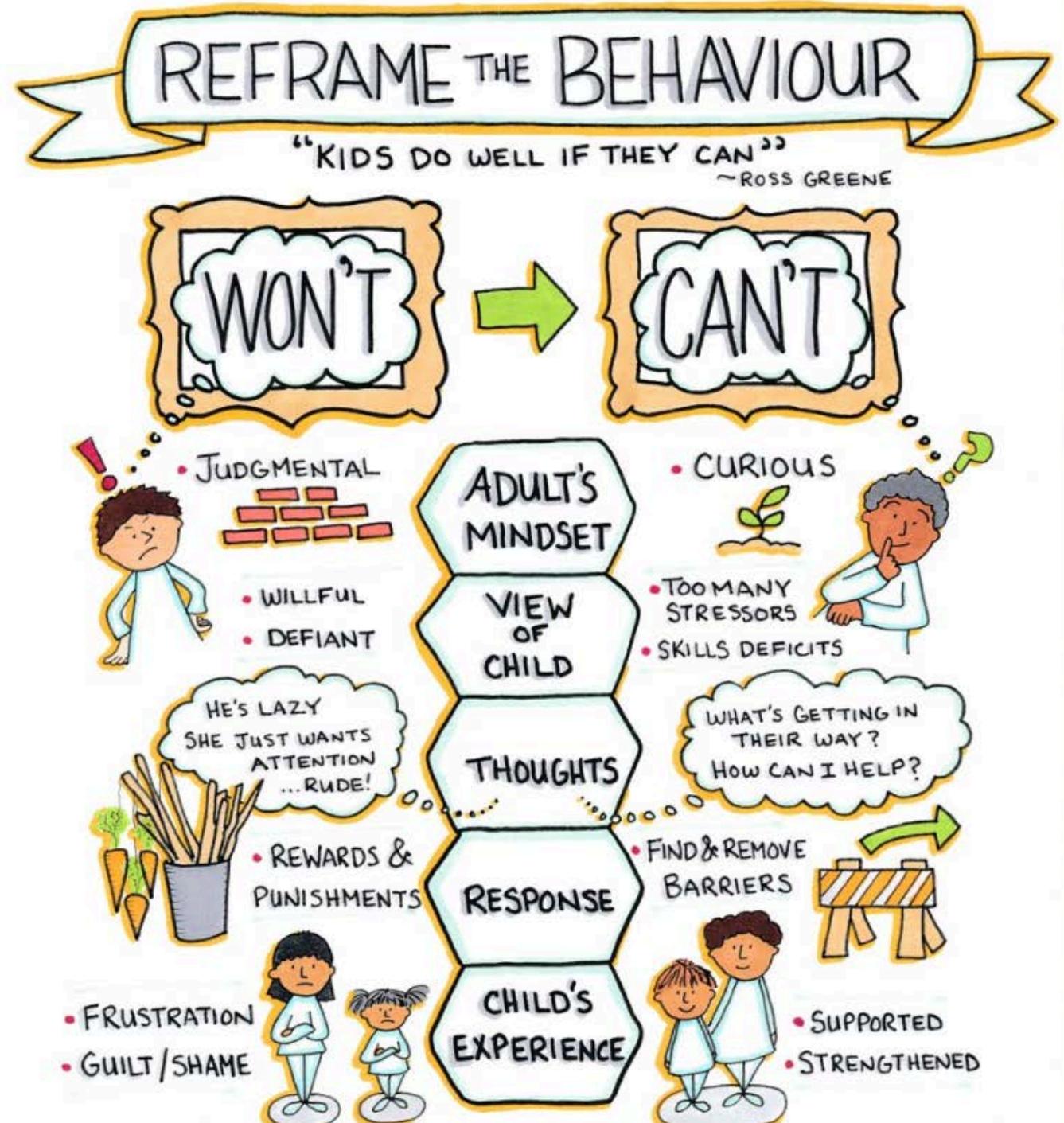


Dawson/Guare-May 2012

# A behavior happens – what is the cause?



Why does it matter?



# Can't versus Won't

## Skill versus Will



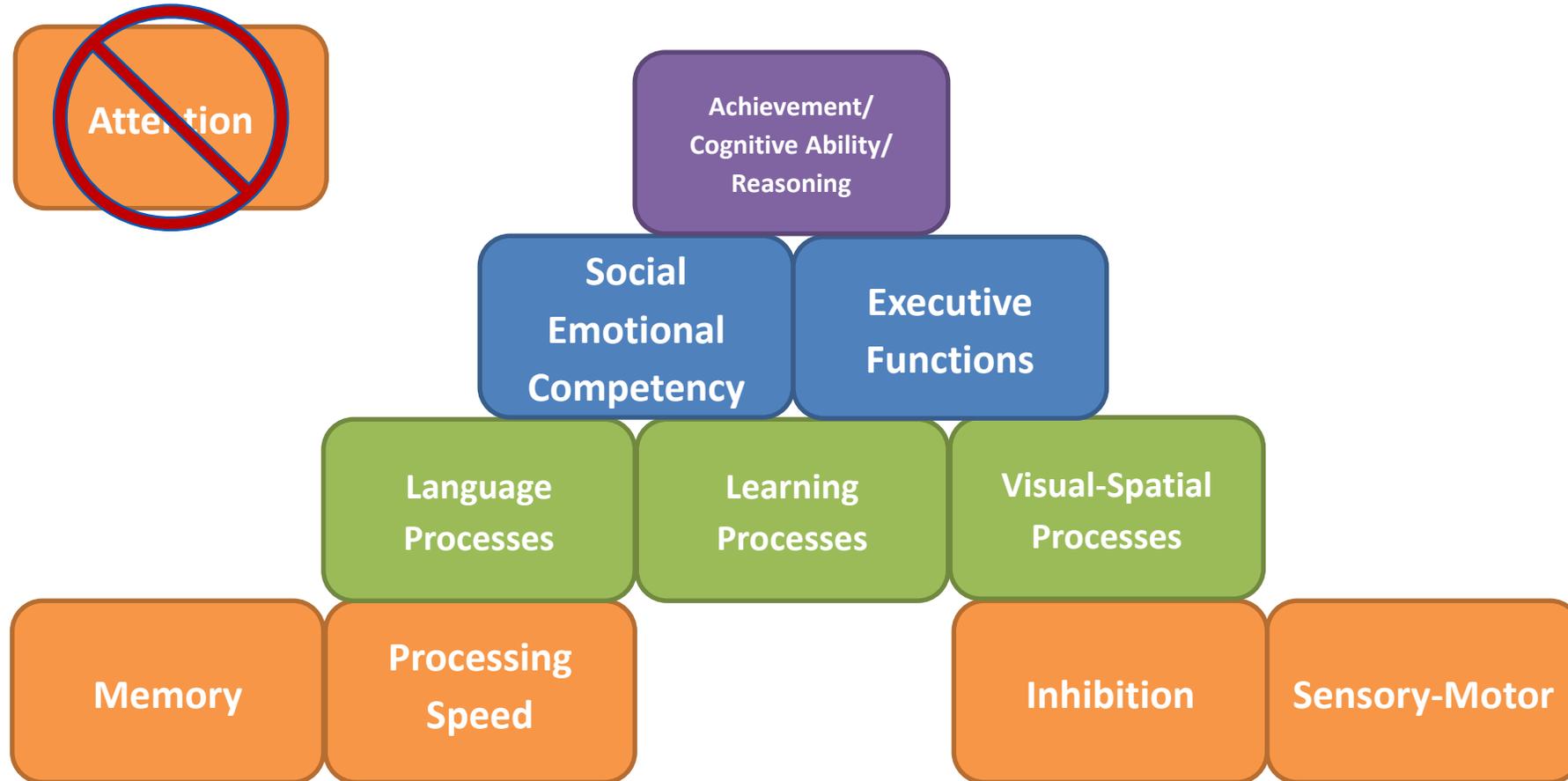
# Building Blocks of Brain Development ©



The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007; Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © - further adapted by the CO Brain Injury Steering Committee, 2016.

# Building Blocks of Brain Development ©

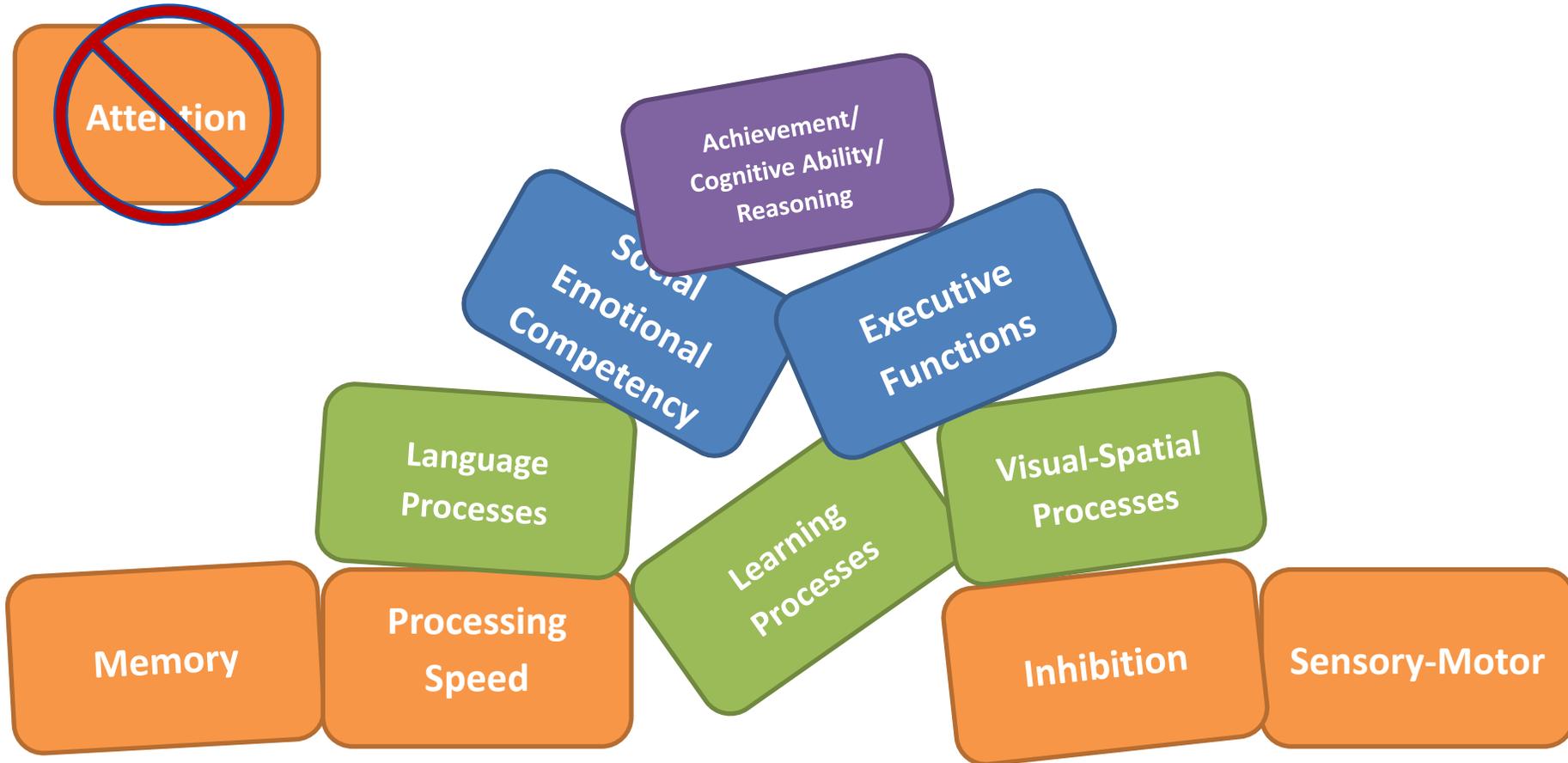


The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007; Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © – further adapted by the CO Brain Injury Steering Committee, 2016.

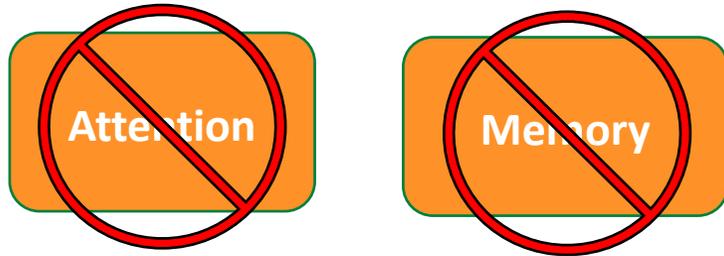


# Building Blocks of Brain Development ©



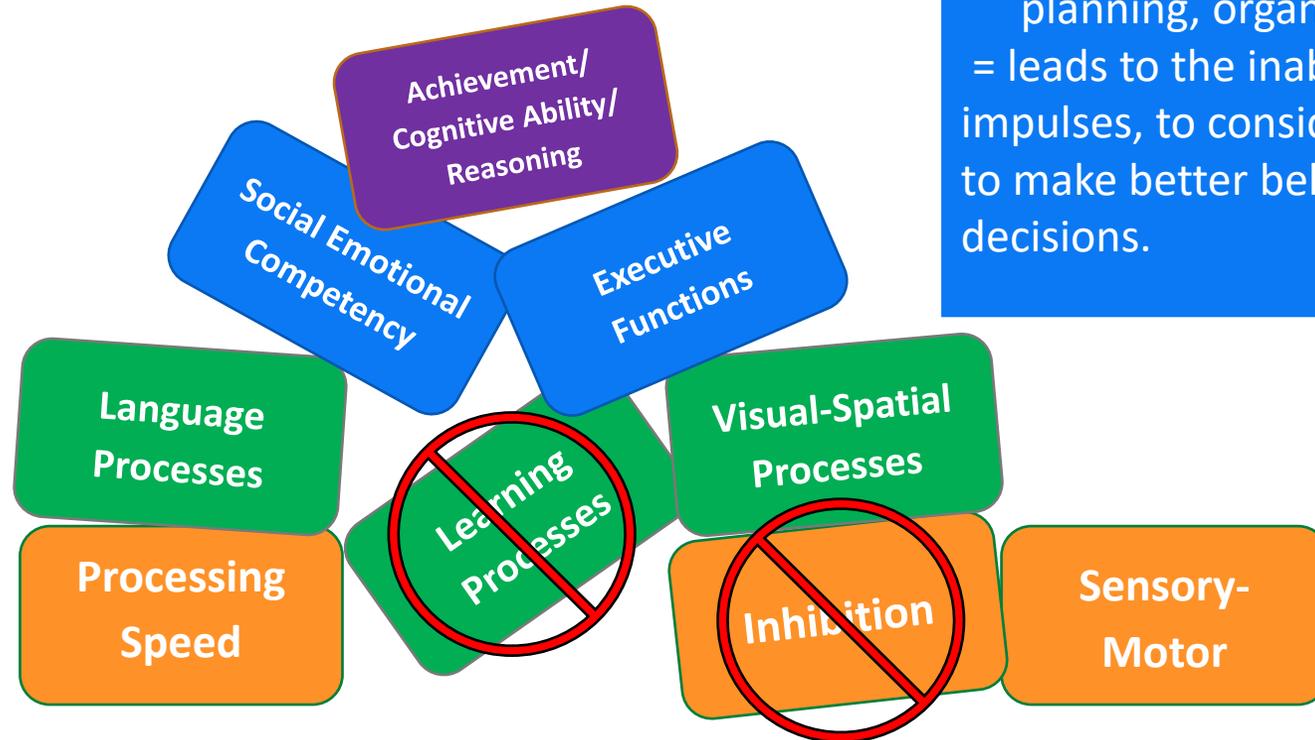
The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007; Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © – further adapted by the CO Brain Injury Steering Committee, 2016.



Social INcompetence:

- Lack of ATTENTION to feedback in environment
  - Poor MEMORY
  - Poor LEARNING ...
- = leads to repetitive mistakes



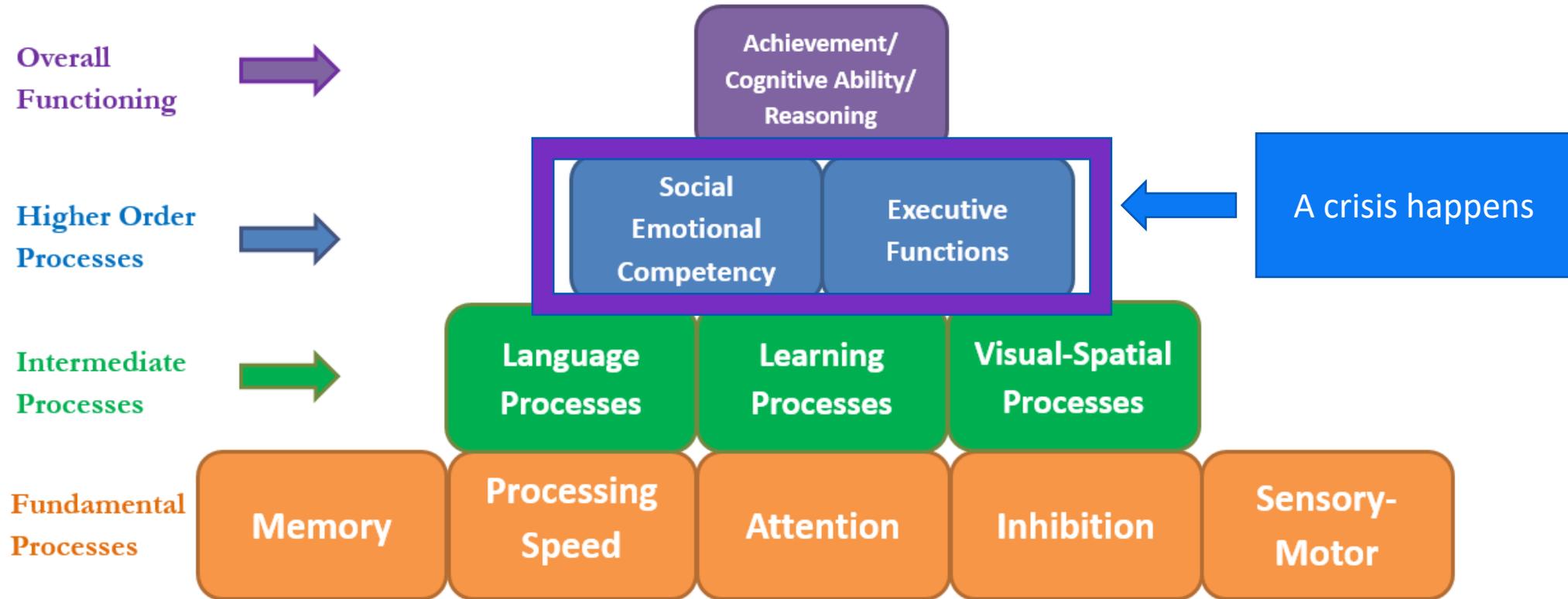
Executive DYSfunction:

- Inability to delay gratification (wait) or inhibit impulses
  - Inability to manage time – no future thinking which results in poor planning, organization or initiation ...
- = leads to the inability to delay impulses, to consider other options and to make better behavioral or social decisions.

The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007; Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © – further adapted by the CO Brain Injury Steering Committee, 2016.

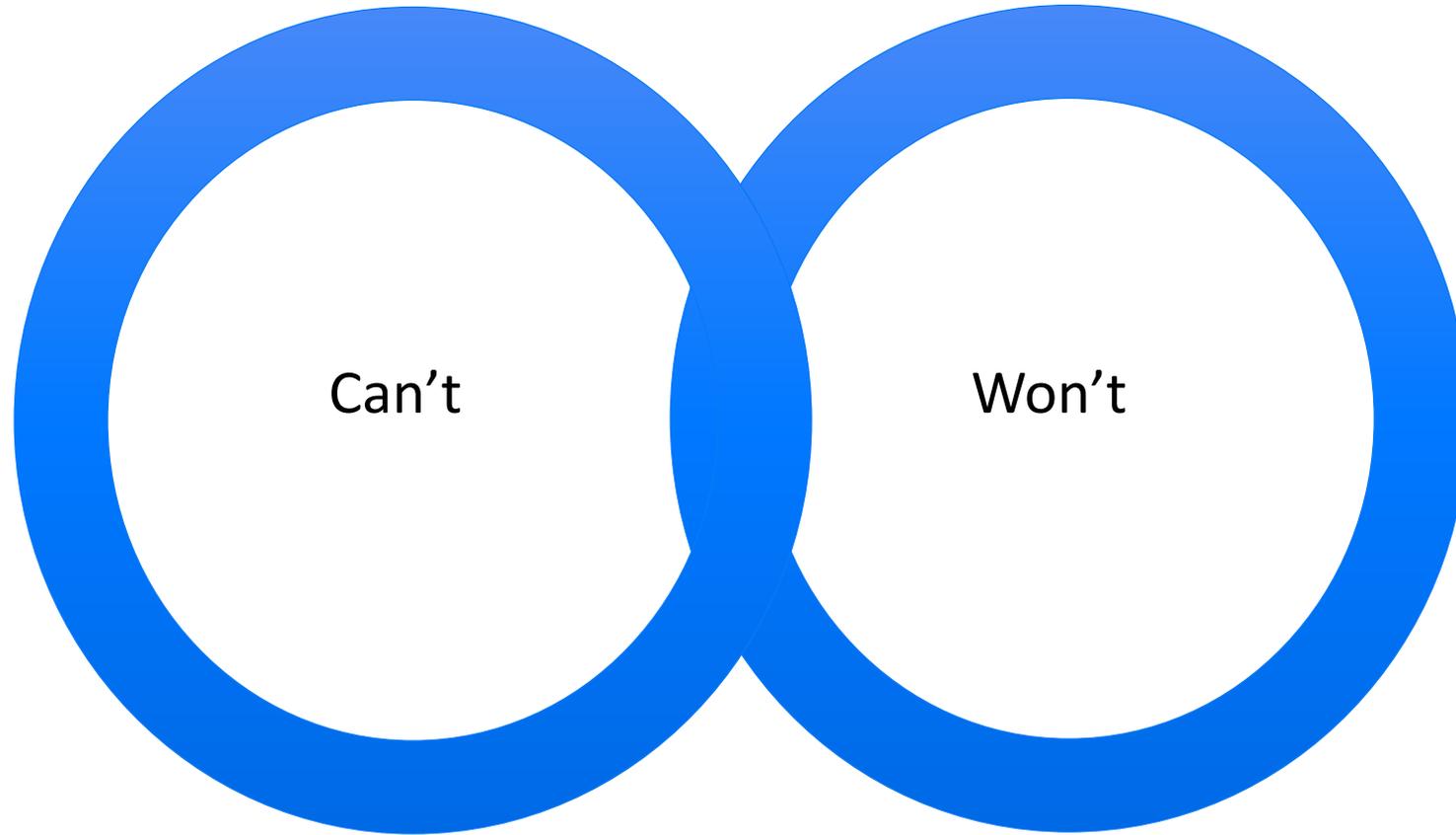
# What Does This Mean?



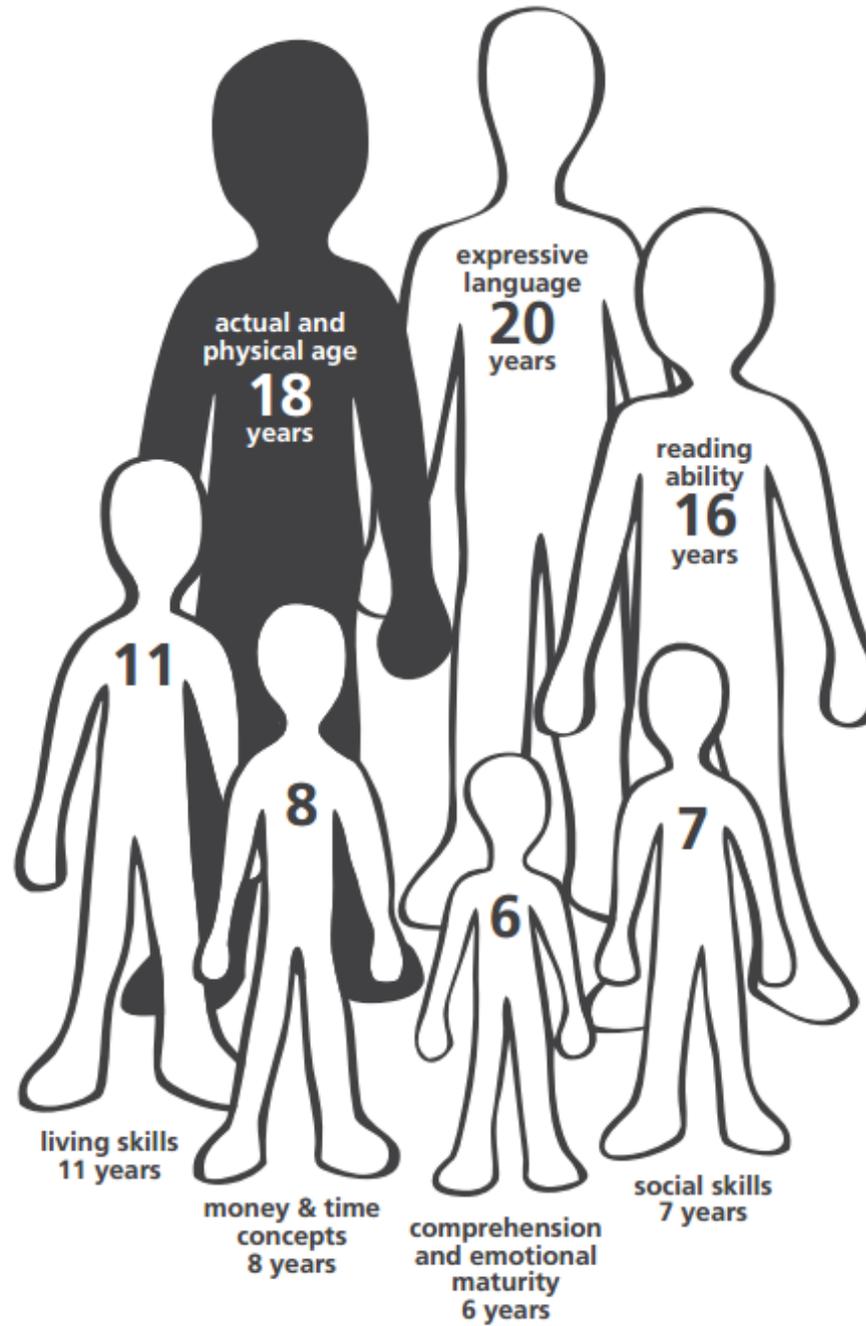
The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007; Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © – further adapted by the CO Brain Injury Steering Committee, 2016.

# Is it Can't or is it Won't?

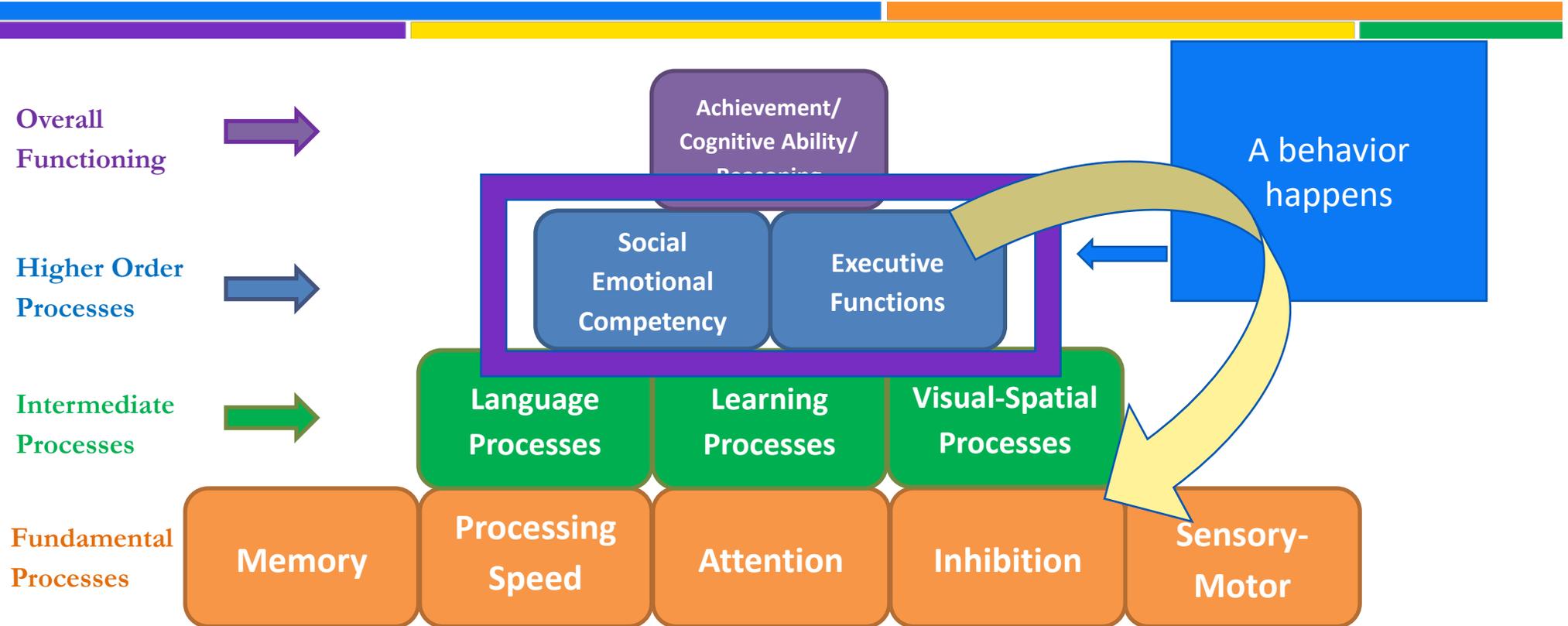


# Unevenness



Source: Jodee Kulp  
<http://www.betterendings.org>

# Drill it Down



The Hierarchy of Neurocognitive Functioning © - created by Peter Thompson, Ph.D. 2013, adapted from the works of Miller 2007;

Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development © – further adapted by the CO Brain Injury Steering Committee, 2016.

# Collaborative Problem Solving - CPS

<https://thinkkids.org/>

People Do Well If They Can: the belief that if a person *could* do well, they *would* do well. In other words, if the person had the skills to exhibit adaptive behavior, he/she wouldn't be exhibiting challenging behavior.

## What's Your Explanation?

Your explanation has major implications for how you'll help. If you believe a person's behavior is challenging because of lagging skills, then rewarding and punishing may not be the ideal approach. Solving those problems and **teaching those skills** would make better sense.

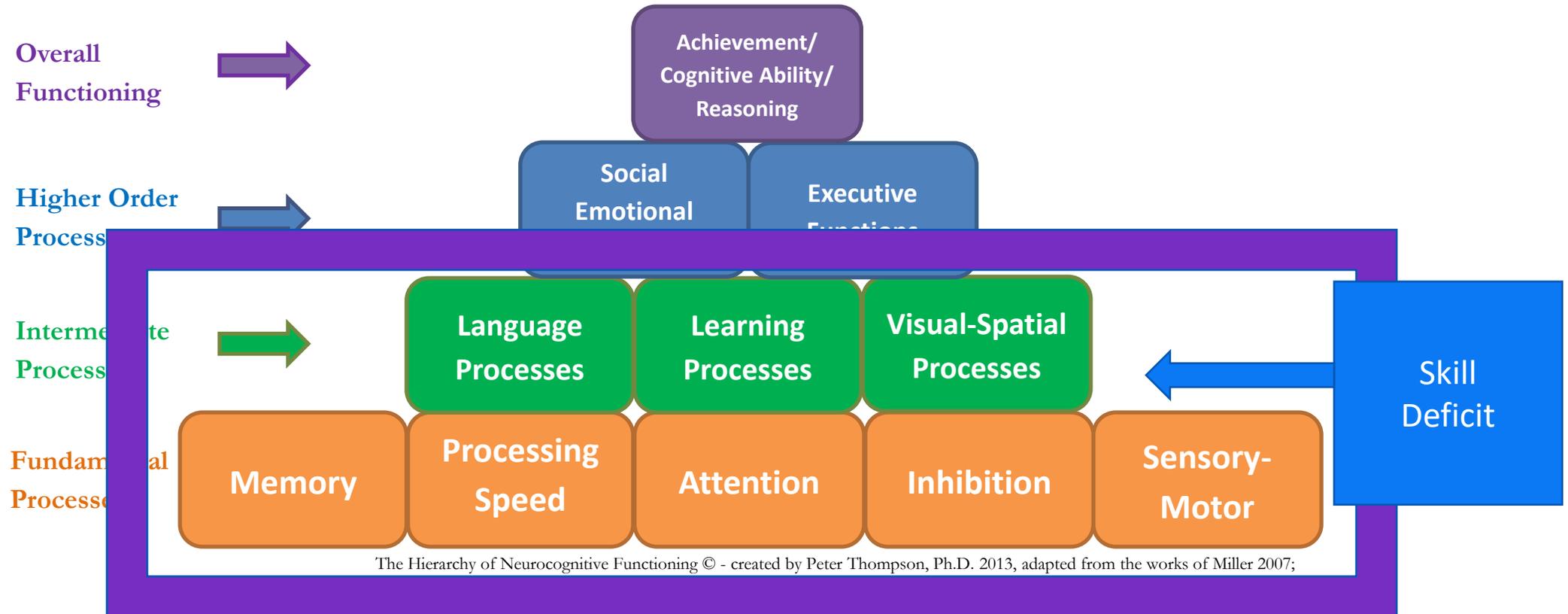
# What do you know (or suspect) about your student?

---

- Toxic stress?
- Mental health issues?
- FASD?
- Traumatic Brain Injury or Non-Traumatic Brain Injury? Assault? In a gang?
- Risky Behavior? Motor vehicle accident? Motorcycle accident? Falls?
- A victim of domestic violence? The abuser? The victim of child abuse?
- Substance Use?



# Could a behavior be a Can't instead of a Won't?



# COKidswithbraininjury.com



The screenshot shows the homepage of the Colorado Kids with Brain Injury website. At the top, there is a navigation bar with logos for Brain Injury Alliance Colorado, MINDSOURCE Brain Injury Network, and the Colorado Department of Education. The main header features a young boy's face and the text "COLORADO KIDS with Brain Injury". Below this is a navigation menu with links for HOME, FOR EDUCATORS AND PROFESSIONALS, FOR PARENTS, UPCOMING EVENTS, KEY TERMS, and CONTACT US. The main content area has two large buttons: "Educators and Professionals" and "Parents", both with "ENTER HERE" arrows. To the right, there is a "WELCOME TO THE COLORADO KIDS WITH BRAIN INJURY WEBSITE" section with a paragraph of text, followed by an "ANNOUNCEMENTS & UPDATES" section with a link to a manual.

**Brain Injury Alliance COLORADO** **MINDSOURCE BRAIN INJURY NETWORK** **COLORADO Department of Education**

## COLORADO KIDS with Brain Injury

Stay Connected! Join our Listserv

HOME FOR EDUCATORS AND PROFESSIONALS FOR PARENTS UPCOMING EVENTS KEY TERMS CONTACT US

### Educators and Professionals

ENTER HERE >

### Parents

ENTER HERE >

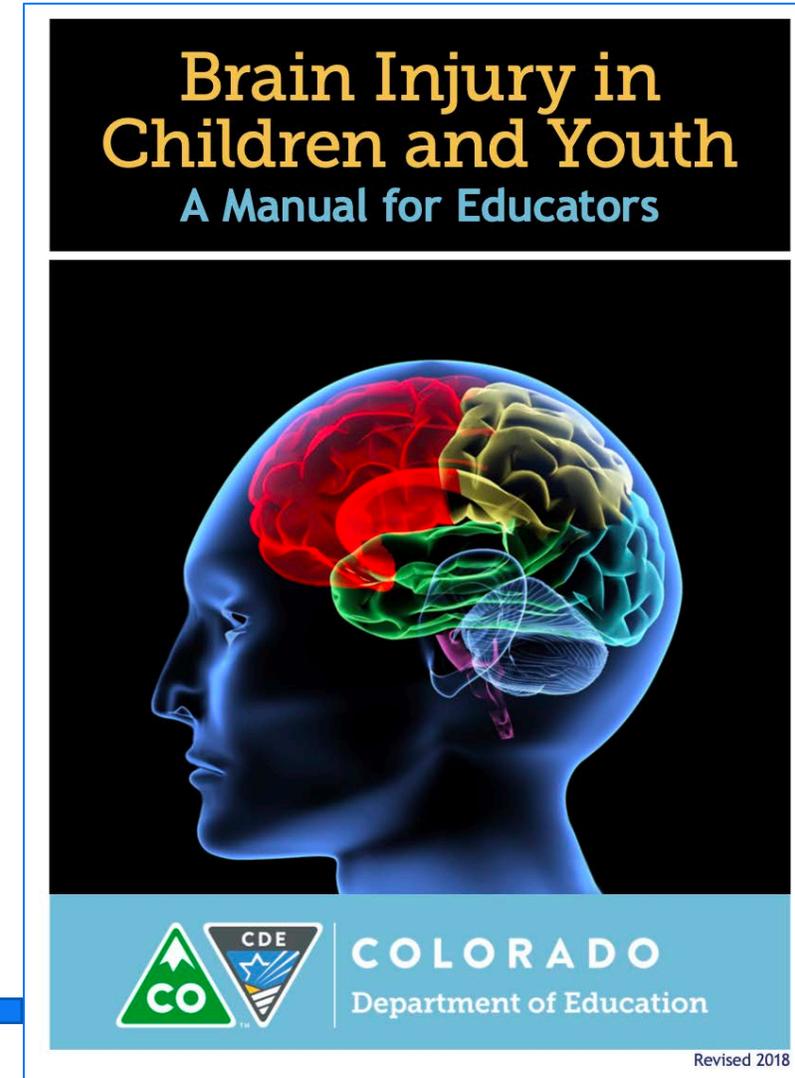
#### WELCOME TO THE COLORADO KIDS WITH BRAIN INJURY WEBSITE

This website serves as a tool for educators, school administrators, school psychologists, related services professionals, community partners, and families to help support our kids in Colorado with brain injuries. The design of this website was funded through a community grant from MINDSOURCE Brain Injury Network within the Colorado Department of Human Services and is maintained by the Brain Injury Consultants at the Colorado Department of Education.

#### ANNOUNCEMENTS & UPDATES

Check out the revised **Building Blocks of Brain Development** – [Click here to view.](#)

**Brain Injury in Children and Youth: A Manual for Educators.** [Click here to view the manual.](#)



The image shows the cover of a manual titled "Brain Injury in Children and Youth: A Manual for Educators". The cover features a stylized human head in profile with a colorful brain (red, yellow, green, blue) inside. At the bottom, there are logos for the Colorado Department of Education (CDE) and the state of Colorado (CO). The text "COLORADO Department of Education" is prominently displayed. A blue arrow points from the manual cover towards the website screenshot on the left.

## Brain Injury in Children and Youth

### A Manual for Educators

**CO** **CDE** **COLORADO**  
Department of Education

Revised 2018

[https://www.cde.state.co.us/cdesped/tbi\\_manual\\_braininjury](https://www.cde.state.co.us/cdesped/tbi_manual_braininjury)

# How do you drill it down?

## Neurocognitive Evaluation Form (NEF)

**Instructions:** The rater is asked to rank the student on several areas of functioning as compared to the student's **same** aged peers and/or classmates. A ranking of **Green** is considered an ability commonly observed in most (70%) students of similar age to the student and is **not an area of primary concern** for the student. A ranking of **Yellow** is an observed ability area that the student struggles, but the student can perform the task intermittently. A ranking of **Red** is a rarely observed or never observed ability area and signals a major area of concern. **Areas ranked Red or Yellow are domains that may be targeted for further assessment.**

Date: \_\_\_\_\_ Rater's Name/Title: \_\_\_\_\_

Student's Name: \_\_\_\_\_ Student's Age and Grade: \_\_\_\_\_

Class Observed: \_\_\_\_\_ Time of Day and Day of Week: \_\_\_\_\_

Less positive

More Positive

ATTENTION 3 SUBTYPES	Red	Yellow	Green	Light Blue	Dark Blue
SELECTIVE/FOCUSED	Significantly Below Average	Slightly Below Average	Average	Slightly Above Average	Significantly Above Average
Focuses on teacher					
Attends to detail of task					
Orients to speaker/staff					
Focuses without daydreaming					
Looks at board					

### BUILDING BLOCKS ▾ Down Up ▲

- ATTENTION
- INHIBITION
- PROCESSING SPEED
- MEMORY
- SENSORY AND MOTOR (OVER-STIMULATION)
- SENSORY AND MOTOR (UNDER-STIMULATION)
- MOTOR – FINE
- MOTOR – GROSS
- NEW LEARNING
- LANGUAGE – RECEPTIVE
- LANGUAGE – EXPRESSIVE
- LANGUAGE – SOCIAL PRAGMATIC
- VISUAL-SPATIAL
- EXECUTIVE FUNCTION: INITIATION
- EXECUTIVE FUNCTION: PLANNING
- EXECUTIVE FUNCTION: ORGANIZATIONAL SKILLS
- EXECUTIVE FUNCTION: MENTAL FLEXIBILITY
- EXECUTIVE FUNCTION: REASONING
- SOCIAL/EMOTIONAL COMPETENCY

### BEHAVIORAL IMPACTS

- Spacey and forgetful
- Easily distracted
- Difficulty with turn taking
- Doesn't turn in assignments
- Fidgets/squirms in seat or doesn't stay in seat
- Interrupts conversations
- Loses things
- Low frustration tolerance
- Off topic
- Talks excessively

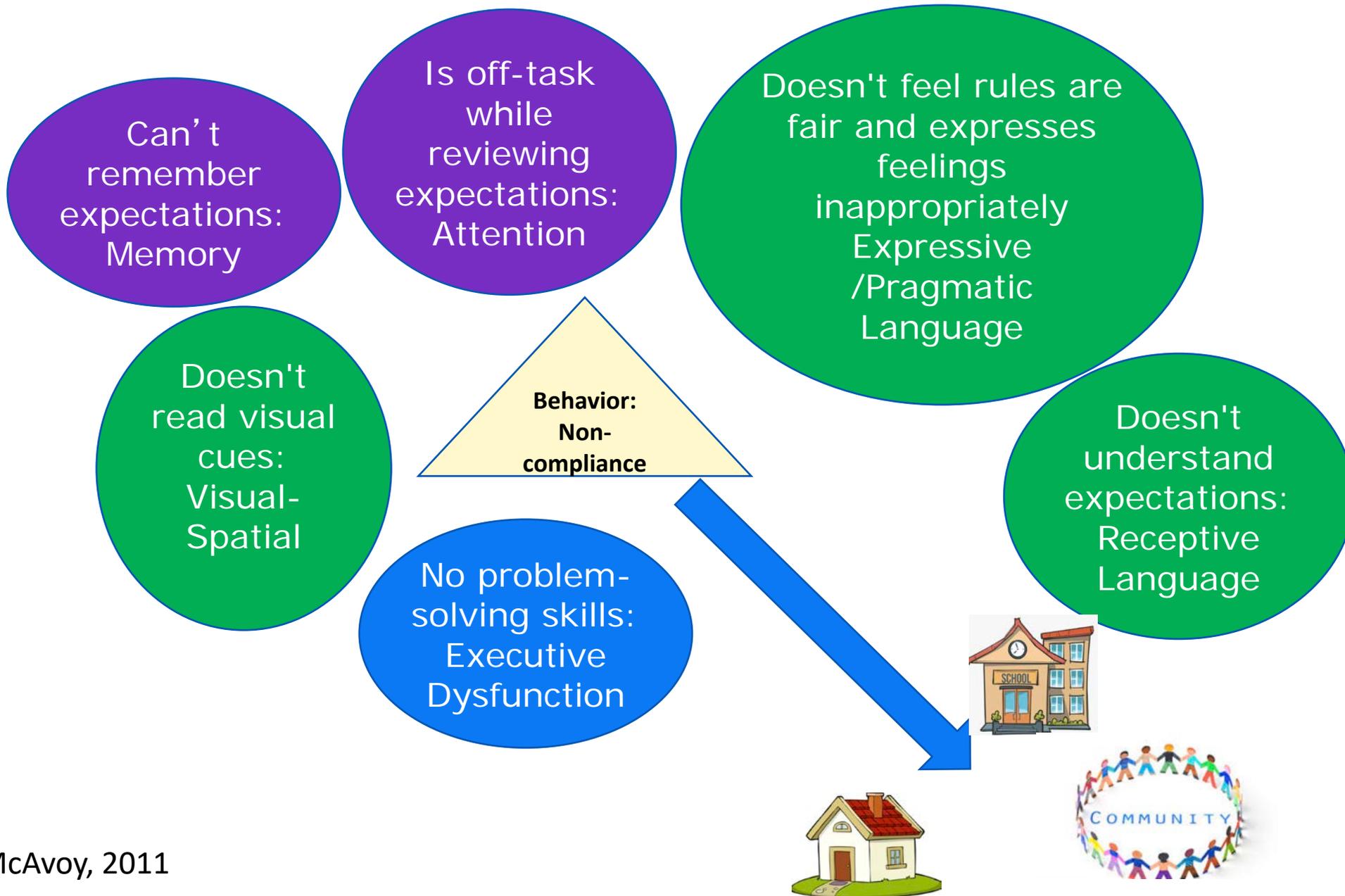
### COGNITIVE ACADEMIC IMPACTS

- Careless mistakes on school work
- Difficulty following directions
- Does not follow through with directions/tasks
- Doesn't complete assignments
- Erratic memory
- Fails to give close attention to school work
- Has inconsistent performance in school
- Can't keep up with rest of the class

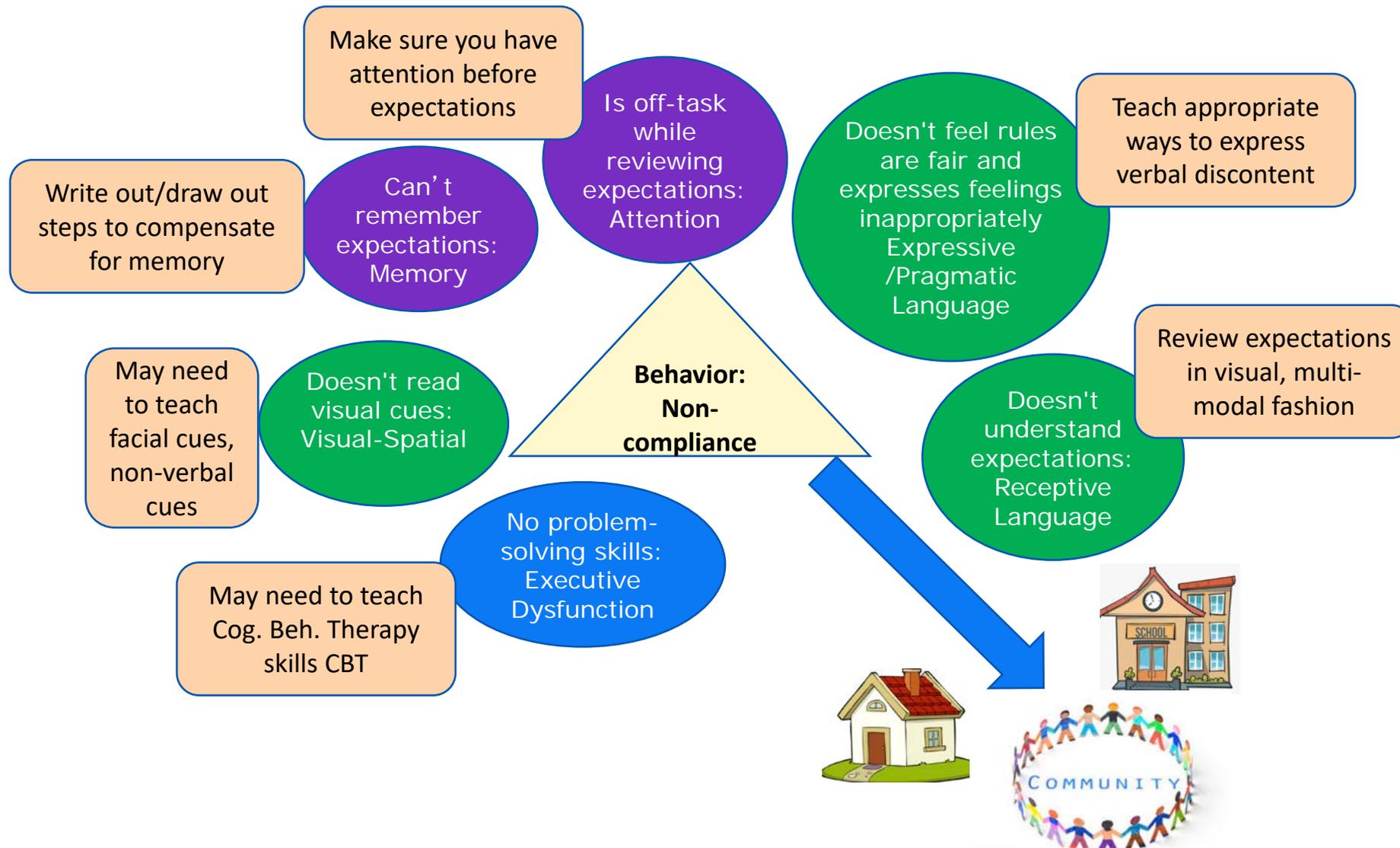
### ASSESSMENT SUGGESTIONS

(These assessments are used to look at attention impacts secondary to brain injury, not to diagnose ADHD/ADD.)

- A Developmental Neuropsychological Assessment, 2<sup>nd</sup> (NEPSY-II): Auditory Attention and Auditory Attention Response Set
- Cognitive Assessment System, 2<sup>nd</sup> (CAS2): Attention Scale (Consider Planning Scale)
- Wechsler Intelligence Scale for Children, 5<sup>th</sup> (WISC-V): Cancellation, Symbol Search, Coding, Working Memory Index and Auditory Working Memory Index
- Differential Ability Scale, 2<sup>nd</sup> (DAS-II): Working Memory Composite
- Woodcock Johnson, 4<sup>th</sup> (WJ-IV) Tests of Cognitive Abilities: Verbal Attention, Numbers Reversed, Object-Number Sequencing, Pair Cancellation, Letter-Pattern Matching
- Conners Continuous Performance Test, 3<sup>rd</sup> (CPT3)
- Auditory Continuous Performance Test
- Tasks of Executive Control (TEC)
- Test of Everyday Attention for Children (TEA-CH)
- Behavior Assessment System for Children, 3<sup>rd</sup> (BASC-3)
- Behavior Rating Inventory of Executive Function, 2<sup>nd</sup> (BRIEF-2): Working Memory (examine specific items)
- Comprehensive Executive Function Inventory (CEFI)
- Delis Rating of Executive Function (D-REF)



Adapted from McAvoy, 2011



Adapted from McAvoy, 2011

# The A B C's – study behavior for a few days

## Antecedent

What happens  
right before the  
behavior?

## Behavior

In Math class, mid-  
morning...

Johnny puts his head on  
desk  
Refuses to do work  
Starts to yell, throw  
papers  
Para removes him to  
hallway

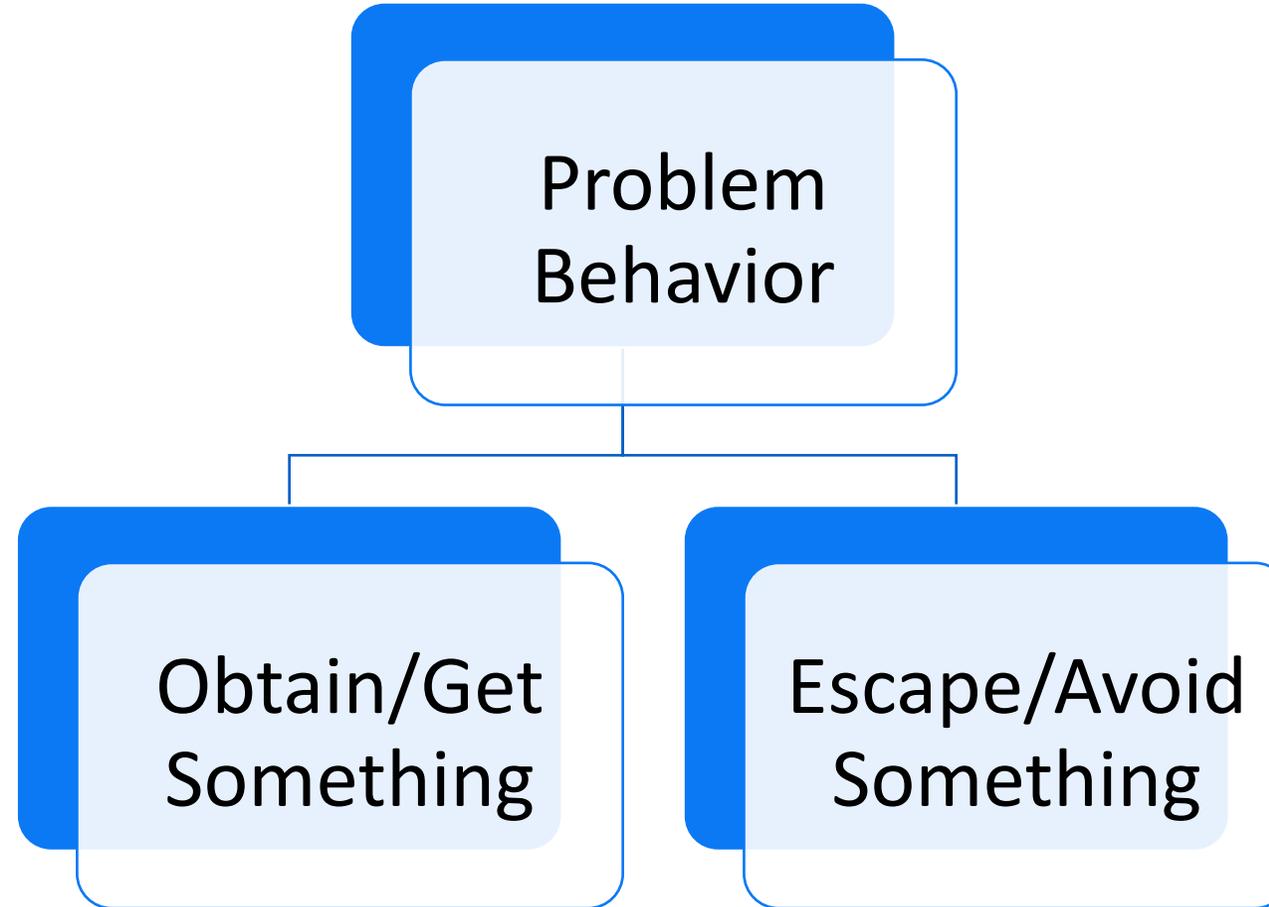
## Consequence

What happens  
right after the  
behavior?



# Functional Behavioral Assessment (FBA)

---



# Limited perspective ... Presupposes “Will”

## To Obtain

Johnny gains attention

Johnny gains social  
currency with peers by  
getting out of class

Johnny controls  
teacher’s attention

## Behavior

In math class, mid-morning

Johnny puts his head on desk

Refuses to do work

Starts to yell, throw papers

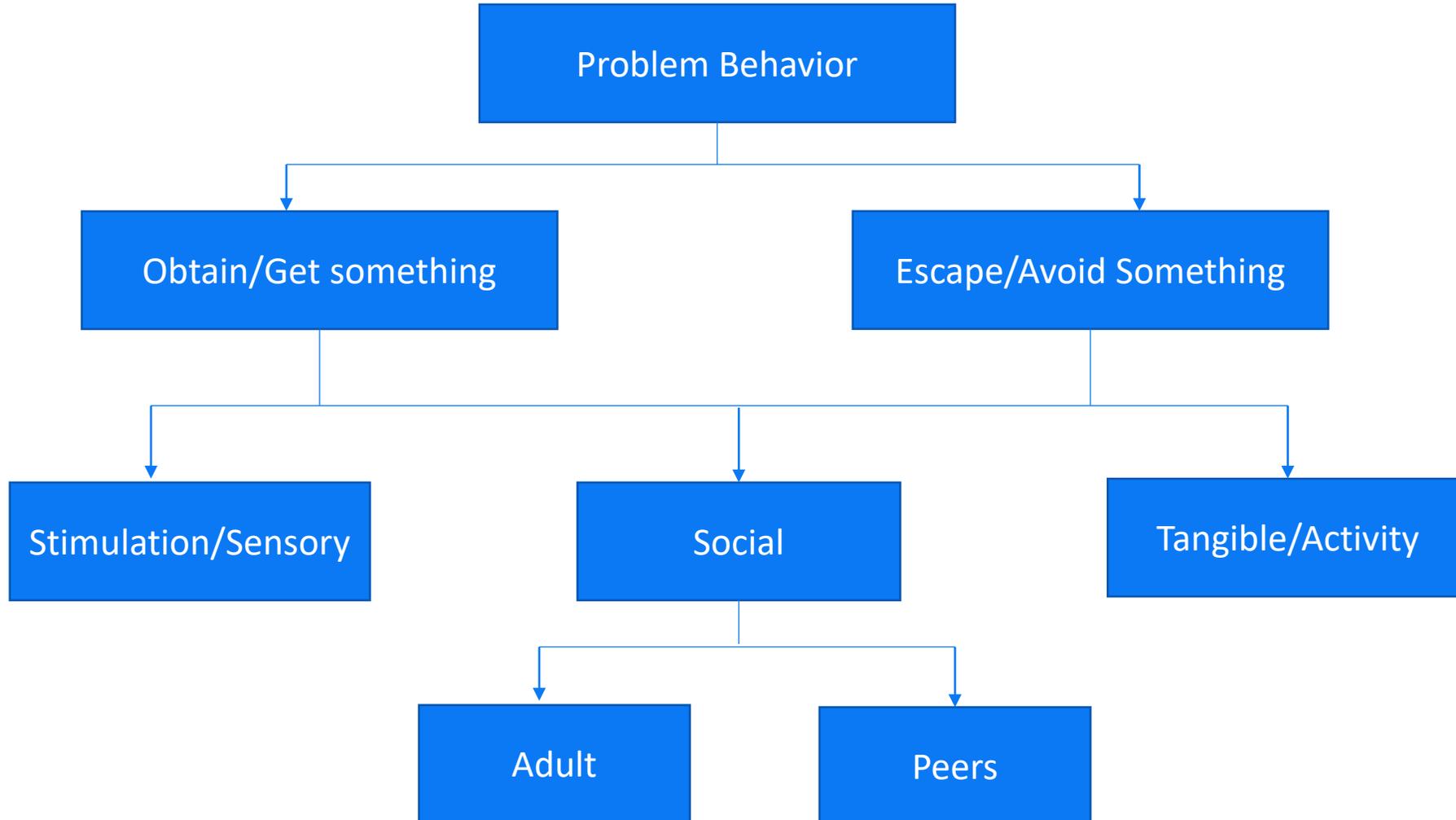
Para removes him to hallway

## To Avoid

Johnny gets out of  
doing math work



# Applying the Building Blocks to FBA's:



# What if it's not what it seems? A behavior problem? What if it's a "skill" deficit?



To obtain something

To manipulate for power, attention or control

To gain pride  
To save face  
To maintain secrecy about skill deficits

To avoid something

To manipulate out of something that needs to be done

To decrease stimulation  
To avoid pain  
To escape embarrassment

# Hypothesis of Function on Behavior

Is Johnny tired (mental fatigue)?

Does he understand the directions to the work (receptive language deficit)?

Was he paying attention when it was taught (attention deficit)?

Did he learn the lesson but could not convert it into meaningful content (new learning/working memory deficit)?

Does he have the language necessary to let the teacher know he does not know how to start/do the work (expressive language)?

## Behavior

In math class, mid-morning

Johnny puts his head on desk

Refuses to do work

Starts to yell, throw papers

Needs to be removed to hallway

## Outcome

Johnny's is "saving face/pride"

Johnny's expressing frustration b/c he is lost in math

Johnny's creating a diversion because he's embarrassed that he is lost in math

Johnny is removing himself from:

Overstimulation

From failure

From embarrassment

# Applying the Building Blocks into BIP's (Behavior Intervention Plan)... What's your best hypothesis?

Attention

Receptive Language

Replacement behavior	Who/When	Progress Monitor
<p>We want Johnny to do work in math when asked so we will teach him to:</p> <ul style="list-style-type: none"> <li>▶ Listen carefully to the teacher during instructions.</li> </ul>		
<p>For attention: teach skills that sharpen his ability to focus.</p>	<p>For attention: Special education teacher and paraprofessional teach Stop/Relax/Think (SRT) skills to promote better focus: 3 times per week.</p>	<p>For attention: Track Johnny's ability to use the SRT skills to pay better attention to directions.</p>
<p>For receptive language: check for comprehension of instructions before starting work.</p>	<p>For receptive language: Paraprofessional can discreetly check in with Johnny before starting the task. Have Johnny repeat the instructions as he understood them and correct distortions in his understanding. Teach this skill: Daily. (An environmental accommodation may be that the teacher and paraprofessional do some pre-teaching of the math material.)</p>	<p>For receptive language: Track Johnny's ability to appropriately utilize the check-in from paraprofessional.</p>
<ul style="list-style-type: none"> <li>▶ Teach Johnny to raise his hand and ask for clarification.</li> </ul> <p>Johnny needs to experience reward by being successful academically and socially in the math class. He needs to experience reward by staying in math class.</p>	<p>Teacher and paraprofessional teach Johnny to raise his hand and appropriately ask for clarification via role play. Teach this skill: 3 times per week.</p>	<p>Track number of times Johnny can appropriately raise his hand and ask for clarification.</p> <p>Track the decline in number of times that Johnny refuses to do work and is removed from the classroom.</p>

# Brain Injury in Children and Youth

## A Manual for Educators



**COLORADO**  
Department of Education

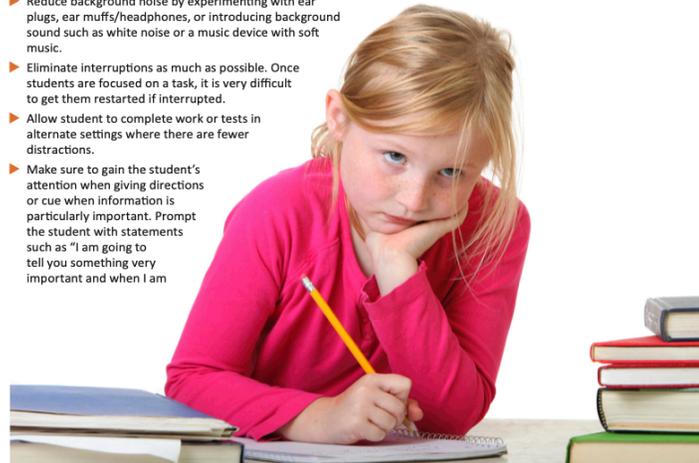
Revised 2018

## Attention

- ▶ Difficulties shifting attention from an earlier event or topic or transitioning from one activity to another.
- ▶ Talks excessively, blurts out or talks about inappropriate or irrelevant topics.
- ▶ Takes poor notes.
- ▶ Interrupts conversations.
- ▶ Does not follow classroom discussions/lectures.
- ▶ Difficulties with taking turns.
- ▶ Makes comments that are off topic or not related to the situation.
- ▶ Low frustration tolerance.
- ▶ Difficulties staying in one place and sitting still.
- ▶ Does not object to the teacher, staff or speaker.

### Attention and Concentration: Strategies for Intervention

- ▶ Specifically teach and practice what it looks like to pay attention. What is our body language? What are our eyes doing? Our mouths?
- ▶ Use verbal and visual cues to refocus student as well as frequent checks for understanding.
- ▶ Provide clear expectations for what the student is expected to accomplish during the activity.
- ▶ Provide opportunities for the student to take breaks throughout the day.
- ▶ Schedule most important work during times when the child has displayed the greatest concentration.
- ▶ Alternate classroom activities to provide movement and hands-on learning opportunities after periods of sitting, listening and working at their desks. Increase interest with new, stimulating activities. Alternate preferred and non-preferred tasks.
- ▶ Position student nearest to location of instruction and away from distractions (e.g. doors, windows, high traffic areas, and other off-task children).
- ▶ Connect new learning to prior knowledge or with areas of interest.
- ▶ Seat next to positive peers with age-appropriate attention abilities to help with redirection and understanding of instructions.
- ▶ Break assignments into smaller and shorter steps. Present information in short and concise segments.
- ▶ Clear desk and area of everything except for what is needed for task at hand.
- ▶ Alternate learning opportunities after periods of sitting, listening and working at their desks. Increase interest with new, stimulating activities. Alternate preferred and non-preferred tasks.
- ▶ Reduce background noise by experimenting with ear plugs, ear muffs/headphones, or introducing background sound such as white noise or a music device with soft music.
- ▶ Connect new learning to prior knowledge or with areas of interest.
- ▶ Eliminate interruptions as much as possible. Once students are focused on a task, it is very difficult to get them restarted if interrupted.
- ▶ Break assignments into smaller and shorter steps. Present information in short and concise segments.
- ▶ Allow student to complete work or tests in alternate settings where there are fewer distractions.
- ▶ Make sure to gain the student's attention when giving directions or cue when information is particularly important. Prompt the student with statements such as "I am going to tell you something very important and when I am done you will repeat it back to me."



## Receptive Language

### Social Pragmatics

- ▶ Difficulty understanding and negotiating social rules.
- ▶ Can be socially withdrawn or seen as a "follower".
- ▶ Difficulty in greeting others, taking turns in conversation and maintaining topics.
- ▶ Difficulty remaining on topic.
- ▶ Sarcasm, figures of speech, jokes and humor can be confusing, misunderstood or used inappropriately.
- ▶ May appear over-emotional and over-reactive or flat and without emotional affect.
- ▶ Struggles with reading facial cues and body language.
- ▶ Have little insight or awareness of how their behaviors are inappropriate or impact others.
- ▶ Uses inappropriate eye contact and tone of voice.
- ▶ Difficulty with proprioception (knowing body in space) and proximity (personal space).
- ▶ Difficulty in building and maintaining friendships. Doesn't seem to fit into social groups in less structured settings (recess, lunch, school hallways, etc.).
- ▶ May say too little or too much, overuse certain phrases, or demonstrate repetitiveness in speech or communicative gestures.
- ▶ Difficulty working in small groups in class.

### Language: Strategies for Intervention

#### Receptive

- ▶ Give directions slowly and one at a time, using short simple sentences.
- ▶ Reinforce verbal concepts with visual cues; use simple graphic organizers.
- ▶ Have child repeat or paraphrase instructions.
- ▶ Identify targeted vocabulary and integrate throughout classroom lesson.
- ▶ Reading to the child and discussing the text provides language models and exposure to a variety of aspects of language.
- ▶ Teach listening comprehension strategies to help expand understanding of social and academic language situations.
- ▶ Teach students to advocate and ask for clarification, repetition or for information to be presented more slowly.
- ▶ Provide guided notes or outlines to fill in keywords.
- ▶ Start with concrete concepts and then introduce related abstract concepts.
- ▶ Avoid using sarcasm and figures of speech; explain the meaning of abstract or figurative language.
- ▶ Allow wait time for processing what is being said and to form own responses.
- ▶ Cue the student that what you are about to say has importance.
- ▶ Teach language memory strategies such as chunking, visual imagery and verbal rehearsal.
- ▶ Break down complex ideas into concrete examples.

#### Expressive

- ▶ Teach the student to rehearse silently before replying.
- ▶ Provide word banks if word finding is difficult.
- ▶ Ask open ended questions and ask for elaborations.
- ▶ Model and encourage participation in natural conversations.
- ▶ Allow child to dictate thoughts prior to writing; provide feedback and modeling regarding grammar form or word choice.
- ▶ Provide picture cues to support memory for details and sequencing information when telling or retelling a story or event.



# Behavior Intervention Plan:

The Behavior Intervention Plan (BIP) is the road map to changing the behavior. While the behavior is functional for Johnny in the short run it will not serve him well over time. If Johnny's behavior continues, he will struggle to learn math, fail to keep pace with his peers, strain relationships with his teachers and begin (or perpetuate) a negative perception of himself.

- ❖ Identify the problem behavior (the behavior that is dysfunctional for the adult but exquisitely adaptive for the student)
- ❖ Understand the skill deficit underlying the behavior



- ❖ Decide upon a replacement behavior (the desirable behavior for the adult)
- ❖ A plan to teach the replacement behavior including:
  - ❖ who/where/when
- ❖ A timeframe to assess the success of the plan
- ❖ A way to objectively assess the success of the plan

# Behavior Intervention Plan (BIP) versus a Behavior Contract

<b>BIP TEACH</b>	<b>Contract REWARDS/CONSEQUENCES</b>
<p>A plan to teach to a skill deficit to increase desired behaviors, to increase success and competence</p> <p>You cannot assume our students with specific needs have the skills necessary to show you the behavior. TEACH it first (BIP), then reward it with a behavior contract</p>	<p>Once a desired behavior is taught, it can be strengthened with strong rewards (stickers or feelings of pride and competence) or removal of negatives (teacher/parent stops yelling or loss of the feelings of failure and incompetence)</p>

**A person cannot produce a behavior, no matter how big the carrot or stick, that has not yet been taught!**

# Setting Events:



Setting events refers to internal factors that can affect a student's attention, motivation, mood, or comfort that ultimately disrupts their ability to learn or behave. The events are often unknown to the student occurring on a subconscious, unrecognizable level. As a result, these types of events often remain unknown to the adults observing the student's external behavior as well.

## Examples:

- ❖ Hunger
- ❖ Fatigue
- ❖ Medication reactions
- ❖ Pain
- ❖ Trauma

- ❖ Seizures
- ❖ Gastrointestinal Problems
- ❖ Metabolic Problems
- ❖ Allergies
- ❖ Anxiety

- ❖ Sensory Overload
- ❖ Sensory Underload
- ❖ Dizziness
- ❖ Ruminative/obsessive thoughts

# What if your hypothesis is wrong? Try again!

Replacement Behavior	Who/When	Progress Monitor
<p>Johnny is exhausted by 10:15 AM (mental fatigue). What if this is not a skill deficit but a physical symptom that needs to be addressed with an environmental adjustment</p> <p><b>Mental Fatigue</b></p>	<p>In anticipation of fatigue, Johnny is asked to rest in bean bag chair at 10:00 am, right before math class</p>	<ul style="list-style-type: none"><li>• Note the length of time Johnny remains in Math class</li><li>• Note number of times Johnny can stay for the entire Math class</li></ul>

# Behavior Management



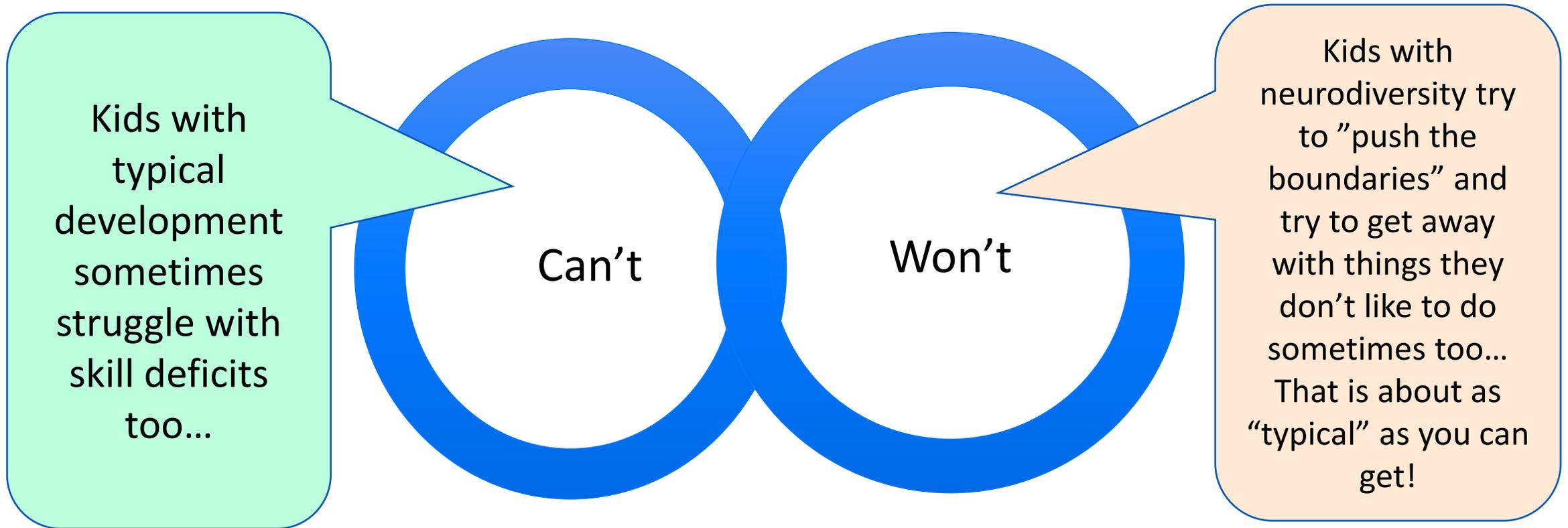
Thus, behavior management techniques can be classified into two categories:

(1) consequent strategies, which are used after a behavior occurs in an effort to prevent the continuation and recurrence of a behavior or to reinforce a behavior --- this presupposes “will” and results in a behavior contract

**(2) antecedent strategies, which are used before a behavior occurs in an effort to prevent or elicit a behavior, and --- this takes into account a skill deficit, setting events and results in a BIP.**

Although both can be effective ... in their own way, when applied at the right times.

**Crisis Prevention instead of Crisis Management**

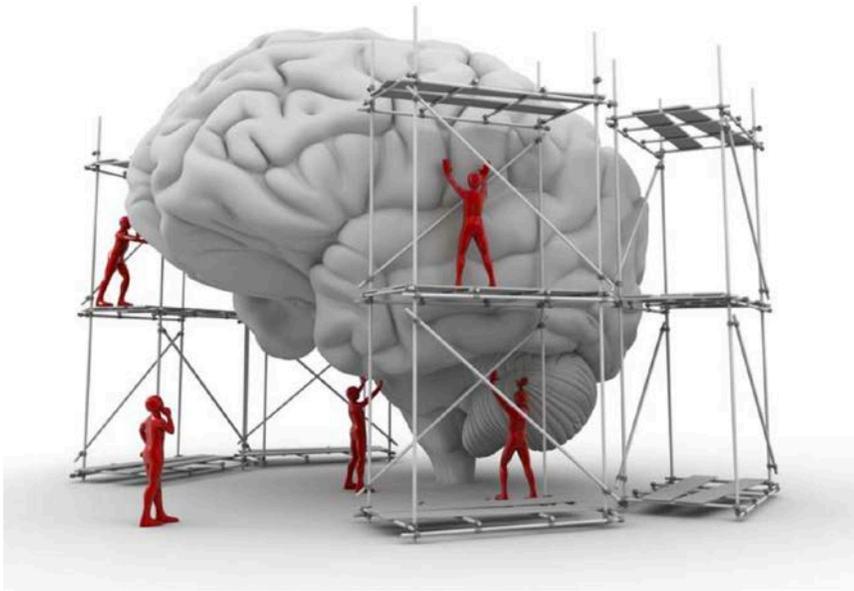


**Let's assume all our students with various needs (brain injury, ADHD, trauma, on the spectrum, FASD, mental health, learning disabilities) and with "typical" needs WILL succeed if they CAN succeed...**

**And let's take every opportunity to TEACH students behaviors we need them to know even if we think they are already old enough to know and produce those behaviors**



# Questions?



Karen McAvoy, PsyD

Brain Injury Educational Consulting Colorado, LLC

[Karen@GetSchooledOnConcussions.com](mailto:Karen@GetSchooledOnConcussions.com)

970-984-8765

Heather Hotchkiss, MSW

Colorado Department of Education

[Hotchkiss\\_h@cde.state.co.us](mailto:Hotchkiss_h@cde.state.co.us)

303-866.6739

# CO Brain Injury Resources



- CO Department of Education – Exceptional Student Services Unit:
  - Brain Injury in Children & Youth: A Manual for Educators  
<http://www.cde.state.co.us/cdesped/sd-tbi>
  - Building Blocks of Brain Development -  
[www.cde.state.co.us/cdesped/sd-tbi\\_buildingblocks](http://www.cde.state.co.us/cdesped/sd-tbi_buildingblocks)
- Colorado Kids Brain Injury Resource Network: Includes an online, user friendly, clickable version of the Building Blocks of Brain Development with the Assessment component - <http://cokidswithbraininjury.com/educators-and-professionals/brain-injury-matrix-guide/>
- Article: [Neuroeducational Evaluations – The School-Based Answer to Pediatric Neuropsychological Assessments](#) (2017. Crawford, N., Hotchkiss, H., McAvoy, K.)
- Website for Parents and Professionals: [www.COKidswithbraininjury.com](http://www.COKidswithbraininjury.com)
- Brain Check Survey: <http://www.lobi.chhs.colostate.edu/index.aspx>



# BrainSTEPS CO

Strategies Teaching Educators, Parents, & Students  
A BRAIN INJURY SCHOOL RE-ENTRY CONSULTING PROGRAM

- Brain Injury School Consulting Program
- In many Districts/BOCES across the state
- Inter-disciplinary Consultation Team
- Trained in brain injury and The Building Blocks of Brain Development©
- Funded in partnership by:



**COLORADO**  
Department of Education



**MINDSOURCE**  
BRAIN INJURY NETWORK



For more information go to: <http://www.cde.state.co.us/cdesped/brainsteps>





## Services

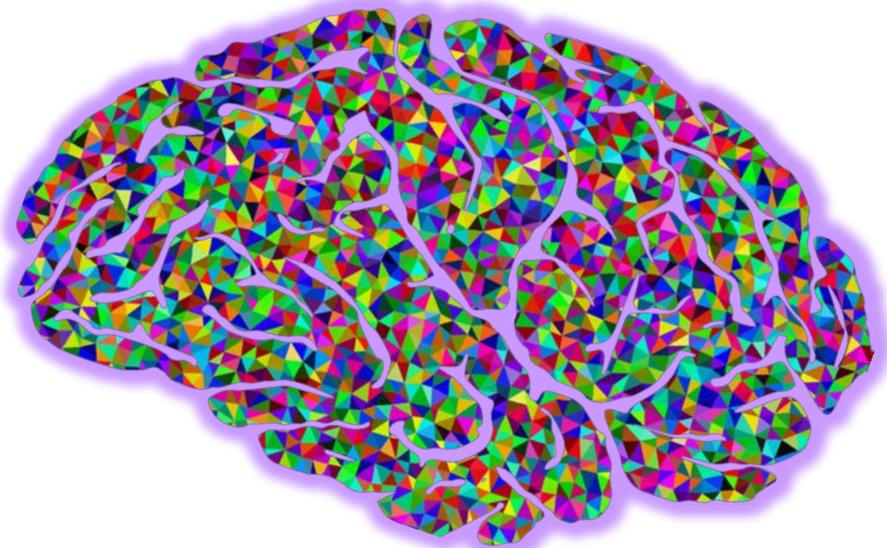
- ❖ Education Consultation
- ❖ Resource navigation
- ❖ Outreach and education
- ❖ Juvenile/criminal justice
- ❖ Self-management & skill building
- ❖ Classes and workshops
- ❖ Recreation and social programs
- ❖ And more – when in doubt, refer to us!
- ❖ **ALL AGES CAN ACCESS THIS  
FREE SUPPORT!**



# Brain Injury Resources



- Center on the Developing Child – Harvard University  
<https://developingchild.harvard.edu/>
- Centers for Disease Control: <https://www.cdc.gov/traumaticbraininjury>
- Brainline Kids: [http://www.brainline.org/landing\\_pages/features/blkids.html](http://www.brainline.org/landing_pages/features/blkids.html)
- Other Authors & Trainers:
  - Dr. Laura Anthony - <https://www.unstuckontarget.com>
  - Dr. Peg Dawson and Dr. Richard Guare - <https://www.smartbutscatteredkids.com>
  - Dr. Ross Greene - <https://drrossgreene.com>
  - Sarah Ward - <https://efpractice.com>



## **Heather Hotchkiss, MSW**

Principal Brain Injury Consultant  
Colorado Department of Education

[Hotchkiss\\_h@cde.state.co.us](mailto:Hotchkiss_h@cde.state.co.us)

303-866.6739