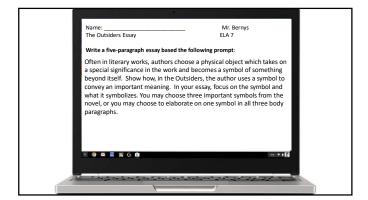
Executive Function Concepts				

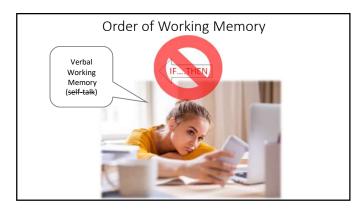












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Situational Awareness/Intelligence: STOP and Read the Room

Any action that allows students to STOP and direct themselves Read the Person: ROLE People FaceBodyAppearanceMoodPaceSaying-Tone (V) Over Time Organization/Objects Necessity & Relevancy The Space: Whole-Parts **Objects** ☐ Location of objects: In sight? Out of sight? ■ Purpose/Priority of Organization of ☐ How is that part organized? objects? ■ What is happening at **Get on the Timeline** this Moment in Time ☐ Sequence of actions ■ What is coming up? Time ☐ Kind of time? ☐ Time of day **▼**Predictable? □ Pace areas within the space? Navigate to different zones (parts) and the Navigate the Room ■ Pathways used to between wide angle ■ What's going on? ☐ Is it Expected or space(Whole), the ☐ Kind of space? Space ☐ Is there a shift Unexpected? lens of the

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Nonverbal Working Memory and Self Regulation

Working Memory: Holding information in your mind while mentally working with it or updating it

Critical for anything that unfolds over time

Inhibitory/Self Control: Resisting the strong inclination to do one thing and instead do what is most appropriate

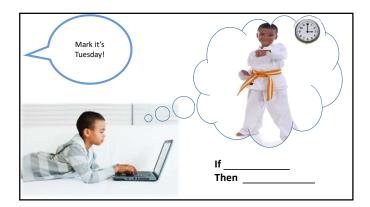
- · Attention resist distractions
- Emotion resist giving up
- Behavior resist impulse to do an action that is inappropriate

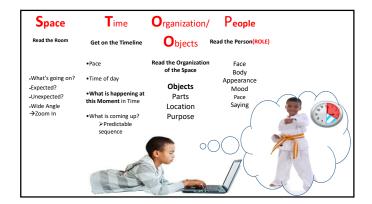
Planning: Use of cause and effect & means to an end reasoning needed: "if.....then...." thinking.



Situational Awareness/Intelligence: STOP and Read the Room **Objects** Time People **Space** Get on the Timeline ☐ Organization of The Space: Whole-Parts ☐ How is that part organized? ☐ Location of objects: In sight? Out of sight? ☐ Purpose/Priority of objects? ☐ Necessity & Relevancy ☐ Kind of space? ☐ Time of day ☐ Kind of time? ☐ What's going on? ☐ Is it Expected or ☐ Mood ☐ Kind of time? ☐ What is happening at this Moment in Time ☐ Sequence of actions ☐ Pace ☐ What is coming up? >Predictable? ☐ Pace ☐ Body Language ☐ Appearance Unexpected? Pathways used to Navigate to different areas within the space? ☐ Is there a shift between wide angle lens of the space(Whole), the zones (parts) and the details?

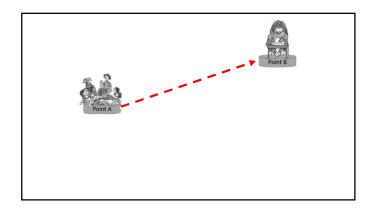


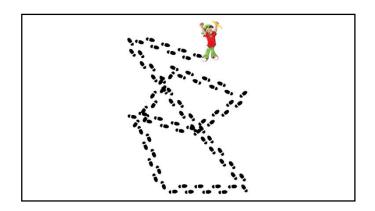


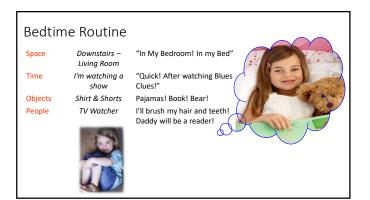




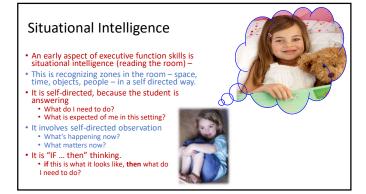
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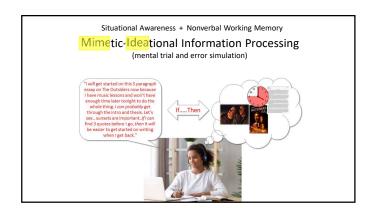


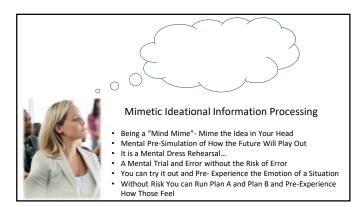












Be a Future Thinker: "Mind MIME iT"				
M	Future Scene Thinking: Make an Image: STOP What will it look like?			
I	Episodic Future Thinking: What do Look like? Self Projection into the Future			
M	Mental Time Travel (Temporal - Spatial): How am I Moving to achieve this?			
E	The Future Emotion: How will I feel? Emotional Physiological State			
i	Ifthen			
Т	Self Talk It is 'experiencing the self in time' and talking yourself through that experience so you are efficient and successful.			

Honey it is 7:15. We have to be out the door by 7:30. Quick. Go Upstairs and finish getting ready for school!







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MIMETIC processing is Episodic Forethought

The ability to imagine oneself at a particular time in a future situation

Important for

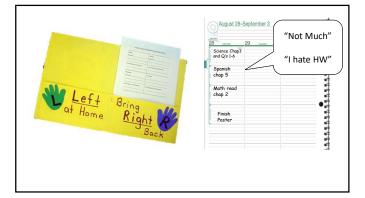
"Intention" to set goals and implementation intentions;

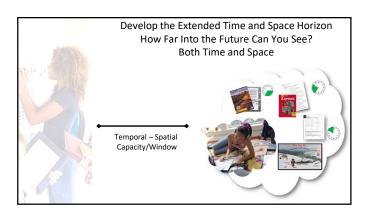
"Simulation" of a future event;

"Planning" to identify, organize, and prioritize the steps of a future task

"Predicting" to forecast affective states (e.g., how one will feel when one attains a goal; how one will feel if one encounters an obstacle along the way, and how one can "feel better" by imagining a Plan B to avoid that obstacle);

"Prospective Memory" to remember a future intention.





Development of the Time Horizon How Far into the Future can they Anticipate?

2 Years Old: *NOW*3-5 Years Old: 5-20 Min
K- 2nd Grade: Several Hours
3rd -6th Grade: 8-12 Hours
6th-12th Grade Years: 2-3 Days
17-23 Years Old: 2-3 Weeks
23-35 Years Old: 3-5 Weeks



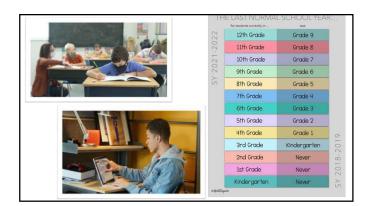
ADHD→EFDD: Executive Function Developmental Delay
- Typically of the Spatial Temporal Window

Average of a 3 to 3.5 year delay

Executive Function Skills Across the Day

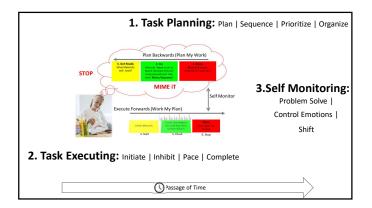
- Being Ready for Class
- Morning/Departing Routines
- Transitions within and between classes
- Managing Papers and Materials
- Completing work within time frames
- Homework
 - Accurately Record
 - Know what to do
 - Have the Required Materials
- Turn it In
- · Study for Exams
- · Complete multi-day/long term projects

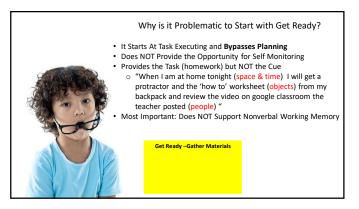




Key Underlying Executive Function Skills to Develop in School Age Children

- Nonverbal Working Memory / Mental Imagery
- · Situational Intelligence
- Impulse Control: Stop Wait Think (to develop the MIME skill)
- Episodic Memory: Re Experiencing an Event
- Internal Sense of the Passage of Time
- · Flexible Thinking
- Attention
- Stamina for learning
- Planning Skills





Student: Chronological Age:	Executive Function Age:
-----------------------------	-------------------------

Executive Functioning Skills Check-List



• 3-4 Year Olds

- ★Complete simple errands; "Get your shoes from the bedroom".
- 🛨 Clean and put items away with minimal assistance.
- Perform simple chores and self-care tasks with reminders and physical assistance if needed; clear dishes from table, brush teeth, get dressed.
- Inhibit unsafe or inappropriate behaviors; don't touch a hot stove; don't run into the street; don't grab a toy from another child; don't hit, bite, push, etc.

• 5-7 Year Olds

- ★Complete 2-3 step errands; "Put the napkin in the trash and then bring me a cup."
- ★Tidy bedroom or playroom independently.
- ★Initiate and perform simple chores and self-help tasks, but may need reminders; making their bed, make a bowl of cereal.
- ★Bring papers to and from school.
- ★Complete homework assignments (20-minutes maximum).
- ★Decide how to spend their money.
- ★Inhibit behaviors; follow safety rules, use appropriate language (e.g. not swearing or using bathroom language when not appropriate), raise hand before speaking in class, and keep hands to self.

• Ages 8-11

- Run errands, including those involving a time delay, such as remembering to bring something home from school without reminders.
- \bigstar Perform chores that take 10-30 minutes; setting the table, dusting.
- ★Bring books, papers, assignments to and from school.
- ★Keep track of belongings when away from home.
- \bigstar Complete the majority of homework assignments without assistance (1 hour maximum).

Executive Functioning Skills Check-List



Ages 8-11 (continued)

- \bigstar Plan simple school projects such as book reports; select book, read book, write report.
- ★ Remember changes in daily schedule including different after school activities.
- 🖈 Save money for desired objects and plan how to earn money.
- Inhibit/self-regulate behaviors; maintain composure when teacher is out of the classroom; inhibit temper tantrums and bad manners.

• Ages 12-14

- ★ Help out with chores around the home, including both daily responsibilities and occasional tasks that may take 60-90 minutes to complete; emptying dishwasher, raking leaves, shoveling snow etc.
- 🛨 Able to safely baby-sit younger siblings
- ★Appropriately use a system for organizing school work
- Independently follow complex school schedule involving multiple transitions with teachers and classrooms.
- ★Plan and carry out long-term projects, including tasks to be accomplished and a reasonable timeline to follow;
- 🛨 Plan time effectively, including after school activities, homework, family responsibilities
- tnhibit rule breaking in the absence of visible authority.

High School

- ★ Manage schoolwork effectively on a day-to-day basis, including completing and handing in assignments on time, studying for tests, and creating and following timelines for long-term projects.
- Establish and refine a long-term goal and make plans for meeting that goal; collegiate or other vocational goals.
- ★ Independently organize leisure time activities, including obtaining employment or pursuing recreational activities during the summer.
- Avoid reckless or risky behaviors (e.g. use of illegal substances, sexual acting out, shoplifting, or vandalism).

*If your child demonstrates difficulty in 2 or more of the above areas for their age, it is recommended that you contact an executive functioning specialist to further identify executive functioning needs and create strategies to address those needs.

Signs of Executive Functioning Issues at Different Ages

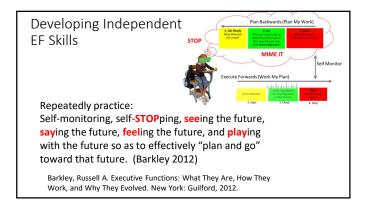
Signs of Executive Functioning Issues in Preschool				
	Gets frustrated easily and often throws things on the floor instead of asking for help.		Can't master simple classroom tasks like finding things in a cubby or packing up at the end of the day.	
	Has trouble following directions and often forgets what to do.		Frequently raises his hand but doesn't	
	Has frequent tantrums over things that seem fairly minor and manageable.		remember the answer when called on. Often insists on doing things a certain way and	
	Acts out aggressively instead of expressing feelings and frustrations.		has trouble making adjustments. Frequently gives unrelated answers to questions during group time.	
Signs of Executive Functioning Issues in Grade School				
	Starts one task and gets distracted, then doesn't ever finish the original task.		Has a desk full of loose papers and pencil stubs. But her schoolwork folder and pencil box are	
	Can solve a math problem one way but gets stuck when asked to solve it using another method.		empty. Panics when rules or routines are challenged, like going out to dinner instead of ordering in	
	Focuses on the least important thing you said. Often mixes up assignments and doesn't bring home the books and handouts needed to complete the work.		because it's Friday and that's pizza night. Struggles to find the right information in a word problem to come up with an equation.	
			Sticks with a plan even when it's clear that the plan isn't working.	
Signs of Executive Functioning Issues in Middle School				
	Wants to invite kids over but never gets around to scheduling it.		Has a hard time starting a big assignment and focuses on the less important details first.	
	Hesitates to make afterschool plans and instead just follows what the other kids are doing.		Frequently gets upset about small things like running out of his favorite snack at home.	
	Is still arranging materials in science lab while the other kids are halfway through the experiment.		Often thinks the teacher is being "unfair" when he's told to do his work at home, even though the other kids finished theirs in class.	



Signs of Executive Functioning Issues at Different Ages (continued)

Signs of Executive Functioning Issues in High School				
☐ Has trouble finishing short-answer tests in the time allotted.	■ Doesn't know when she's overstayed her welcome at a friend's house.			
■ Loses track of time and is often still "in the middle of something."	■ Has trouble working in groups and complains the other kids aren't working with her.			
☐ Hasn't filled out any of the job applications that have been sitting on her desk for a month.	☐ Finds it hard to incorporate feedback into work or an activity.			
☐ Tries to convince you to extend her curfew but can't give any good reasons why.	■ Tends to be impulsive and engages in risky behaviors.			

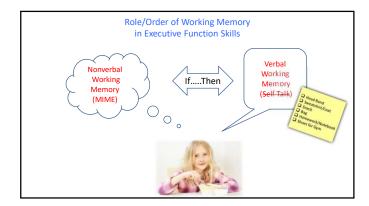


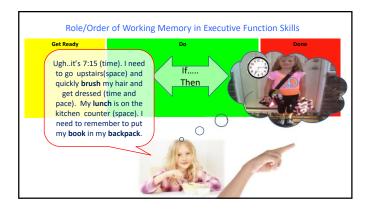












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Describe your Home

Describe your plan to be ready to get out the door after you eat breakfast



Representational Co-thought Gesture

We Gesture to Pre- Experience Mental Spatial Time Travel

- Co thought gestures are really just an outgrowth of how we mentally simulate planning (performing actions to go from the first to the final step)
- · Gestures give life to our mental scratch pads, allowing us to perform actions with our hands before we have to do them in real life or before we have even thought these activities all the way through to put them into words
- · Gesture helps infuse planning with an emotional charge to make the memory for it more enduring

Developing Independent EF Skills



Repeatedly practice: Self-monitoring, self-STOPping, seeing the future, saying the future, feeling the future, and playing with the future so as to effectively "plan and go" toward that future. (Barkley 2012)

Barkley, Russell A. Executive Functions: What They Are, How They Work, and Why They Evolved. New York: Guilford, 2012.

Take a Photo of What "Ready" Looks Like

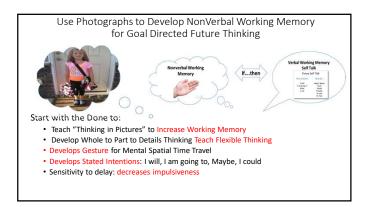




Creating Future Mind MIME skill vs Rote Reading of the Required Objects







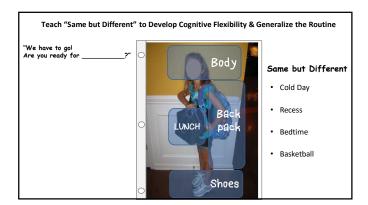


Make an Image - What will I look Like? "Tell me your Plan to Match the Picture!"

Block and Box to Increase Processing Speed Laminate or Put in a Plastic Sleeve Protector to Keep it Dynamic!

Same but Different! Develops Cognitive Flexibility









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Creating Visual Picture Routines: MIME

- A State No.
- · Ask the student what space they go to
- Walk with them to that space
- Stop at the doorway/boundary of that space
- Have the student use self talk to describe the actions they will do and the materials they will use
- The student enters the space and carries out the action: Take a Picture
- Then have the student state what space they will go to next
- Repeat the process until the Visual Schedule is complete
- Try the Pic Stitch App for Photo Collages

MANAGING MATERIALS:

START WITH THE END IN MIND WHAT WILL IT LOOK LIKE?

- Ask students to take the essential items of their back pack out and lay them on the floor
- Then have the student group like items together
- Have families take a photo of the items and print/email you the picture
- Laminate and create 'backpack' tags for students so they can 'match the picture' when it is time to go home!

Create Backpack Tags for Students

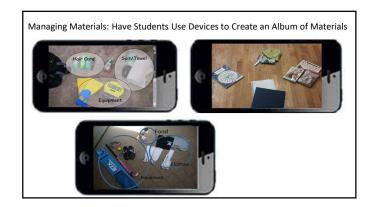


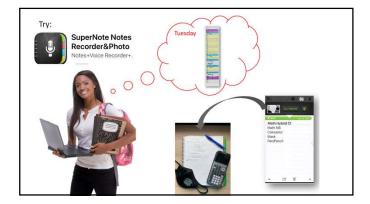






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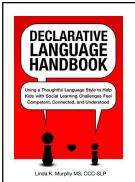
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Give the Student Future Glasses!



Be an Executive Coach: Use declarative language and be sure to include a visual word: Look Like, See, Imagine, Picture, Visualize, Envision



Check out www.declarativelanguage.com

Verbal Mediators: The Language of Executive Function

Edited by: Kristen Jacobsen & Sarah Ward, MS CCC-SLP

Declarative Language

Authored by: Linda Murphy

Why is Declarative Language so important in fostering Executive Function Skills?

- 1. Inner Voice: Self-narratives help students develop an inner voice. After the initial language spark is ignited, most of us then go on to develop our own voice that we use to share our thoughts, recap experiences, talk about what we are doing, and talk about what we are thinking. Most of us also then go on to create our own inner voice. This is an important by-product of our language learning. We use our inner voice to problem solve and plan. We remember what we have learned or noticed in the past, and apply it to the here and now. For example, imagine you are getting ready to go to work and you can't find your keys. Your inner voice may say something like, 'Hmmm... Now when did I last see my keys? Where do I usually put them down? What jacket did I have on yesterday?... Maybe they're in the pocket." Your inner voice helps you think through the problem so you can get started on a plan of action to solve it. Children with Executive Functioning difficulties do not usually develop this inner voice to regulate their thoughts and actions on their own. Just as modeling was important when your child was learning to talk, thoughtful modeling now, in this regard, is equally important. So – talk out loud, think out loud, work through a problem, make predictions, ponder opportunities, consider possibilities, and reflect on past experiences when you are with your child. They will learn from your models, internalize the ideas, and begin to form their own inner voice.
- 2. Perspective Taking: Provide a window into another person's perspective. Some children with executive function challenges have difficulty taking perspective. Using declarative language to share your thoughts and feelings provides a student with a regular window into these communication exchanges in an inviting, nonthreatening way. We are providing them information that is critical in a social interaction that we know they may not pick up on their own. When we present declarative language in this way, we are not asking them to provide an answer that may be right or wrong. Rather, we are clueing them into social information and then allowing them to decide what to do with the information. By regularly using declarative language, we are also slowly building episodic memories and awareness that different people have different thoughts, opinions, perspectives and emotions. For example, you say something to your child but he is facing the other way, appearing not to listen. Rather than say to him "turn around!" or "look at me" (both imperatives) share your feelings and perspective with declarative language: "I notice you looking out the window", "What would help me know you are listening to me" or "I feel like you are not listening to me."
- 3. **Big Picture Thinking:** Students can better see the big picture in order to create multiple solutions to a problem. Declarative language can also help students create a visual image of the gestalt and how they would like to see the outcome of a situation in their "mind's eye". Often times when we focus on having students carry out specific detailed directions, we can all lose sight of the big picture. Because some children with executive

function challenges are strong when it comes to details, but weak when it comes to seeing the big picture, it is important to think about the big picture when we present information. Giving very specific directions or questions that have one right answer promotes that focus on details. For example, if we tell a child to "put the book in the book-box" or "line up at the door for music" we are zooming into the details and creating a situation where there's one and only one right answer. However, if we use language instead to comment on what we see in the big picture: "I see a book on the floor" or "what do you look like if you are ready to go to music?" - we are instead encouraging our children to take a step back, notice the context and situation around them, and subsequently form a plan of action that makes sense to them. We are also leaving open the possibility that there may in fact be more than one solution –i.e., maybe the toy could go on a shelf or in the toy box, maybe the students could put away their work, line up by the door, or collect their music instruments and line up by the door.

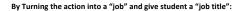
- 4. Problem Solving Skills: Declaratives support students ability to develop problem solving skills rather than merely than just following direction skills. When we direct students as to what to do, ask them to follow directions, or ask them to answer questions with a definitive right/wrong answer, we are honing their receptive language skills. This is not a bad thing, but it may not be what the student with an executive function challenge needs most. In contrast, if we use declarative language to present information about the environment or situation at hand, we are instead inviting her to notice this information and develop a plan of action. We are inviting him or her to have an "aha!" moment where he or she figures out what to do with given information. We are giving students an opportunity to think more independently! Problem solving moments are critical for all students as they learn to see themselves as more independently functioning human beings in the world.
- 5. Read the Room: Help your child read what's going on in his environment. We know that it can be difficult for some kids to tune into the social information that is going on around them. Rather than telling them exactly what to do and when to do it, use declarative language to help them notice what is important! For example, if it is time for a transition, instead of telling your child "go to the table for snack" or "put on your coat," direct his attention toward the changes in the environment: "I notice all the kids are at the table" or "I notice all the kids are putting on their coats." This will help internalize the importance of periodically checking in on one's environment; there are visual clues available all the time, and they are important to pay attention to! We want our kids to learn that information is not always going to come to them they have to become active information gatherers. In contrast, if we are using imperatives all the time with our kids, information is coming to them on a regular basis, and they don't have the same need to look around or read the behaviors of others.



Use your Language to Coach the Student to Independently MIME

Job Talk!

Turn the Verb/Action word into a Noun label (add –er)



- Develops Nonverbal Working Memory (What will I look like?)
- Creates Immediate Structure for the Child
- Accesses Procedural Memory (How am I moving?)
- Limits Emotional Reactions
- Provides a sense of time boundaries with a visualized 'Done' for open ended tasks (Read versus "summarizer")







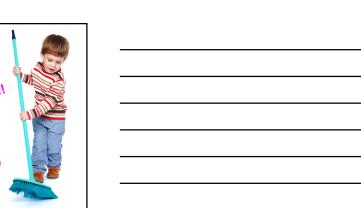
Develop the skill of 'Workability'

Initially make it stimulating, creative and fun so the brain associates work with something positive

Teaching your child to do monotonous work at an early age is the foundation for future "workability"!

- Folding towels/ laundry, Sorting Laundry
- (Make baskets or towel towers or hot towels!)

 Making the bed (Make the bed in the bed and slip out!)
- Hanging up Clothes (Beat the clock!)
- Unpacking Groceries (Use Job Talk! Shelver, Stocker, Bag Squisher) · Setting the Table (Napkin design and art!)
- Make Lunch/Unpack the Lunch Box
- Sweeping



Job Talk:

Politicians wanted to increase voter turnout and turned to psychological research for help. It worked! Researchers framed voting as either a personal identity label (e.g. "be a voter") or as a simple behavior (e.g. "voting"). This change in phrasing to a personal identity label significantly increased interest in action and a substantially larger percentage of individuals voted! Research has shown that people want to feel like they are a part of something and take ownership of something rather than being told what to do.

Children are no different! Motivation to complete a task is increased by invoking one's sense of self. Subtly manipulating the verb form of a behavior ("Brush your teeth please") to feature a noun label (Annie is a toothbrusher!) creates an essential part of one's identity. In other words it creates confidence and a positive sense of self that this is "What I can do!" This subtle change in language can change an occasional behavior of helping around the house ("Please set the table.") into a child who has confidence in their permanent trait or skill (I am

a tablesetter!). When packing for a ski trip, being asked to be a 'packer' is a positive thing and requires the child to imagine in their mind "what does a packer do? What tools will a packer need?". On the other hand just asking a child to "Please pack the car with your warm clothing, boots and poles." Just asks the child to do something, does not invoke their reasoning of what is required and



likely does not fire them into action except perhaps to make excuses for why they can't! Using the declarative noun form (clothes gatherer) creates psychological essentialism and develops in children a positive attitude, a strong and stable sense of self and generalizes to how they perceive themselves and their essential role over time.



Sarah Ward, M.S., CCC/SLP and Kristen Jacobsen M.S., CCC/SLP have translated this research into a simple trick to help our children to take ownership of and participate in various tasks. They advise to turn the child's task into a "job" and add "er" to the action that you are asking the child to do which gives them the "job title" such as "Washer", "Wiper", "Tooth brusher", "Listener", etc. Give it a try, it's amazing!

Declarative Job Talk (Noun Form)	Imperative Verb Form	
Please be a handwasher!	Wash your hands.	
Be a counter wiper!	Wipe the counter off.	
Time to be a toothbrusher!	It is now time to go upstairs and brush	
	your teeth.	
You are getting ready to be a	Please take out your homework and start	
mathematician!	your math.	

Resources:

Bryan, C. J., G. M. Walton, T. Rogers, and C. S. Dweck. "Motivating Voter Turnout by Invoking the Self." *Proceedings of the National Academy of Sciences* 108.31 (2011): 12653-2656.

Gelman, S. A., & Heyman, G. D. (1999). Carrot-eaters and creature-believers: The effects of lexicalization on children's inferences about social categories. Psychological Science, 10, 489-493

Heyman, G. "Talking about Success: Implications for Achievement Motivation." Journal of Applied Developmental Psychology 29.5 (2008): 361-70.







Chore Resources for You!

- 17 Chore Games (that'll Make Your Kids WANT to do Chores) (moneyprodigy.com)
- Turning Chores into Games Black Hills Parent
- Chores App for Kids to Earn Money | BusyKid
- A List of Age-Appropriate Chores for Kids 2 to 18 (thespruce.com)
- Printable age-by-age chore chart (todaysparent.com)

For Parents:

Positive Parenting

to Develop Social Emotional

Regulation Skills

Super

Clue Too

WISE

A Feature Parenting Program for

Neurodicers Formities

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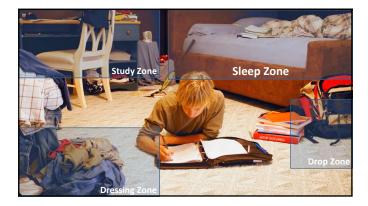
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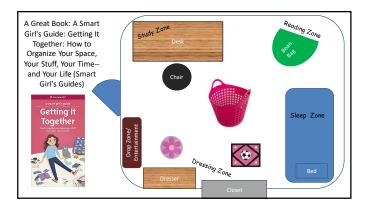
Improving Transitions: Being a Beat Ahead



Don't Start the Planning in the Space Where the Child Will be Executing







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The Wall Clock

- Have Analog Clocks in the Room (Make sure they are not Roman Numeral!)
- Try to not only have digital clocks (alarm clock, cable box, microwave, etc.)



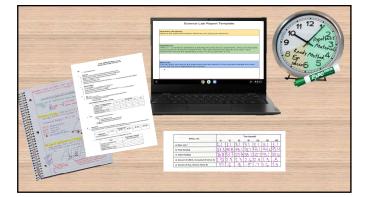


See Time Plan Time

"It is 10:05.You have until 10:30 to work on the Science Lab. You need to write the hypothesis, the list of materials and methodology."

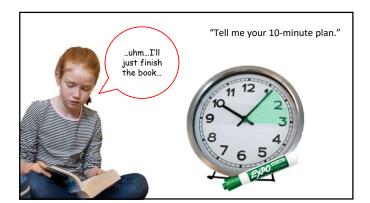
The **WORKING** Clock

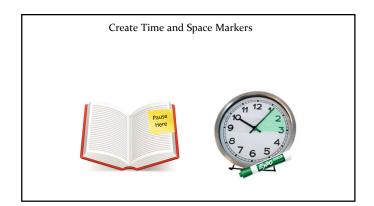




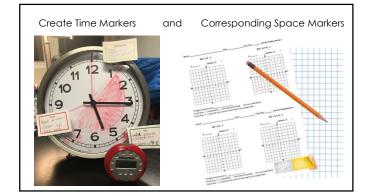
See Time
Plan Time

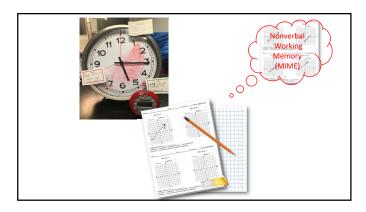




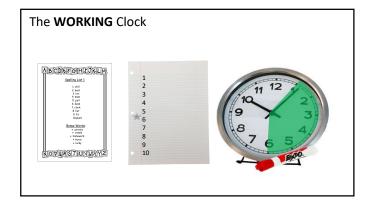




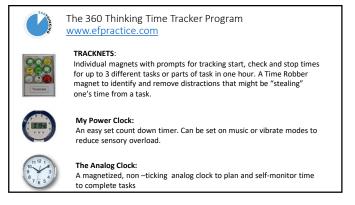




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Use a Timer and Set it to the Half Way Point of the Duration of Time Blocked to Work

At the "Mid Point Check In" the Student Can Self Monitor to See That They are Still on Track and If They are Not, Determine if They Have Any Time Robbers and How to Change their actions to Stay on Track











Students can mark checkpoints on their work that match their midway checkpoints on the clock. For example, this student shades in the 30 minutes on the clock that she plans to spend reading 5 pages in her text book. A post it note is placed on page 3 of the assignment to mark her mid point goal. She places a corresponding post it note at the 15-minute checkpoint on the clock. When the timer sounds at the 15-minute checkpoint, she can compare her mid point plan with her actual performance to self monitor her pace.

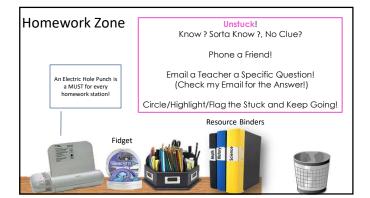
The Mid Point Check In



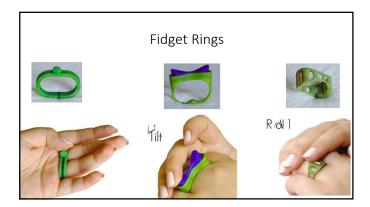
- How am I doing at this Mid Point time Marker?
 - Am I still focused on the goal?
 - Is the work easier or harder thank I thought?
 - Do I need any help? From who or what?
- What is distracting me?
 - Identify
 - Remove
 - Re-Plan
- What are my Time Savers?
- Do I need to change my pace?

What are my Time Robbers?							
O Anxious	Anxious	\circ					
Sleepy Sleepy	Sleepy	0					
Anxious Sleepy Hungry/ Thirsty Antsy	Hungry/Thirsty	0					
Phy	Antsy	\bigcirc					
CO MOVING	I can't find my assignments, papers, links, etc.						
izatic	My papers/binders are messy.	0					
Organization	I'm looking for materials: pens, pencils, ruler, etc.	0					
0	I do not have a plan for how to do this.	0					
	I don't know how to start.	\bigcirc					
Scope	I can't decide what to do. I 'm not clear what the goal is.	\circ					
S N	I am trying to do too much.	\bigcirc					
	I'm trying to make it perfect.	\bigcirc					
	I'm distracted by technology or other objects.	\bigcirc					
s	I'm socializing.	\bigcirc					
Focus	I am going from task to task.	0					
	I forgot what the assignment was asking me to do. I have gone in a different direction.	\circ					
_		\bigcirc					
Other		\bigcirc					
		\bigcirc					

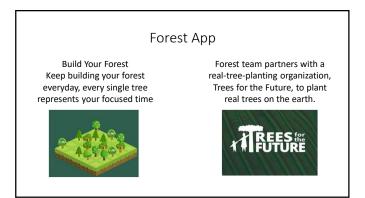


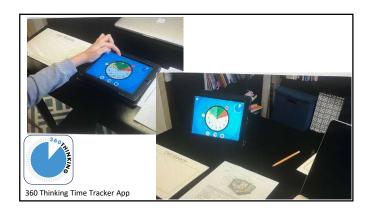


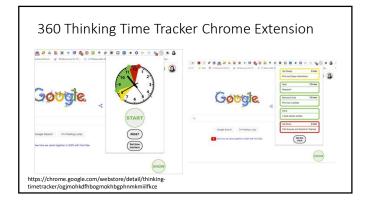






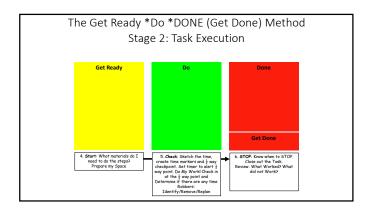


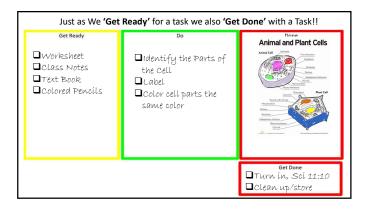






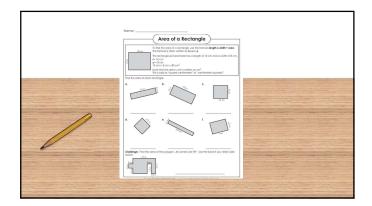


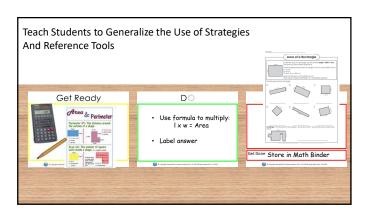




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Get Done Clean Up Turn In/Submit Work Throw out Trash Check Off as Complete in Planner Review/Share what Learned Charge Computer/Headphones/iPad





Get Ready

Review the Plan

Emotions in the End

Add Resources, Strategies and Materials

Time: Mark start, stop, mid way and end points

Gather Materials

Estimate Time

Determine Distractions and Time Savers

You can do this!



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Done

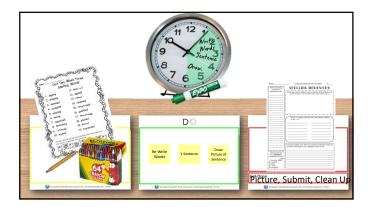
Get Done: Turn in? Store in Binder/Folder? Backpack?

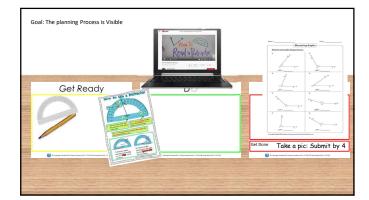
Put Materials Away? Clean up? Other?



1. DONE: What will it Look Like When I am Done? Future Sketch/or Create a Template	Done	Get Done Turn in Share Store Backpack Clean up Other
2. bO : What are the steps? How long will each step take?		
3. GET READY : Materials Resources Create Time Plan Anticipate Obstacles Mindset	Get Ready	

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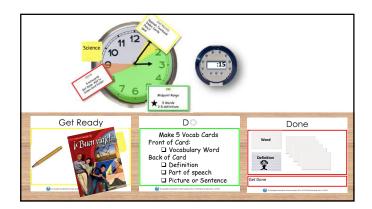
"We tried the GDD with her schoolwork on Saturday. I laminated construction paper to create simple colored mats. We started with a very basic handwriting sheet and she did so well we continued on.

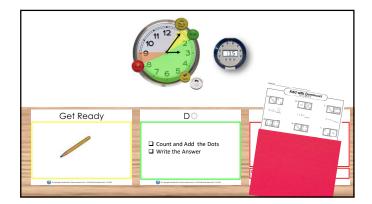
What blew me away was that when we got to this activity, she had no idea what to put in the "DO" section. She really couldn't explain how you would make the vocabulary cards. She wanted to tell me I would write down all the words in the book. I said okay so I write every word you read? She said, no, wait, just the hard words. Just the ones I can't read.

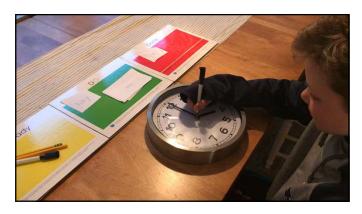
I feel so silly for wasting so many years being her executive function for her."

Assignment: Make flash cards for new vocabulary words in the article

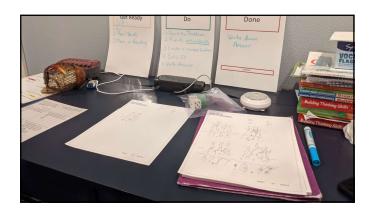


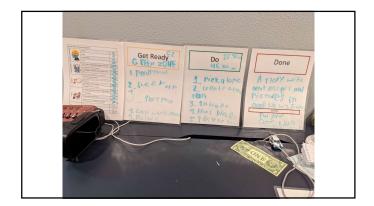


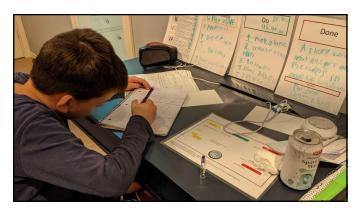




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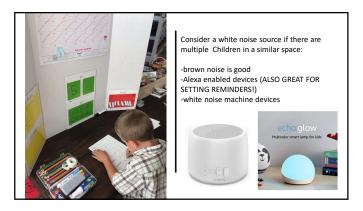




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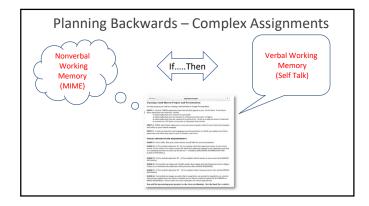


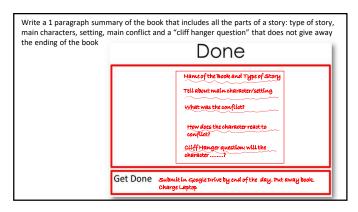




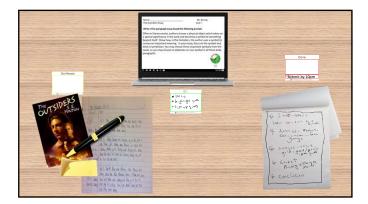
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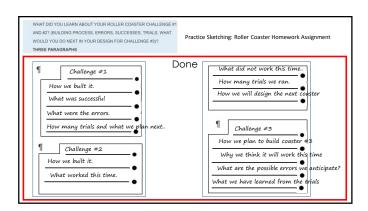




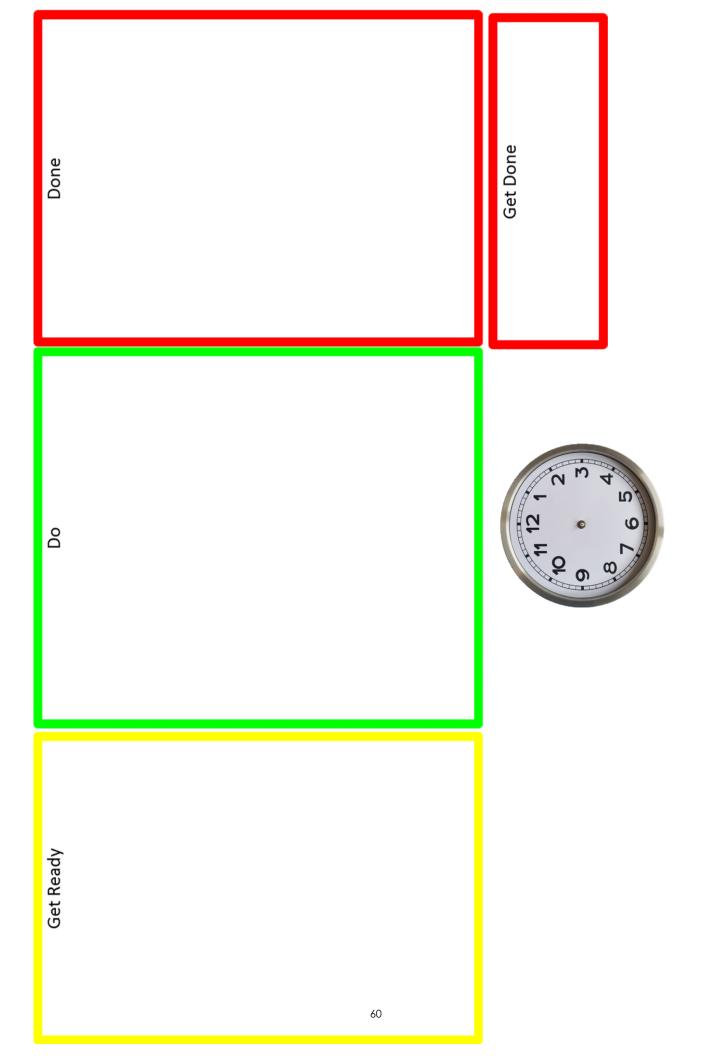






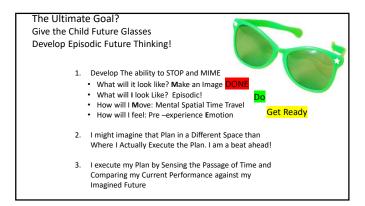


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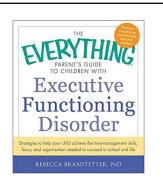
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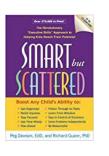


















If you share our ideas please make attribution to Sarah Ward and Kristen Jacobsen. Please reach out to us! We love to hear from you!

Sarah Ward, M.S., CCC/SLP Speech and Language Pathologist sward@efpractice.com **Kristen Jacobsen, M.S., CCC/SLP**Speech and Language Pathologist kjacobsen@efpractice.com

	Plan		Know How I am Doing in School		Break Down My Assignments!	
	Look at School Website?			Check my Grades/ Assignments		Plan for and manage obstacles and distractions
	Make a Visual Plan for WHEN I See myself doing the work			Everything submitted? Anything Missing?		Make and follow my: Get Ready Do Done Plan
0 0000	Science? History? Math?			Self Advocate: Do I need to email any teachers or go to office hours? Check inam I on the right track?		Plan my time!
	· ,			Organize Backpack/Papers: Visualize/MIME when and where I will turn work in	0 0	What distractions do I need to eliminate? What time savers do I need to implement?
	■ When I am done – remember to GET DONE ■ clean up ■ turn in submit pack up ■ Charge Devices			Organize my homework/learning space Sort Prioritize Assign a home Containerize Evaluate		What's stressing me out? What/who would help?

by Sarah Ward, MS, CCC-SLP, and Kristen Jacobsen, MS, CCC-SLP

FTER RECESS, as part of the daily routine, the class reconvenes on the rug. Jackson runs from the back of the room where he has been playing with the class hamster to his cubby and slips off his jacket. It drops to the floor. He kicks off one boot. The teacher calls stragglers to join the others on the rug, so he hops to the circle wearing one boot and plops down. The teacher shares the agenda for the afternoon, which includes reviewing the science homework. Looking alarmed, Jackson pops up, and races back to his cubby while kicking off his other boot.

He pulls out his backpack, removes a homework folder, and grabs his assignment. Leaving the backpack open and boots scattered, he races to the homework bin. Realizing his name is not on the assignment, he zooms back to his desk to grab a pencil and sits back down on the rug with the rest of the class.

As the teacher gives instructions for the next activity, Jackson slips his homework underneath him and sits on it. The class is dismissed to their desks, and Jackson, talking excitedly to the boy next to him, stands up and follows the boy to his desk. His nameless homework is left on the floor. When he gets to his desk, his morning work folder and silent reading book are on the floor with assorted bits of paper. As the class starts the next activity, Jackson does not have the materials

he needs. Again, he needs to walk about the class to get ready.

Anne has a music lesson Saturday morning at 9:00. Her mom wakes her at 7:30; Anne rolls over and groans, "Ten more minutes." Mom returns ten minutes later and tries again to wake Anne. After two more rounds of "Ten more minutes," Anne finally gets out of bed and heads for the shower. She showers for twenty minutes. Mom knocks on the door to announce the time. She encourages Anne to hustle so they can leave the house in thirty minutes. Anne gets out of the shower, puts on a robe, plops herself on the living room couch, flips open her laptop, and checks her social

media sites. Mom reminds her to get ready for music. Ten minutes later, Anne saunters into her room and stares at a land mine of clothes trying to decide what to wear. She sits on her bed and starts to remove her nail polish.

Mom hollers a reminder, "Get dressed!" Finally, ten minutes later, Mom exclaims anxiously, "We have to go...!" Anne responds to this seemingly sudden pressure and shouts, "I'm coming!" She heads into

the bathroom in her bathrobe to blow dry her hair. Patience waning, Mom asks about her instrument and sheet music; Anne directs her to the basement. Finally finished with her hair, Anne heads to the kitchen for something to eat.

Exasperated, Mom, who is standing at the door holding Anne's instrument, music sheet, and breakfast bar, exclaims, "We need to go now. We are late!" Anne yells back in frustration, "I told you to wake me up earlier!"

As adults, we joke about "senior moments." That moment when you have imagined an item you are going to retrieve and then when you finally

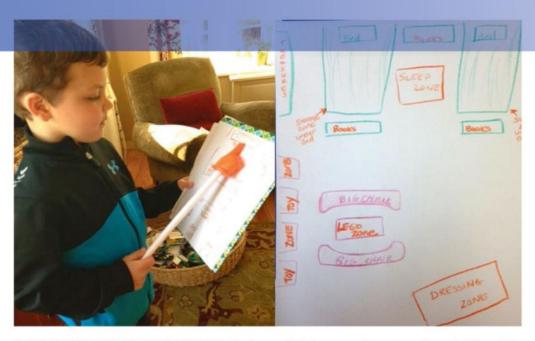
that room to get it you draw a blank. "What did I come in here for?" Ack. A senior moment.

What do a student zigzagging about the classroom, a slow-paced teen, and a senior moment all have in common? Challenging executive function skills.

Weak executive function skills

Individuals with strong executive function skills stay a beat ahead. In contrast, teachers and parents describe individuals with weak





ORGANIZATION & FOLLOWING DIRECTIONS: A basic map of a bedroom or a classroom can be used with a pointer to plan out directions and rehearse routines. This strategy can improve the use of mental imagery and self-talk, which are two skills that support a child's ability to carry out tasks and routines.

now a beat behind. Likewise, a senior moment is simply the loss of this pre-imagined intention.

Developing strong executive function skills

So, what can we do to develop a child's capacity to be a beat ahead and successfully carry out intentions in the future? According to Russell Barkley, in order to develop strong executive function skills, individuals "need to repeatedly practice: self-monitoring, self-stopping, seeing the future, saying the future, feeling the future, and playing with the future so as to effectively 'plan and go' toward that future."

Our natural inclination might be to provide checklists. While this strategy can sometimes work, it is limited. Checklists made by adults are not that helpful in creating mental imagery for children. For example, as adults, we might make a list of items to buy at the market. While making this list, we create, if only for a brief moment, a mental image of the supermarket, our dinner table, or shelves in our cabinets. These images help us navigate the market and remember items even if the list is left at home. When we hand children a checklist we've made, they have not used imagery to create the list and may find it hard to create imagery after the fact.

A better technique, when giving directions, is to use words that create mental imagery. For example, rather than asking a child, "What do you have for homework tonight?" pose a question such as: "When you walk into class tomorrow, what do you see yourself handing to your science teacher Mr. Jenson?" Instead of directing your child to get ready for soccer, try asking, "If you were standing at the door ready to go to soccer what would you look like? What does 'ready' look like?" To improve the effectiveness of your instruction to go upstairs and get dressed, try saying, "What drawer do you see opening to find your sport clothes?"

Visuals are also helpful in teaching kids to get ready and organize themselves. It's often a struggle to get children out the door in the morning. Multiple prompts and checklists might get your child out the door, but the process is likely to be difficult. Instead, try snapping a quick photo of your child when he is ready for school and standing by the door with his coat, clothing, shoes, backpack, and lunch. The next morning, show your child the photo, and simply say, "This is what 'ready' looks like." Ask him to imagine a plan that enables him to "match the picture." Once children remember the images in these photos, they can use their mental imagery and the photos no longer need to be shown.

In the classroom, cue students to imagine their actions before they transition. For example, when students are transitioning from recess, as they line up, say: "Imagine yourself at your cubby. What do you look like? What do you see yourself doing?" For younger students, ask them to describe how they will prepare for an activity. They can use a pointer to point to the space they will go to and pre-imagine themselves in



What does 'ready to start the lesson' look like? You need 5 minutes before your lesson actually starts at 4:30 to prepare so that you are ready when the lesson starts. This 5 minutes gives you time to take your instrument out of the case, open the sheet music to the practice warm-up page and to be seated in front of the music stand.



Working backwards to shade in the time needed, what does the travel time look like? 5 minutes to walk through the parking lot, 15 minutes to drive to the music lesson.



Shading in 5 minutes to gather your instrument and sheet music and 10 minutes to dress and brush your hair and teeth, you can see that you need to start getting ready for your 4:30 music lesson at 3:50.

that space carrying out the expected actions, "I am going to go to the back of the room and get a worksheet, then I am going to walk to the counter under the windows and get my text book, then I am going to sit at my desk and take out my pencil."

Take this technique a step further. Ask the student to draw a blueprint of the classroom or their house. Tape this blueprint to a clipboard, so the child can 'tap out their plan' before a task. Use a pencil or pointer to tap on the blueprint while encouraging them to pre-imagine and verbalize their plan; this method will foster an important skill—self-talk. For example: "I am going to walk into the bathroom, brush my teeth, then go across the hall to my bedroom. Next, I'll go to my closet, get my shoes, then walk downstairs to the front hall to get my backpack."

Use an analog clock

Children may still have difficulties using an appropriate pace even if they have a mental image of the directions. If their pace is slow, then they are vulnerable to distractions. What helps children to imagine carrying out a plan within a particular time frame? An analog clock.

As adults, we often strategize times before verbalizing the plan to children. We say, "You need to start getting ready at 3:45." However, this direction is given after we have thought, "Dance starts at 4:30, so we need to leave the house at 4:00." Try asking children to work backwards from an end time. Many children benefit from seeing how time fills up on an analog clock. A dry erase marker can be used to shade "slices" of time and write actions when planning backwards on a glass analog clock. See the example of backwards planning for estimating the time to prepare and travel to a music lesson (see graphic above).

Students can also use the clock to visually plan their time for homework or in-class assignments.

Another advantage of drawing on the clock is building self-awareness. Students can see visual markers of the time that has passed, and then determine if they have used time effectively or had any "time robbers" such as daydreaming or getting distracted by the television or Internet. To stay a beat ahead, students must monitor how closely their outcomes match the future plan they had imagined.

Ask students to plan checkpoints when they can stop and determine if they are on track with their plan. Students set a midpoint timer to stop and check how well they are working towards completing an assignment. The purpose of the timer is to improve self-monitoring and an awareness of how time is used, but not how quickly they can complete an assignment. Students who set timers for the end of a task frequently experience more stress, whereas a timer set for check-ins midway through a task provides opportunities for problem solving. Overall, when students are given guidance to plan and self-monitor while using mental imagery, they often experience independence and a better sense of self-control. Try it!

Sarah Ward, MS, CCC-SLP, and Kristen Jacobsen, MS, CCC-SLP, are the codirectors of Cognitive Connections: Executive Function Practice, LLP, in Concord, Massachusetts. Ms. Ward has over fifteen years of experience in diagnostic evaluations, treatment and case management of children, adolescents and adults with a wide range of developmental and acquired brain-based learning difficulties and behavioral problems. Her particular interest is in the assessment and treatment of executive function deficits. Ms. Jacobsen, an ASHA certified speech-language pathologist, has worked in public education, private schools and hospital settings and has provided teacher training seminars and school consultations nationally. She has strong interests in cognition, language and mindfulness.