

New Cutting Edge Strategies to Improve Executive Function Skills

Day 1 - September 25, 2019

Surrey Schools Resource & Education Centre (REC)
Surrey, BC

Presented by

Sarah Ward M.S., CCC/SLP

Co-Director, Cognitive Connections LLP, Boston

Co-Sponsored by



Event Schedule

8:00 - 9:00	Registration
9:00 - 10:20	Session 1
10:20 - 10:40	Morning Break
10:40 - 12:00	Session 2
12:00 - 12:40	Lunch Break
12:40 - 2:00	Session 3
2:00 - 2:20	Afternoon Break
2:20 - 3:30	Session 4

Tips for Improving the Conference Experience

- Please turn off your cell phones or put them on vibrate.
- In respect for the speakers and fellow participants, please do not whisper.
- This workshop is being web streamed to an online audience. Please ask questions using a microphone so that all can hear.
- Personal recording of any kind is strictly forbidden.
- Please secure your belongings! ACT cannot take responsibility for theft.
- Many of your fellow participants require a scent-free environment. Please be considerate.
- For your comfort, dress in layers. It may be a warm day but bring a sweater just in case!



Acknowledgements

Those who have attended ACT – Autism Community Training's events over the years know that we depend on community collaboration and support to sustain our work. Our volunteers and funders make it possible for us to provide cost-effective training in-person, via web streaming and online video.

ACT's volunteers range from parents and community groups, who advise us on venues and speakers, to ACT's membership, including our Board of Directors, who provide a range of expertise, as well as those who volunteer at our events. Their contributions are all essential to ACT's work.

This event has been made possible thanks to the support of the Surrey School District and to the Provincial Outreach Program for Autism and Related Disorders. We are very grateful for this collaboration which has allowed us to web stream to 21 school districts across BC from Surrey School District's excellent facilities. Our thanks to ODIN Books for continuing to support our bursary program. ACT provided \$23,000 in bursary funding in 2018 in the form of reduced registration fees.

Special thanks to Sarah Ward for returning to British Columbia to present for ACT. Ms. Ward's two-day presentations provide practical resources and techniques that enable parents and teachers to tackle the challenges of executive function for those with autism and related conditions.

Free Resources from ACT

Autism Videos @ ACT (AVA) – Over 50 quality online videos available free – without a log-in, thanks to our sponsors. www.actcommunity.ca/videos

ACT's Autism Information Database (the AID) – Like Google for Autism but better! Keyword search nearly 1,500 curated AID records for evidence-informed, practical information resources useful to families and community professionals. www.actcommunity.ca/aid

ACT's BC Community Resources Database – Search by your postal code for professionals and service providers throughout BC. www.actcommunity.ca/aid-search/community

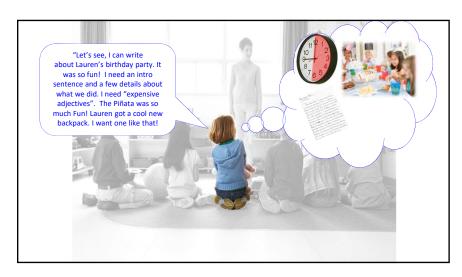
ACT's Autism Manual for B.C – 13 chapters! www.actcommunity.ca/autism-manual-for-bc

ACT's Monthly News Round-Up & Event Alerts - Sign-up to keep in touch with developments affecting the special needs community <u>www.actcommunity.ca/updates</u>

ACT's Facebook - ACT carefully sources interesting, insightful stories to inform our 6,000 plus followers. www.facebook.com/autismcommunitytraining

	Executiv
	Executive Function Vocabulary
	Vocabulary

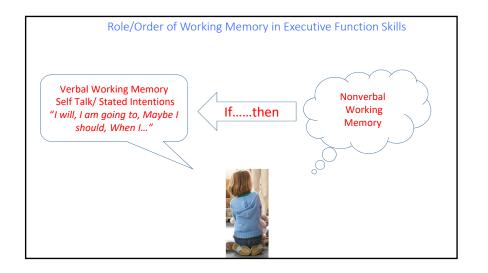


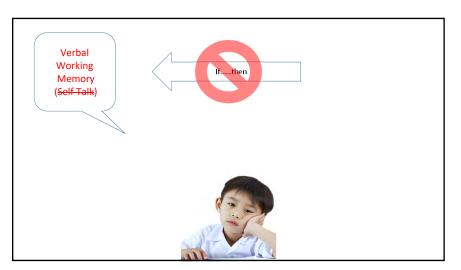


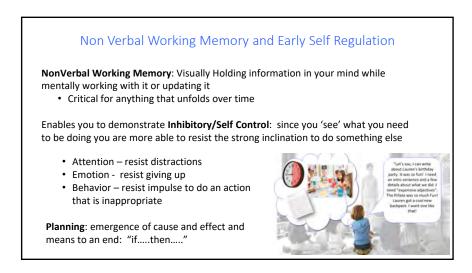


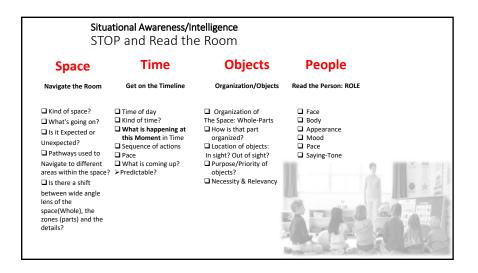


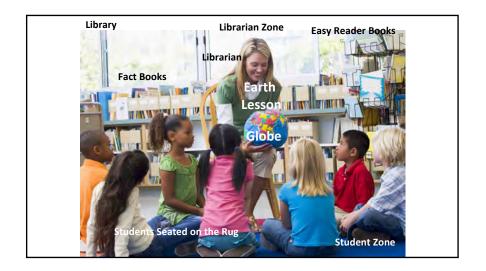
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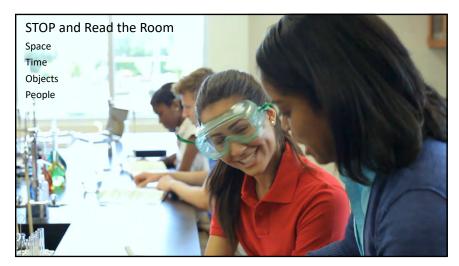




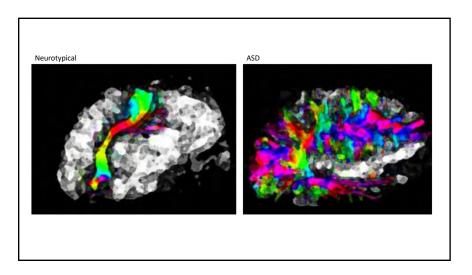










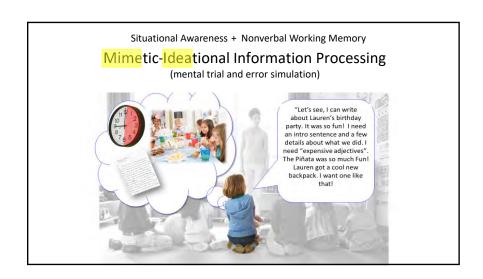


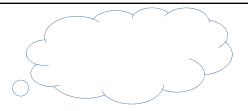
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Situational Intelligence

- An early aspect of executive function skills is situational intelligence (reading the room) -
- This is recognizing zones in the room space, time, objects, people in a self directed way.
- It is self-directed, because the student is answering
 - What do I need to do?
 - · What is expected of me in this setting?
- It involves self-directed observation
 - What's happening now?
- What matters now? • It is "IF ... then" thinking.
 - if this is what it looks like, then what do I need to do?









Mimetic Ideational Information Processing

- Being a "Mind Mime"- Mime the Idea in Your Head
- Mental Pre-Simulation of How the Future Will Play Out
- It is a Mental Dress Rehearsal..
- A Mental Trial and Error without the Risk of Error
- You can try it out and Pre- Experience the Emotion of a Situation
- Without Risk You can Run Plan A and Plan B and Pre-Experience How Those Feel

Episodic/Autobiographical Memory

Memory for autobiographical events (Contextual) you can explicitly re-experience:

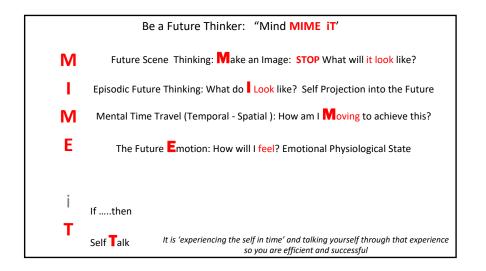
- Places (Spaces)
- Times

- ObjectsPeopleEmotions

- Features of Past Episodic Memory
 Knowing vs Remembering
 Knowing is more factual (semantic)
 i.e. Knowing what a wedding is
 Remembering is a feeling that is located in the past (episodic)
 - i.e. Re-experiencing the wedding you attended last summer

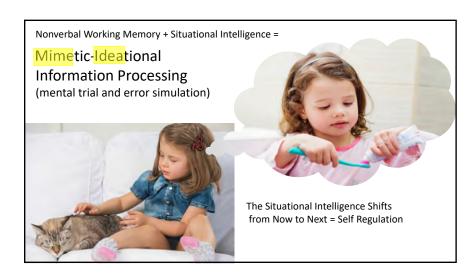
 - Autonoetic Consciousness
 Sense of subjective (emotional) self in



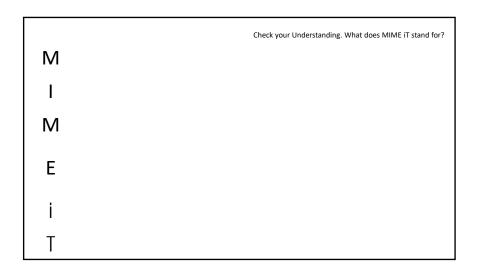






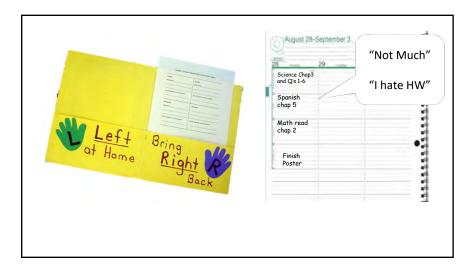


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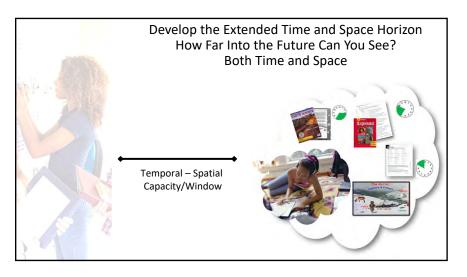


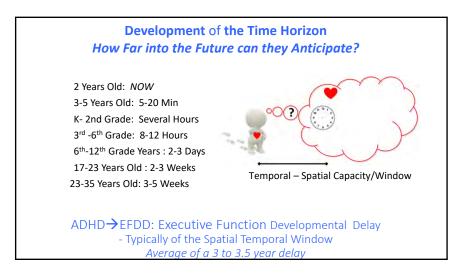




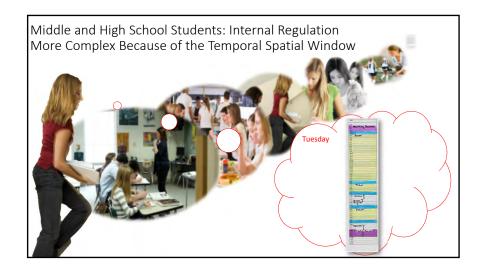
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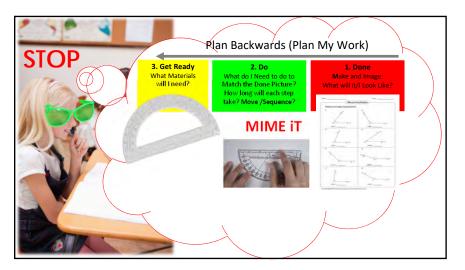


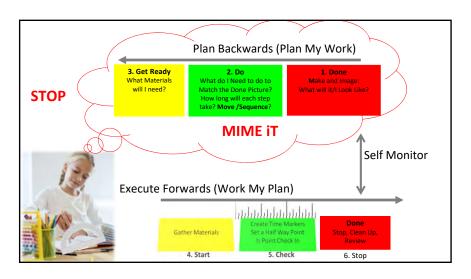


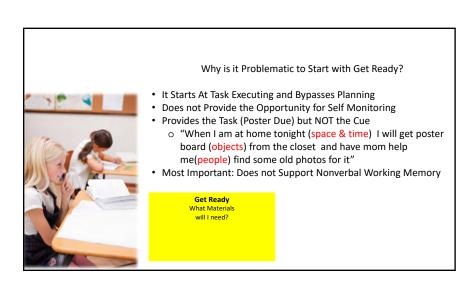




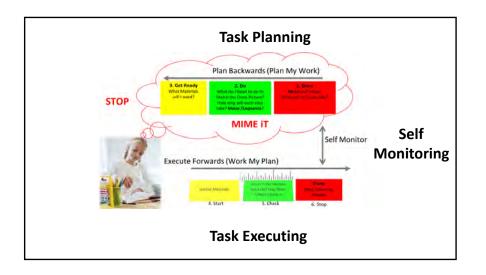




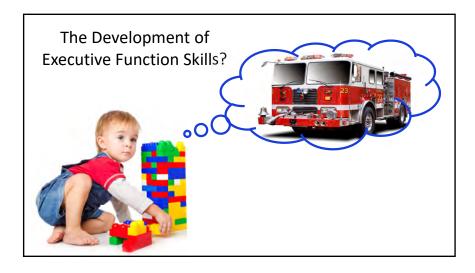




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	Future Image	
Task Planning	Task Executing	Self Monitoring
□Plan	☐Initiate	□ Self-monitor
Sequence	□Inhibit	☐ Problem Solve
□Prioritize	□Pace	□ Emotional control
□Organize	□ Complete	□ Shift



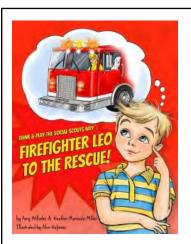


Interactive vs Character Toys



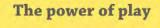
- · Play was Purely Functional
 - Push the buttons
 - · Switch on and Off
 - · No attention to accessories
 - Shoved the food down the bird's throat: no pretend feeding
- No sense the duck was hungry and "I am feeding it"
- Never took the role of the duck
 - · No statement on behalf of the duck
 - Only talked about the toy's actions (It's off)
- No sign of imagination, imaginary situations
- No Play storylines unless facilitated by an adult

Smimova, E. O. (2011). Character toys as psychological tools. International Journal of Early Years Education, 19, 35-43.



Think & Play the Social Scouts Way™: Firefighter Leo to the Rescue!

https://socialscoutsla.com





Make Play R.O.C.K.™ Booklet Series

If you have a young child with autism, you may have noticed that he has difficulty learning to play. His play may be less flexible or creative than that of other children, and it may rarely involve other people.

The Make Play R.O.C.K.™ booklet series gives you practical, research-based strategies for expanding your child's play skills during everyday play activities. You'll learn powerful ways to get involved in your child's play and help him learn while having fun together. After all, fun is what play is all about!

70 Play Activities for Better
Thinking, Self Regulation,
Learning and Behavior
by Lynne Kenney and Rebecca Comizio

For Better Thinking,
Self-Regulation,
Learning & Behavior

Executive Functioning Skills Check-List



- 3-4 Year Olds
- \bigstar Complete simple errands; "Get your shoes from the bedroom".
- 🔭 Clean and put items away with minimal assistance
- igstar Perform simple chores and self-care tasks with reminders and physical assistance if needed; clear dishes from table, brush teeth, get dressed.
- \bigstar 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.
- igstar Initiate and perform simple chores and self-help tasks, but may need reminders; making their bed, make a bowl of cereal.
- Rring papers to and from school.

12

- **X**Complete homework assignments (20-minutes maximum).
- *Decide how to spend their money.
- igstar 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

Ages 8-11

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

Executive Functioning Skills Check-List



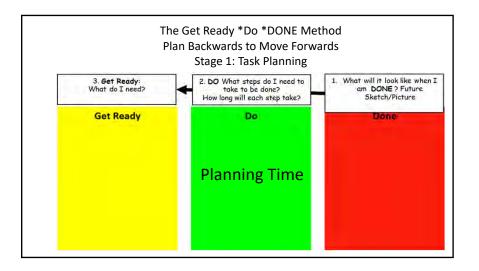
- $m Ages~8 ext{-}11$ (continued)
- 🔭 Plan simple school projects such as book reports; select book, read book, write report.
- igstar Remember changes in daily schedule including different after school activities
- 🔭 Save money for desired objects and plan how to earn money.
- $m{\chi}$ Inhibit/self-regulate behaviors; maintain composure when teacher is out of the classroom; inhibit temper tantrums and bad manners.
- Ages 12-14
- $m{\chi}$ 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
- Able to safely baby-sit younger siblings
- Appropriately use a system for organizing school work
- $m{\chi}$ Independently follow complex school schedule involving multiple transitions with teachers and classrooms.
- imes Plan and carry out long-term projects, including tasks to be accomplished and a reasonable timeline to follow;
- igstar Plan time effectively, including after school activities, homework, family responsibilities
- $m{\chi}$ Inhibit 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.
- igstar Establish and refine a long-term goal and make plans for meeting that goal; collegiate or other vocational goals
- igstar 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).
- utive functioning specialist to further identify executive functioning needs and create strategies to address those needs. *If your child demonstrates difficulty in 2 or more of the above areas for their age, it is recommended that you contact an exec-

North Shore Pediatric Therapy Phone: (877) 486-4140 | Email: info@NSPT4kids.com









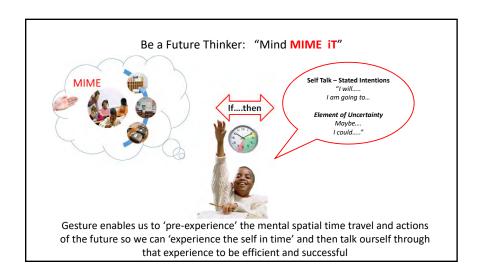


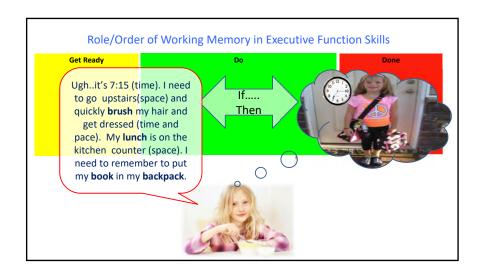


Representational Co-thought Gesture

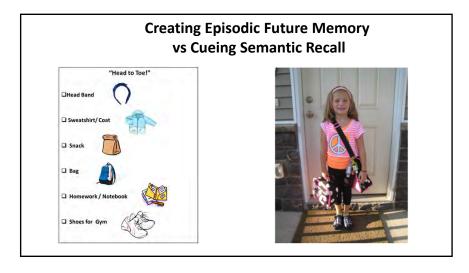
We Gesture to Pre- Experience Mental Spatial Time Travel

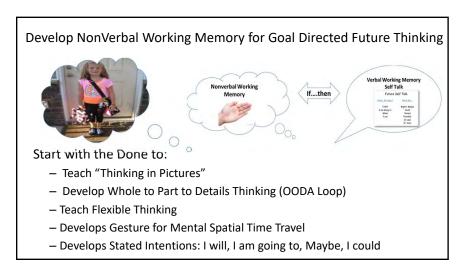
- Co thought gestures are really just an outgrowth of how we mentally simulate planning (performing actions to go from the first to the final step)
- Gestures give life to our mental scratch pads, allowing us to perform actions with our hands before we have to do them in real life or before we have even 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

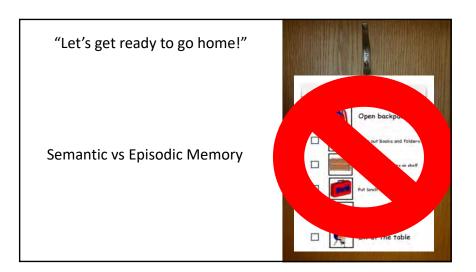


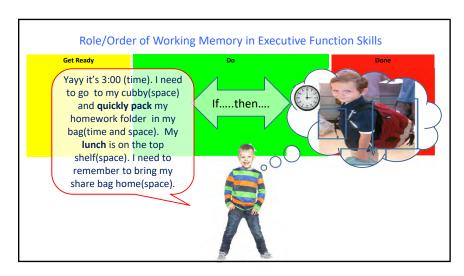




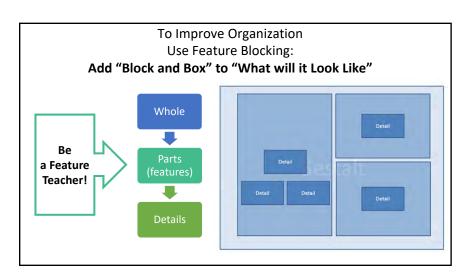












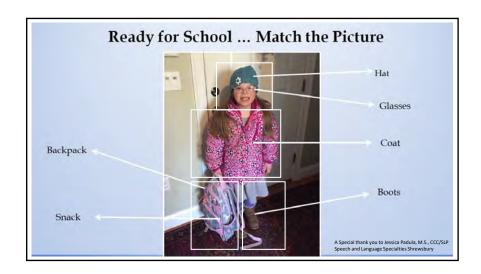
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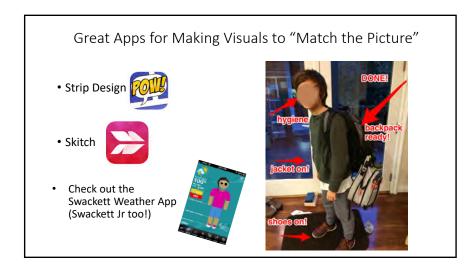
Make an Image - What will I look Like? "Tell me your Plan to Match the Picture!"

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

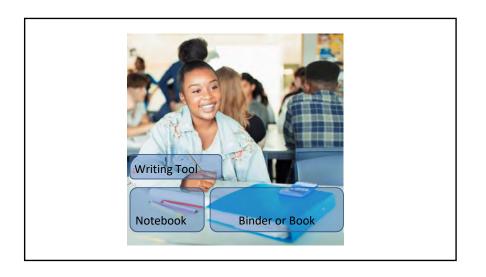
Same but Different!
Develops Cognitive Flexibility

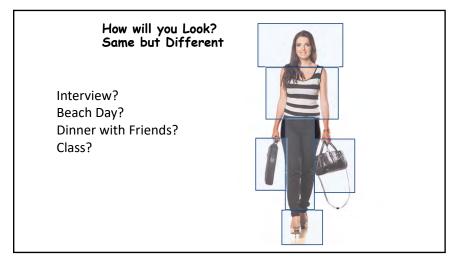


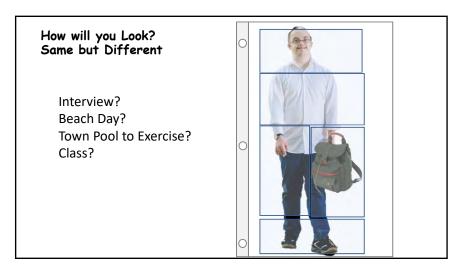


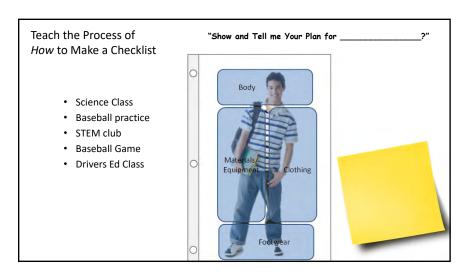


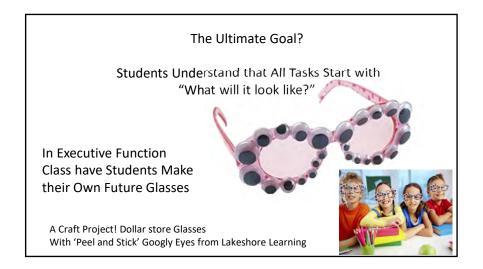


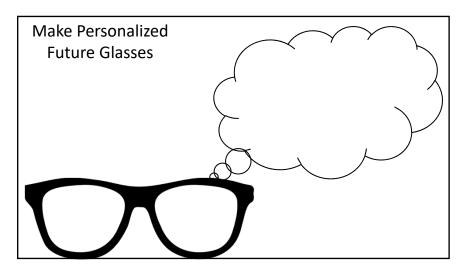


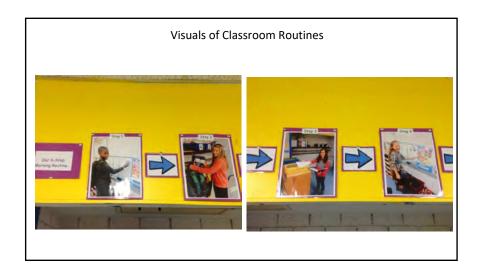






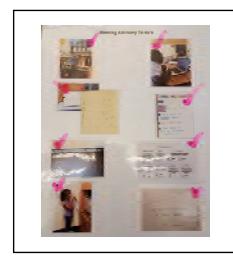


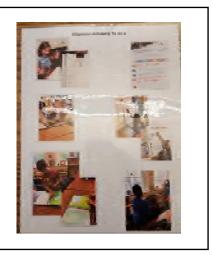


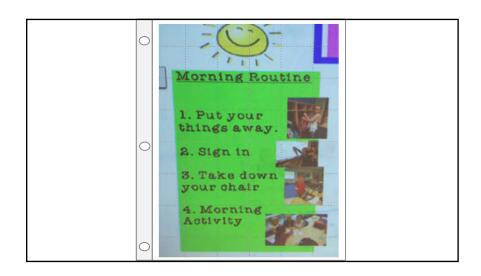


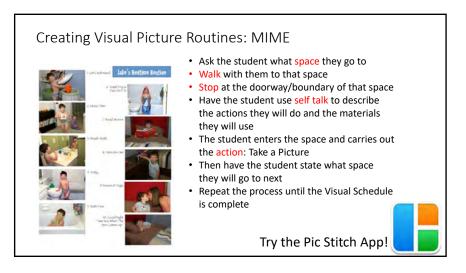


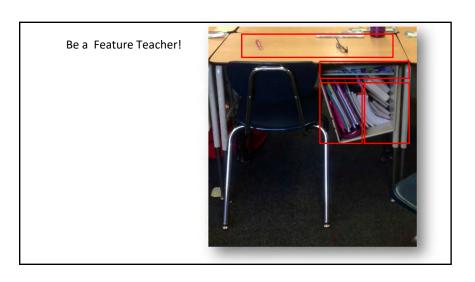
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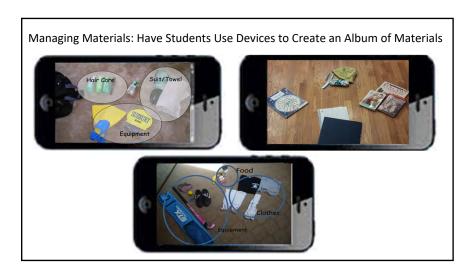








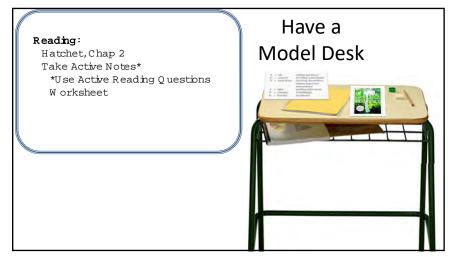


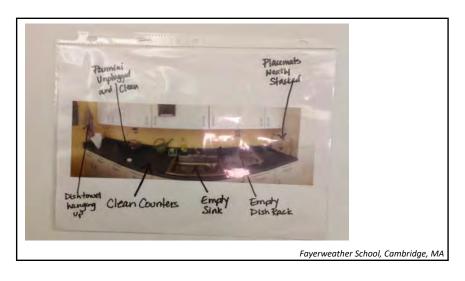














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Job Talk:

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

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

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



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



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:

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

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

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

What is one skill/task that a student you work with is really struggling with?

If they were doing the task what would they/it look like?

How can you turn that into a 'Future Picture' to support the student's executive function skills?

How would you incorporate this 'Future Picture' into your classroom?

Improving Transitions and Task Initiation: Being a Beat Ahead

Math

Remember – 90% of the time Task Planning Happens in a Different Space from where you Execute the Plan!

Less and different motor activation in individuals with ASD
Difficulty shifting motor activity: standing to sitting, From reading to writing
Hard to shift and get materials out
Motor interventions – Students require additional structure and time

Motor

TD

Autism

Mostofsky et al 2009

Found that children with autism have difficulty visually gauging the position of their bodies when learning a motor task. Instead of using this visual feedback to guide their movements, they rely more on proprioception, the ability to sense the body's position in space.

Motor

The Company of their bodies when learning a motor task. Instead of using this visual feedback to guide their movements, they rely more on proprioception, the ability to sense the body's position in space.

Motor

Motor

Mostofsky et al 2009

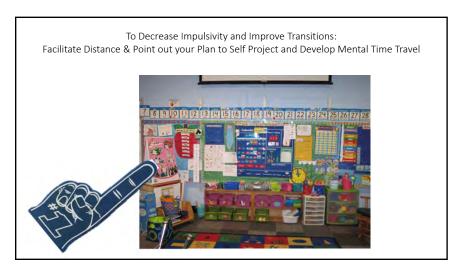
Improving Transitions: Being a Beat Ahead



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





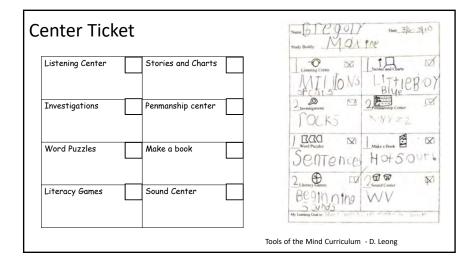


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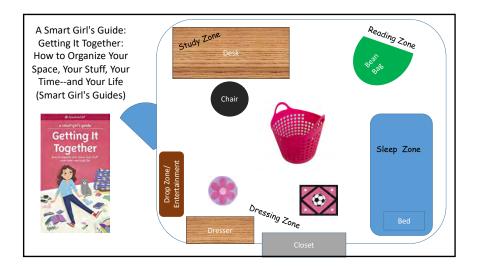


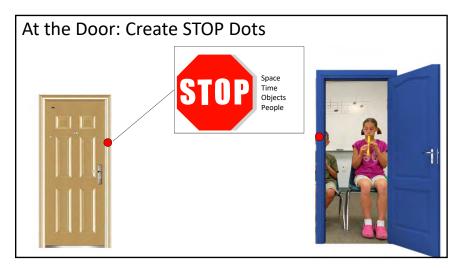
Pre-Imagine and MIME the Future Task: An Executive Function Approach for the Accommodation of Preview

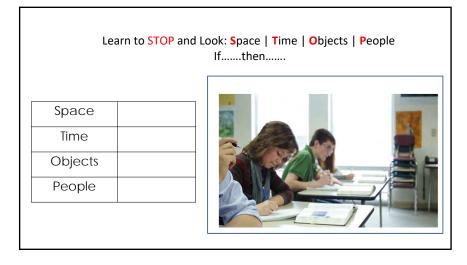


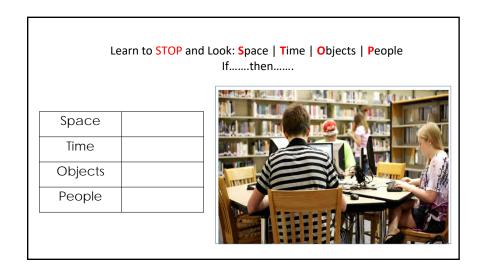




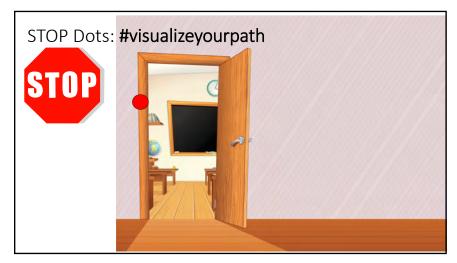
















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MIME: Right in Front of Me



MIME: At the Door



MIME: Down the Hall



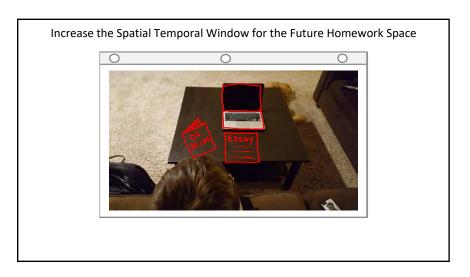
MIME: Downstairs - Task Planning Happens in a Different Space than Where you Execute the Plan









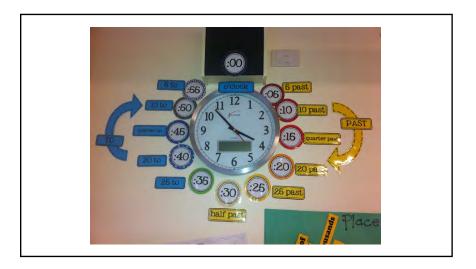


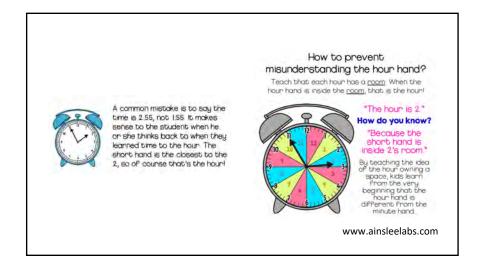
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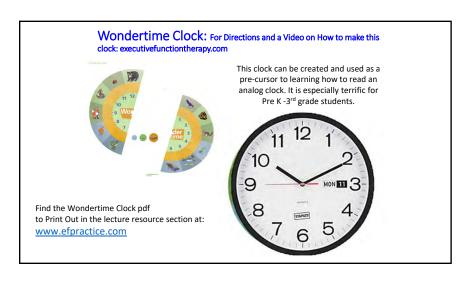
The Wall Clock

- Have Analog Clocks in the Room – Make sure they are not Roman Numeral!
- Ideally located in the front of the classroom where the child can compare their work to the time of the day.



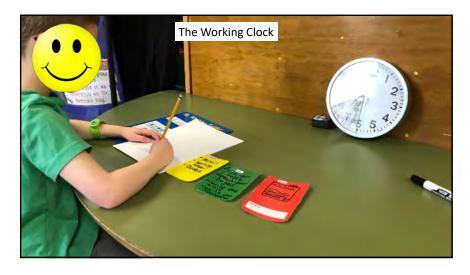










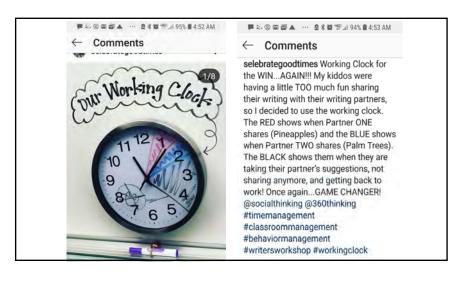


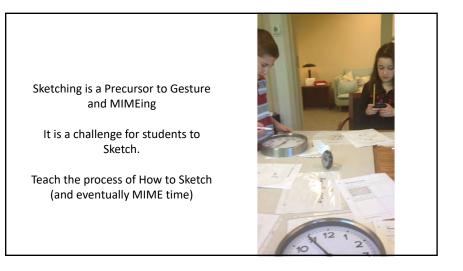


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The 360 Thinking Time Tracker Program www.efpractice.com or Amazon



TRACKNETS:

Individual magnets with prompts for tracking start, check and stop times for up to 3 different tasks or parts of task in one hour. A Time Robber magnet to identify and remove distractions that might be "stealing" one's time from a task.



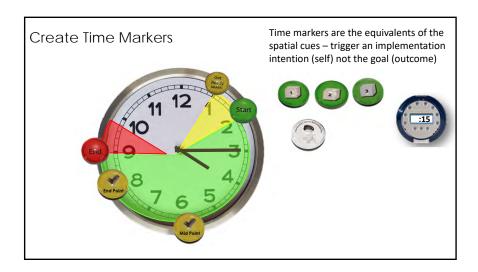
My Power Clock:

An easy set count down timer. Can be set on music or vibrate modes to reduce sensory overload.



The Analog Clock:

A magnetized, non –ticking analog clock to plan and self-monitor time to complete tasks



Planning Time: Create Time Markers

Shade, Mark, Check

Draw How Much Time The Student Has

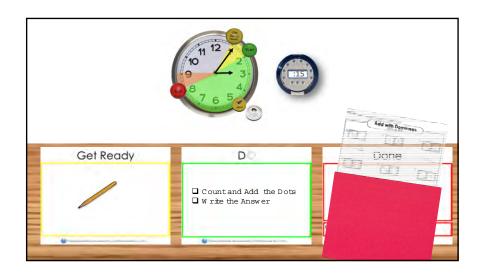
Identify/Sketch The "Future Picture Image" [Fixed vs Flexible Time]

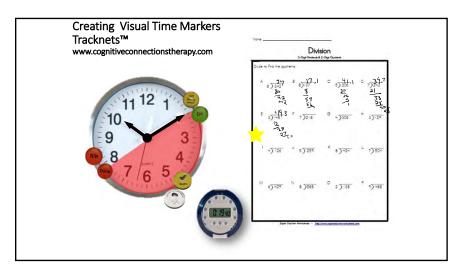
Factor in time to 'Get Ready' and 'Close out' task

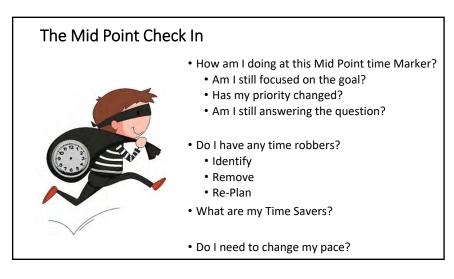
Create Time Markers:

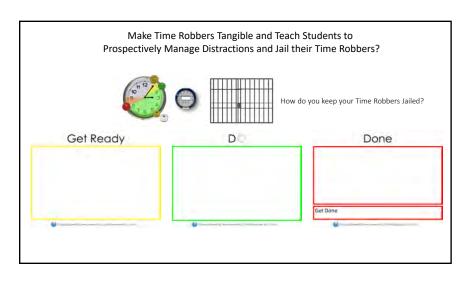
- Start Time
- Stop Time
- Mid Point

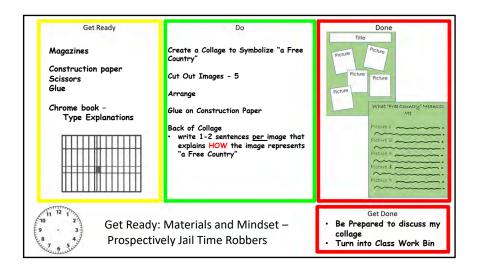


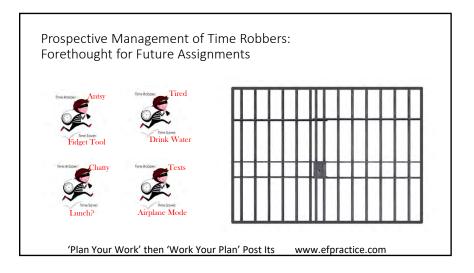




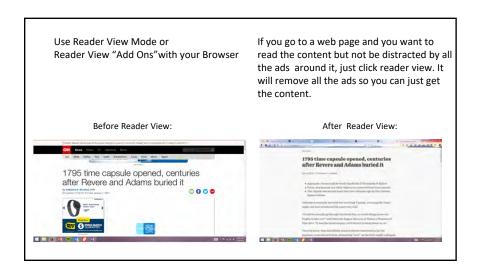




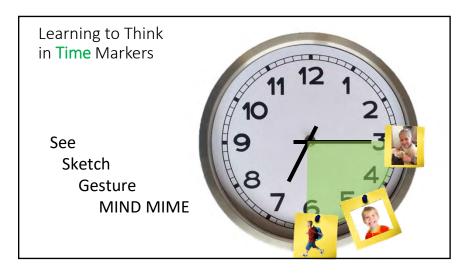




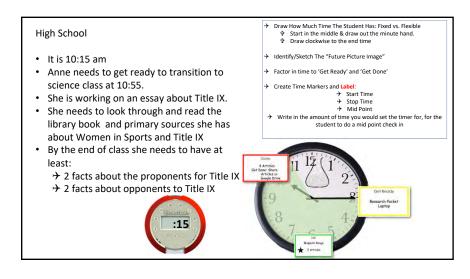


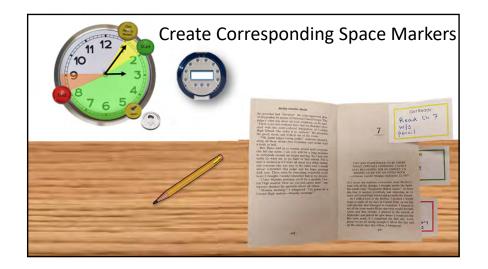




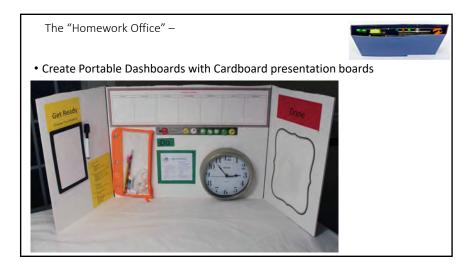






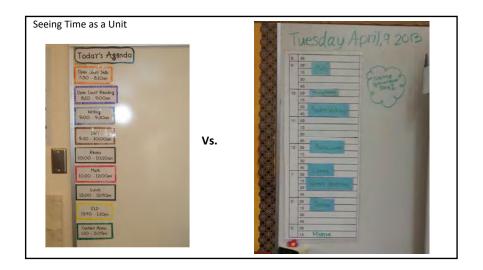


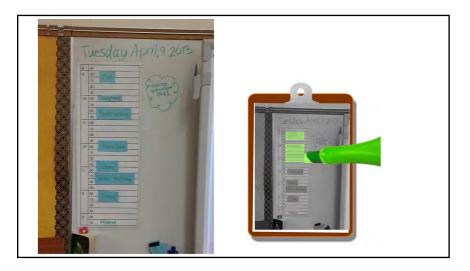


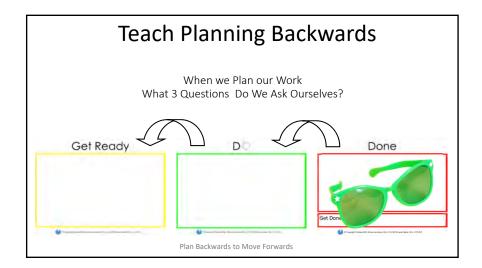


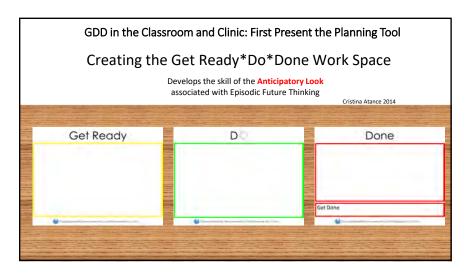


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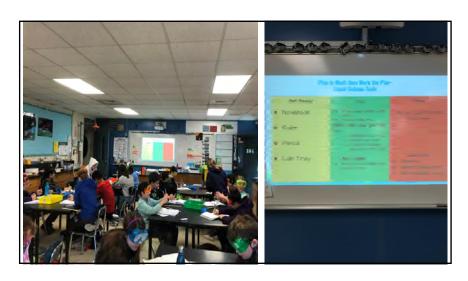


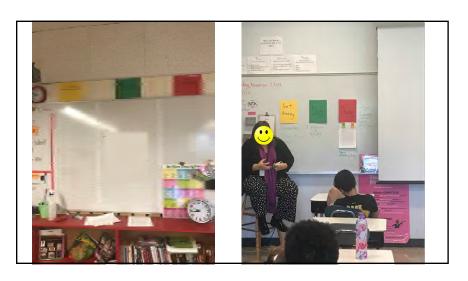


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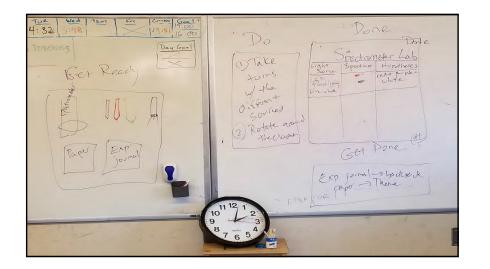


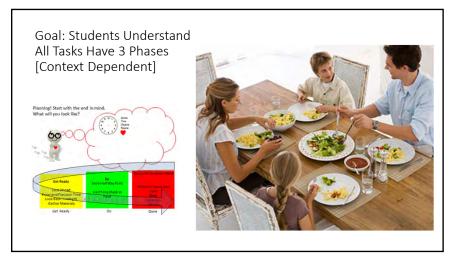


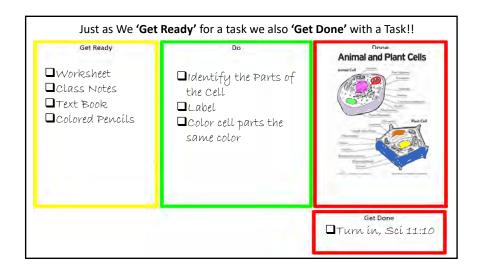


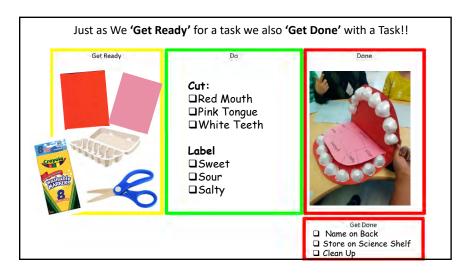


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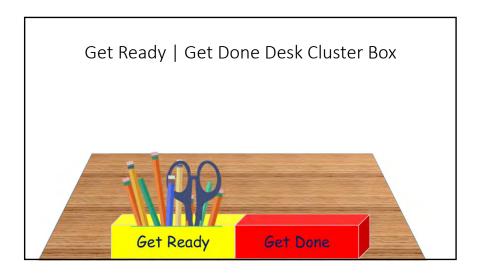




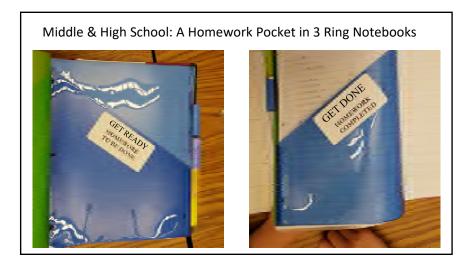


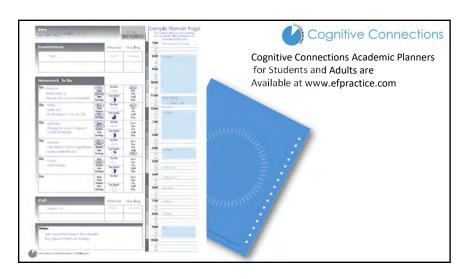


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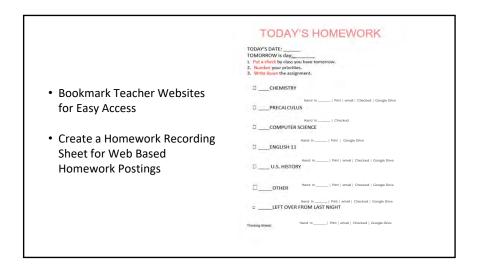


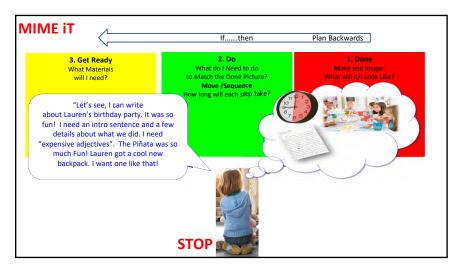


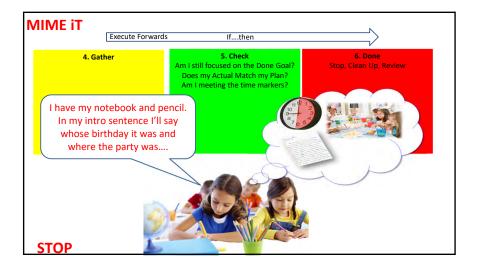




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GDD in the Classroom and Clinic:
Present the Planning Tool and Teach Backwards Planning

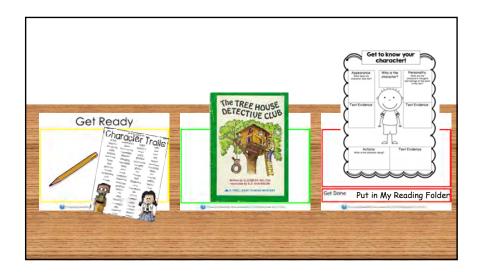
Post the class goal, objective or essential question in the Done

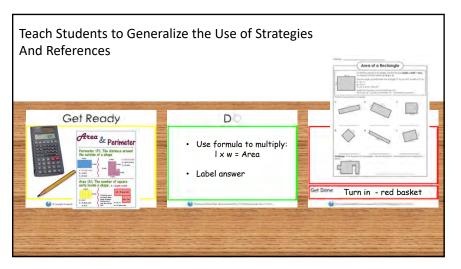
What do we need to Do in class today to answer that question?

What can we do to Get Ready?

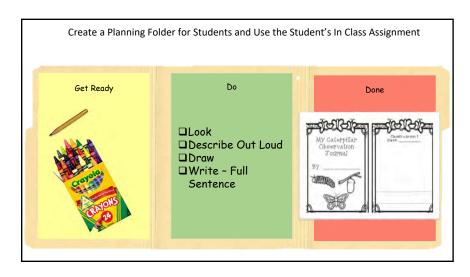
• Materials, Prior Knowledge, Self-Regulation Strategies, Potential Obstacles/Time Robbers

• Prior Experiences and Feedback

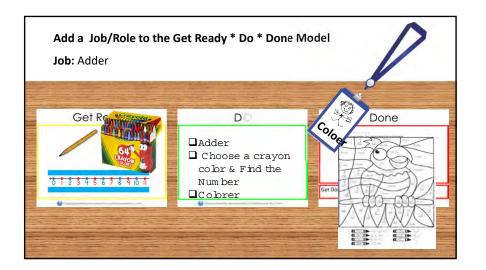


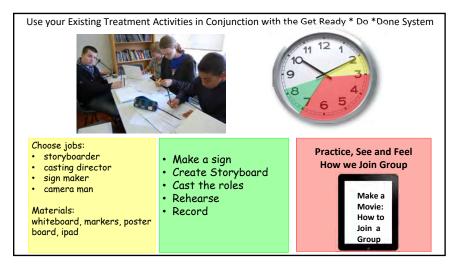


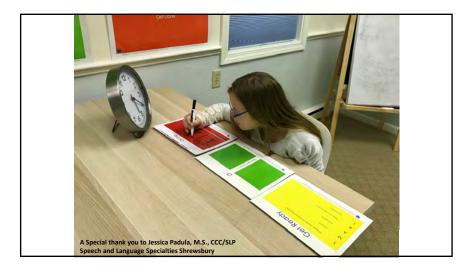




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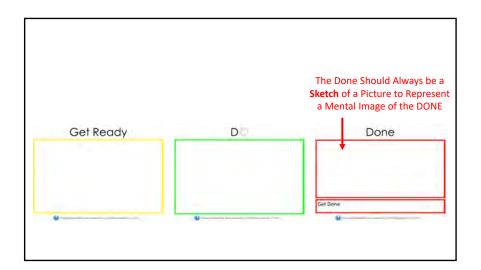


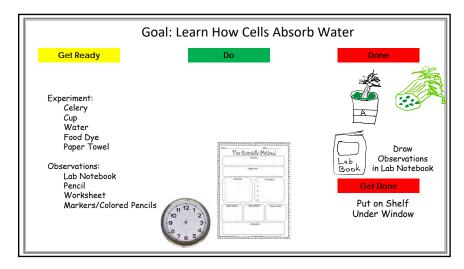


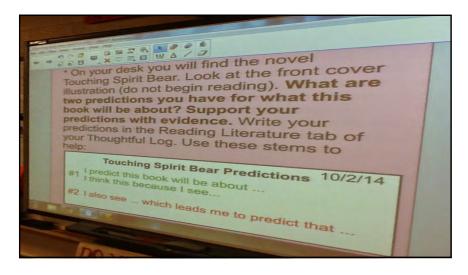




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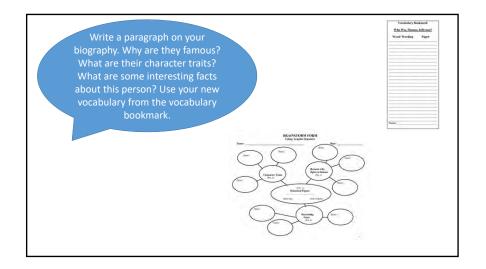


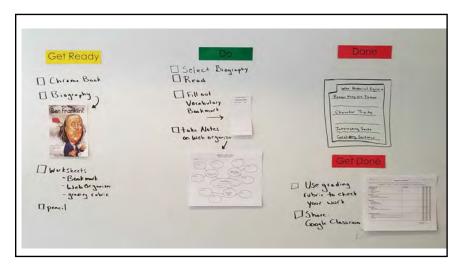


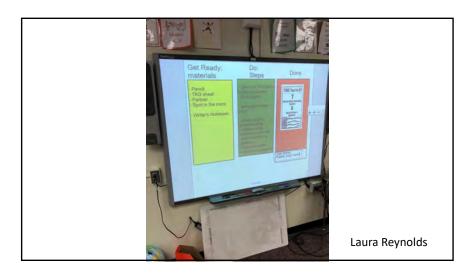


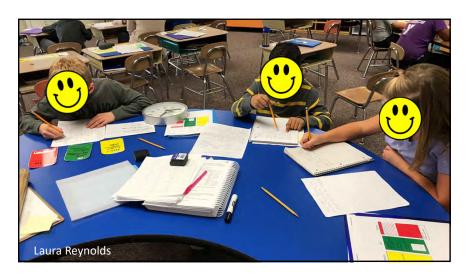


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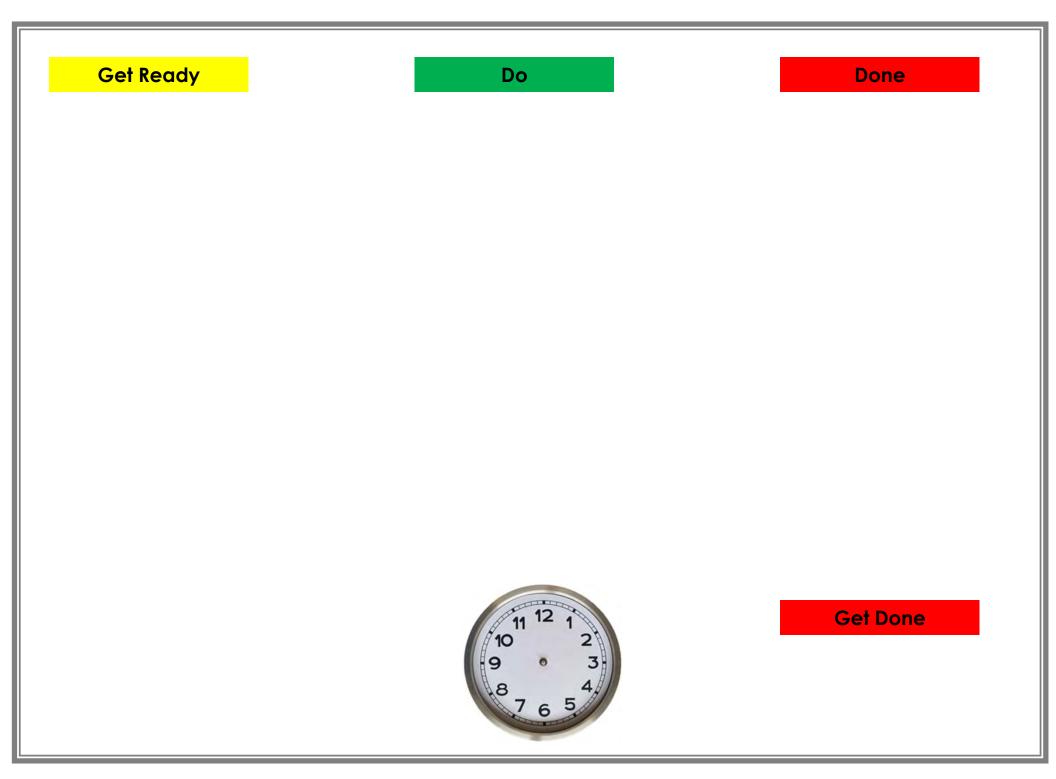


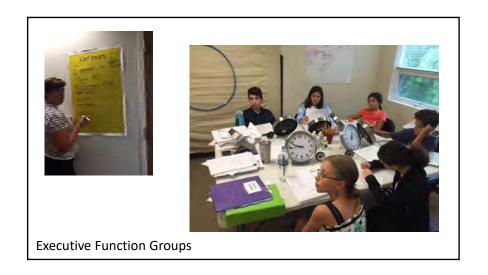




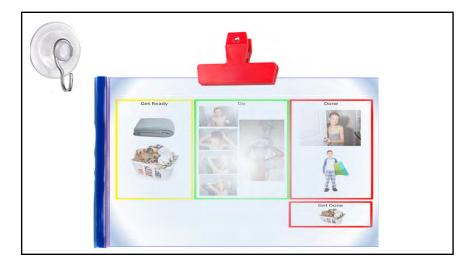


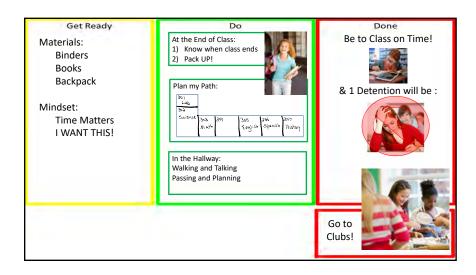
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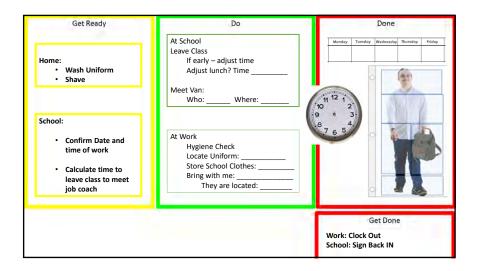




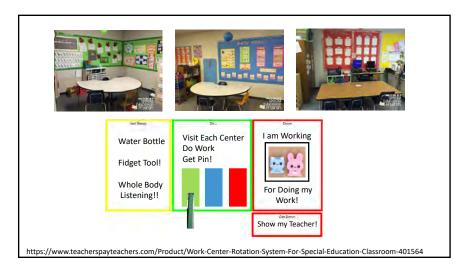




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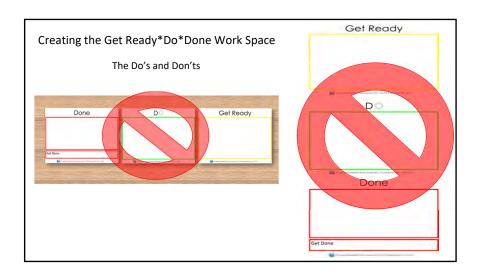




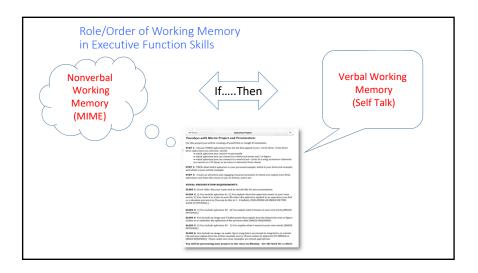


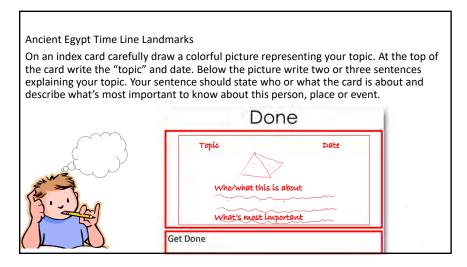


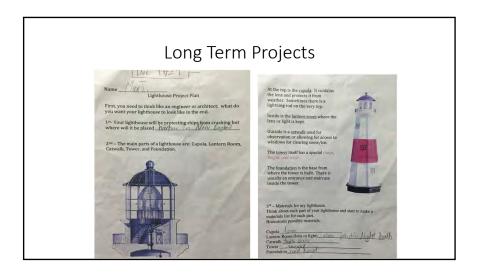
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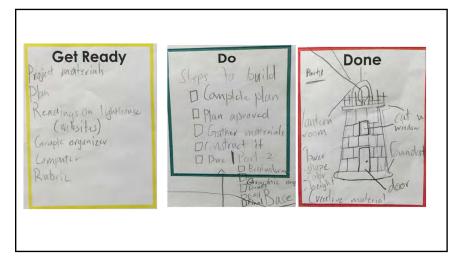


GDD in the Classroom: SKETCH When the Done is Open Ended or Novel Review the assignment and with the student sketch what Done will look like With the student break down the steps or directions in the Do space Have students identify what they need to Get Ready Materials, Prior Knowledge, Self-Regulation Strategies, Potential Obstacles/Time Robbers

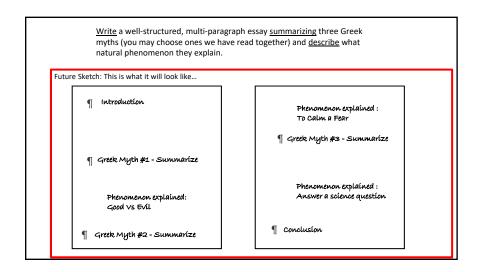








Write a multi-paragraph essay. Be sure to include a graphic organizer OF YOUR CHOICE! 1. Man has always been a questioner, wanting to know the whys of everything. Man used both his intelligence and his imagination to answer his questions long before science solved these mysteries. Myths were created thousands of years ago to help answer these age old questions, as well as to calm fears of the unknown, and as a means to teach good from evil. Write a well-structured, multi-paragraph essay summarizing three Greek myths (you may choose ones we have read together) and describe what ratural phenomenon they explain.

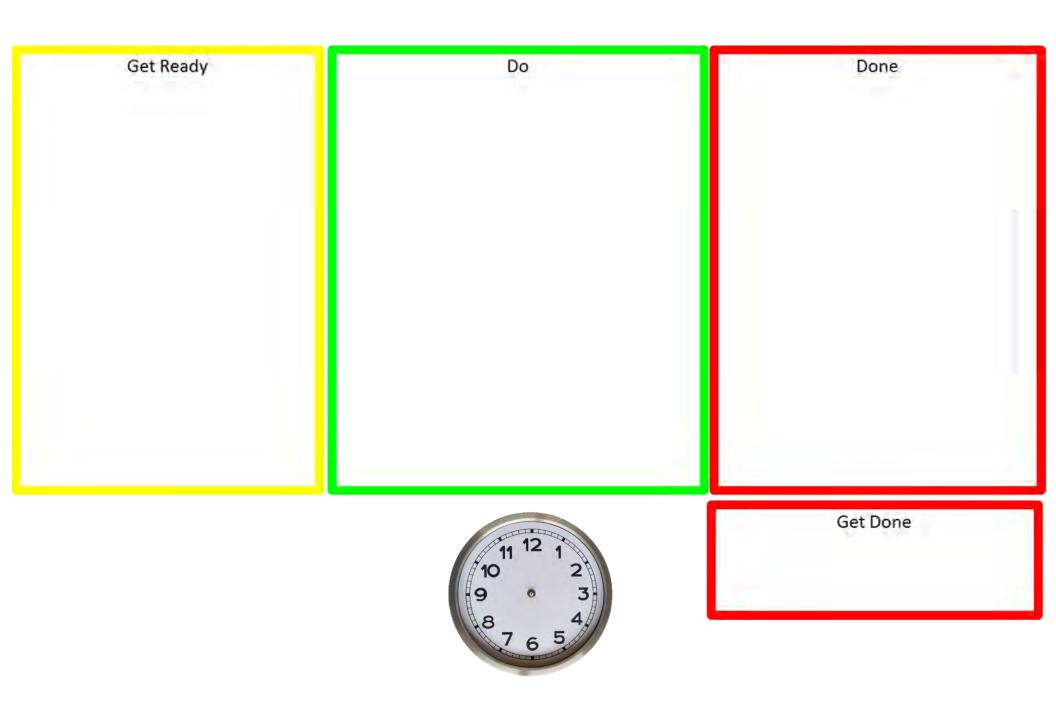


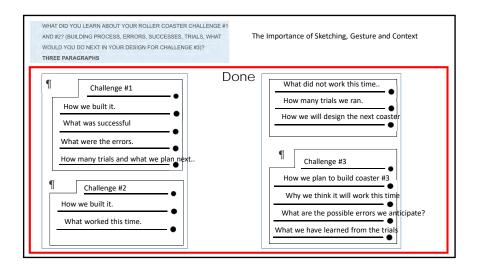
WHAT DID YOU LEARN ABOUT YOUR ROLLER COASTER CHALLENGE #1
AND #2? (BUILDING PROCESS, ERRORS, SUCCESSES, TRIALS, WHAT
WOULD YOU DO NEXT IN YOUR DESIGN FOR CHALLENGE #3)?

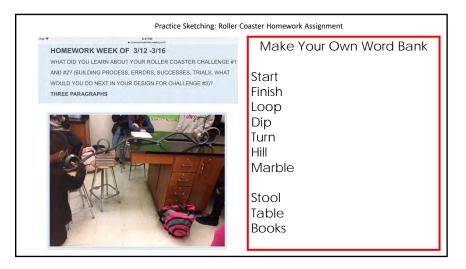
Practice Sketching: Roller Coaster Homework Assignment

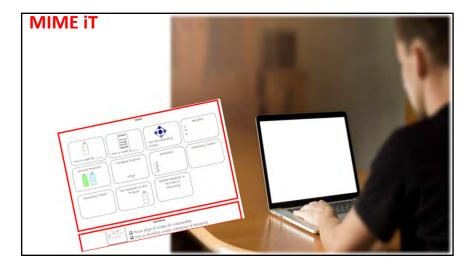
THREE PARAGRAPHS

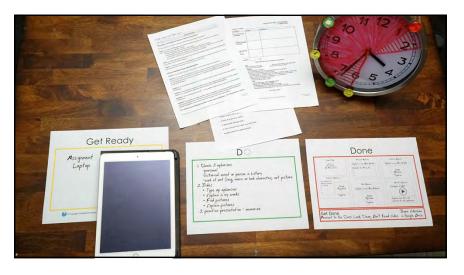
Done



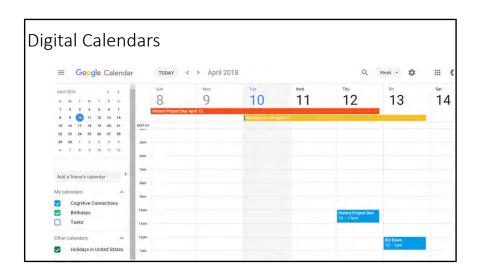








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How it Changes the Classroom ...

Task Introduction

Teacher A ...

- You are going to build a poster
- Here's is what I need you to do
 - Gather your materials at the back of the room
 - In your group decide who is going to do what
 - Your poster needs 3 ideas and 3 pictures

Task Introduction

Teacher B ...

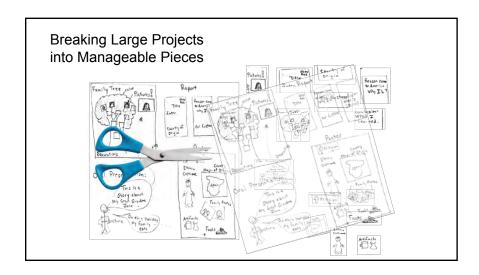
- Puts on a pair of future glasses
- · You are going to build a poster
- Here is an example of what it might Look Like(Done). What parts/features do you notice in this poster?
- How do you imagine your poster will look the same but different?
- What steps will need to **DO** to complete the task?
- What will you need to **Get Ready** to complete the task?

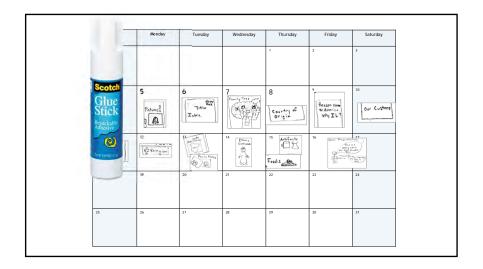
Long Term Social Studies Project

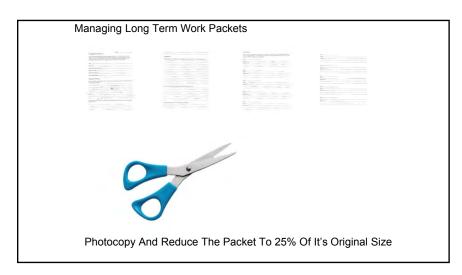
In this long-term project students will be asked to interview members of their families to learn about their ethnic heritage. Students will

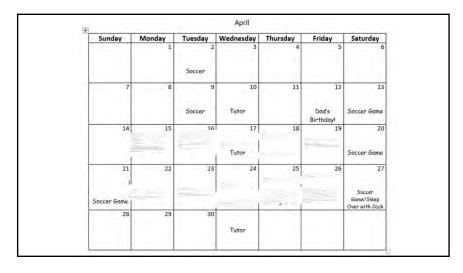
- · construct a family tree,
- · compose a report,
- craft a poster board,
- make a n oral presentation to the class.

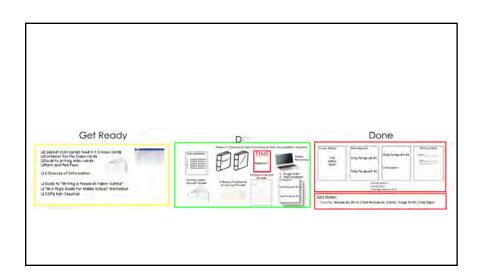




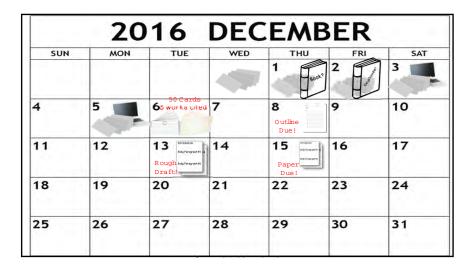








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by Sarah Ward, MS, CCC-SLP, and Kristen Jacobsen, MS, CCC-SLP

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



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

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

Developing strong executive function skills

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

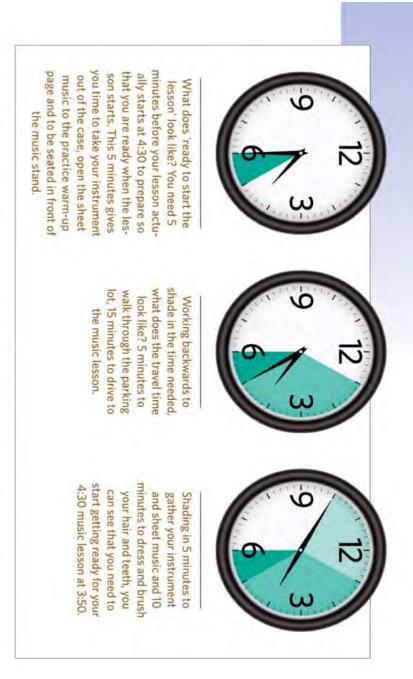
create the list and may find it hard to create imagery a checklist we've made, they have not used imagery to even if the list is left at home. When we hand children our dinner table, or shelves in our cabinets. These ima brief moment, a mental image of the supermarket, as adults, we might make a list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

than asking a child, "What do you have for homework words that create mental imagery. For example, rather tonight?" pose a question such as: "When you walk into A better technique, when giving directions, is to use

> stairs and get dressed, try saying, "What drawer do you class tomorrow, what do you see yourself handing to your child to get ready for soccer, try asking, "If you your science teacher Mr. Jenson?" Instead of directing see opening to find your sport clothes?" improve the effectiveness of your instruction to go upwould you look like? What does 'ready' look like?" To were standing at the door ready to go to soccer what

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

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



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 10.

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