



How to Keep Executive Function Functioning When Everything is Whacked!

Strategies for Supporting School Psychologists, Teachers, Parents and Students

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Routines & Procedures



- Mindful Moment
- Mute
- Brain Breaks
- Q and A ?

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Settle Your Glitter!!



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Our Backgrounds and Intentions




Secondary & Elementary Classroom Teacher



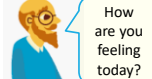
Special Education



Kathleen's Intention:
To open the heart, nourish the mind, and inspire the spirits of learners and teachers.



Musician




How are you feeling today?
School Psych



Talent Development



Multicultural Learners



Professor of Psych



IQ test
Test your IQ... How smart are you?
next
Test Author



Jack's Intention:
To help psychologists and educators know their students' cognitive and emotional strengths and needs to help them succeed in school and life.

JACKNAGLIERI.COM

Assessment Tools for Psychologists and Educators

WELCOME TO JACKNAGLIERI.COM



This site was created to provide tools and resources for both psychologists and educators alike.

Jack A. Naglieri, PhD, is a Research Professor at the University of Virginia, Senior Research Scientist at the Denver Center for Resilient Children, and Emeritus Professor of Psychology at George Mason University. With J.P. Das, he is well known for the PASS theory of intelligence and its application using the Cognitive Assessment System and Cognitive Assessment System-Second Edition.

WHAT'S NEW?

Today's Handout



Download today's handout from recent presentations.

PASS Case Studies



Case studies that illustrate ways to identify different processing disorders and interventions that can make a difference.

10-Minute Solutions



Short published papers that describe applications of PASS theory to identify disabilities such as Dyslexia.

CAS2 Speed/Fluency Scale



New FREE Speed/Fluency Scale for the CAS2

Article Library



Videos



Video library of interviews and webinars on

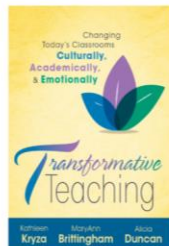
Kathleen Kryza's



Passionately Committed to Transforming Classrooms Culturally, Emotionally and Academically

"(Mindsets + Skillsets) Relevance = Results!"

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Books

Be sure to check out Kathleen's newest book, *Transformative Teaching: Changing Classrooms Culturally, Academically and Emotionally*. Kryza, Birmingham

"So much to learn, so little time - motivated to refocus."

- Anita, Philadelphia, NY



About Kathleen

For over 30 years, Kathleen Kryza has inspired thousands of children and educators around the globe through her dynamic presentations and writing. Kathleen is passionately dedicated to helping classrooms, schools, and the world, be a better place for children.



Workshops/Coaching

Top reasons to bring Kathleen to your school, district or conference:

- Participate in high quality, dynamic workshops that blend current, brain-targeted research with practical and doable

To learn more about Kathleen, **CLICK HERE.**

What's Our Point and Why are We Making It

- Our world today is dramatically different today than it was just a few months ago.
- This means that we have to **re-think how we do what we do, try new solutions, determine if they work, modify them if they don't work, improve them over time, ensure what we get is what we wanted all the while controlling our own thoughts and emotions. This is the DEFINITION of Executive Function!**
- **THE GOOD NEWS: We can leverage our understanding of brain function, especially the concept of Executive Function (EF) to help teachers, students and parents cope with these extraordinary times.**

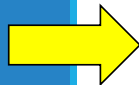


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DAY 1:

Keeping Executive
Function
Functioning



EF Defined and the EF Learning Curve (FFT)



Thinking vs. Knowing



Planning Facilitation and EF



Metacognition: Asking vs. Telling

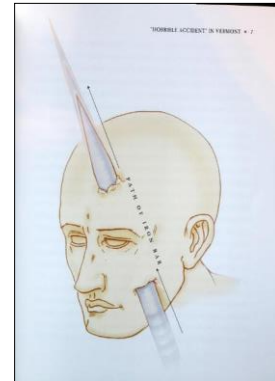
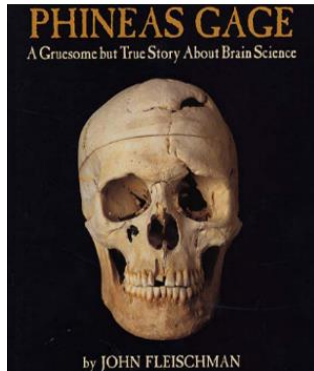


Takeaway Tips

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The Curious Story of Phineas Gage

The story of Phineas Gage had a profound impact on our understanding of the Frontal Lobes



Fleishman (2002)

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Before . . . & . . . After

Before the accident 'he possessed a well-balanced mind, was seen as a shrewd, smart businessman, very energetic and persistent in executing all his plans of operation' (Fleischman, p. 59)



After the accident, his ability to direct others was gone, he had considerable trouble with:

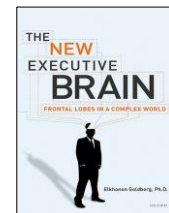
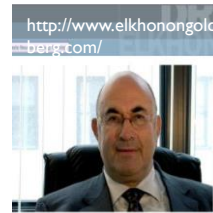
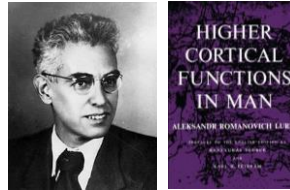
- Thinking
- Behaviors
- Work
- Social-emotional

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Executive Function

- In 1966 Luria first wrote and defined the concept of Executive Function (EF) and described the frontal lobes as “the organ of civilization”
- Luria’s student, Nick Goldberg states that the frontal lobes are about ‘making decisions, leadership, motivation, drive, vision, self-awareness, and awareness of others, success, creativity, sex differences, social maturity...’



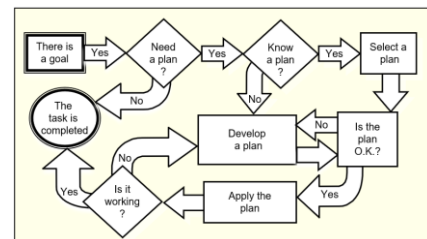
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Executive Function Defined...

Making decisions about how you do what you decide to do which demands...Especially in NOVEL situations as we have NOW!

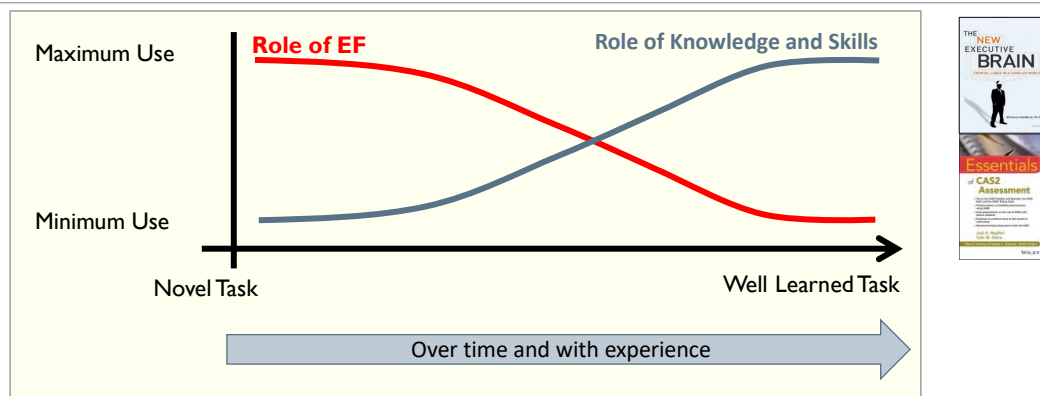
- Initiation
- Planning
- Organizing
- Attending
- Memory
- Flexibility
- Self-monitoring
- Emotion regulation
- Inhibitory control



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EF's Learning Curves (Goldberg, 2009; Naglieri & Otero, 2017)



- EF plays a major role in learning anything new (Goldberg, 2009, p. 90) but after the task has been well learned it becomes a skill and execution requires less EF (Naglieri & Otero, 2017, p. 117)

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EF's Learning Curves (Goldberg, 2009; Naglieri & Otero, 2017)

- Because **MAKING DECISIONS** about how to do what you decide to do is particularly demanded in novel situations, we need to fully engage our frontal lobes (EF) to be successful in our world today.

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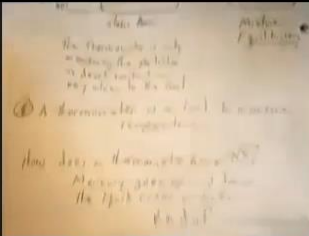


Brené Brown, FFT's

“It’s all about FFTs (effing first times) and how hard it is to be new at things – from small things to global pandemics...Yet, showing up and pushing ourselves past the awkward, learner stage is how we get braver.”

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FFT'S: Hang in there through the Learning Curve



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Why kids are stuck on the escalator?

Perhaps our educational and parenting approach has focused more on “enabling” vs. “empowering”



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Students Can Do MORE Than We Think...

- When children are constantly regulated by adults, they may appear to be self-regulated, but they are actually “teacher regulated.”
- If our goal is to...

EMPOWER



NOT



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Don't Become Their Pre-Frontal Cortex!

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Self Regulation Defined

- Self Regulation is a deep, internal mechanism that enables children to engage in mindful, intentional and thoughtful behaviors.
 - Elena Bodrova and Deborah J. Leong
- *Self-Regulation is a Skill that is Taught, it does not emerge naturally.*

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Self Regulation Has Two Sides



- The ability to control one's impulses and **STOP** doing something, if needed – for example, not blurt out an answer when another child is asked.



- The capacity to **DO** something (even if one doesn't want to) because it's needed, such as raising your hand or waiting for your turn.

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Intentional & Transparent

Want Students to OWN their Learning?
BIG IDEA

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Intentional and Transparent

- Intentional: **YOU** Know why you're doing what you're doing.
- Transparent - **THEY** know why you're doing what you're doing.



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Brain Rule #4 – John Medina

“We need to repeat to remember”

Talking about an event immediately after it has occurred **enhances memory** for that event

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Why Intentional and Transparent?

- The human brain responds to knowing **WHY**.
- Teach **WITH** your students, not **at** them.
- Teaching kids **HOW** to learn is as important as teaching them **what** to learn.

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Teaching Tip:

- Students need to be Intentionally and Transparently taught how to use the technology before you begin teaching virtually.
- Intentionally and Transparently create a safe learning environment for students as you begin virtual (or classroom) learning.

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DAY 1:

Keeping Executive Function Functioning



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Planning Facilitation and EF



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Takeaway Tips

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Thinking is the Essence of Executive Function

- When we **know** to do something we just do it because it is a well learned skill

I can do that without thinking



In **novel** situations we have to THINK more to be successful.

This is dependent on the brain's neurocognitive process we call EF

I need a PLAN

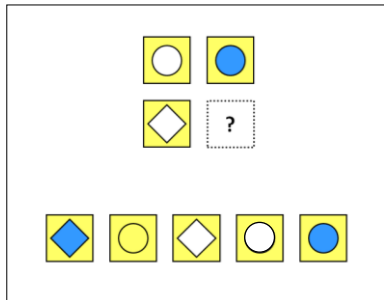


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Thinking and Knowing

Solving this task demands understanding the relationships among the parts



These tasks demand the same type of thinking (understanding relationships) but not the same kind of knowing

Girl is woman as boy is to ____?

3 is to 6 as 4 is to ____?

C⁷ is to F as E⁷ is to ____?

To κορίτσι είναι σε γυναίκα ως αγόρι;
To korítsi éinai se gynáika os agóri?

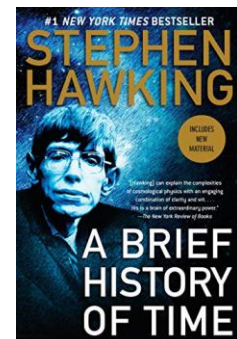
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“A Brief History of Time” by Stephen Hawking

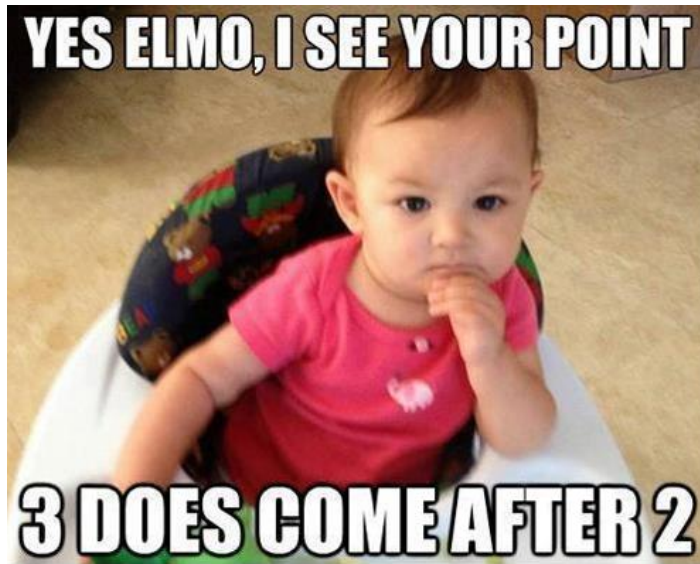
On Time Travel...

Energy is a bit like money: if you have a positive balance, you can distribute it in various ways, but according to the classical laws that were believed at the beginning of the century, you weren't allowed to be overdrawn. So these laws would have ruled out any possibility of time travel. However, the classical laws were superseded by quantum laws based on the uncertainty principal. The quantum laws are more liberal and allow you to be overdrawn on one or two accounts provided the total balance is positive. In other words, quantum theory allows the energy density to be negative in some places, provided that this is made up by the positive energy densities in other places, so that they total energy remains positive.



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**Self-
Assessment**



Mindful Moment and Self Regulation
How's Your Engine Revving?

- Too High? Too Low? Just Right?
- Do you need to energize yourself or calm yourself?
 - Energize: Do an energizing movement or activity
 - Calm: Deep breathing and deep muscle stretches

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Why Brain Breaks?

- **SYN-NAPS:** Neurotransmitters, brain transport proteins, needed for memory construction and attention are depleted after as little as ten minutes of doing the same activity. Syn-naps are brain-breaks where you change the learning activity to let the brain chemicals replenish.
- The Syn-naps can be stretching, singing, or acting out vocabulary words. After just a few minutes, refreshed brains will be ready for new memory storage.
- **Dr. Judy Willis**

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DAY 1: Keeping Executive Function Functioning



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Takeaway Tips

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A Cognitive Strategy Instruction to Improve Math Calculation for Children With ADHD and LD: A Randomized Controlled Study

Jackie S. Iseman¹ and Jack A. Naglieri¹

Abstract

The authors examined the effectiveness of cognitive strategy instruction based on PASS (Planning, Attention, Simultaneous, Successive) given by special education teachers to students with ADHD randomly assigned by classroom. Students in the experimental group were exposed to a brief cognitive strategy instruction for 10 days, which was designed to encourage development and application of effective planning for mathematical computation, whereas the comparison group received standard math instruction. Standardized tests of cognitive processes and math achievement were given at pretest. All students completed math worksheets throughout the experimental phase. Standardized achievement tests (*Woodcock-Johnson Tests of Achievement, Third Edition*, Math Fluency and *Wechsler Individualized Achievement Test, Second Edition*, Numerical Operations) were administered pre- and postintervention, and Math Fluency was also administered at 1 year follow-up. Large pre-post effect sizes were found for students in the experimental group but not the comparison group on math worksheets (0.85 and 0.26), Math Fluency (1.17 and 0.09), and Numerical Operations (0.40 and -0.14, respectively). At 1 year follow-up, the experimental group continued to outperform the comparison group. These findings suggest that students with ADHD evidenced greater improvement in math worksheets, far transfer to standardized tests of math (which measured the skill of generalizing learned strategies to other similar tasks), and continued advantage 1 year later when provided the PASS-based cognitive strategy instruction.

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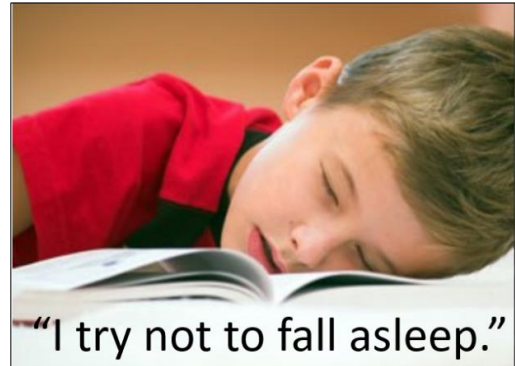
Planning Facilitation: Asking vs. Telling

- Teachers facilitated discussions to help students become more self-reflective about use of strategies
- Teachers asked questions like:
 - What was your goal?
 - Where did you start the worksheet?
 - What strategies did you use?
 - How did the strategy help you reach your goal?
 - What will you do again next time?
 - What other strategies will you use next time?

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Student Comments During Planning Facilitation

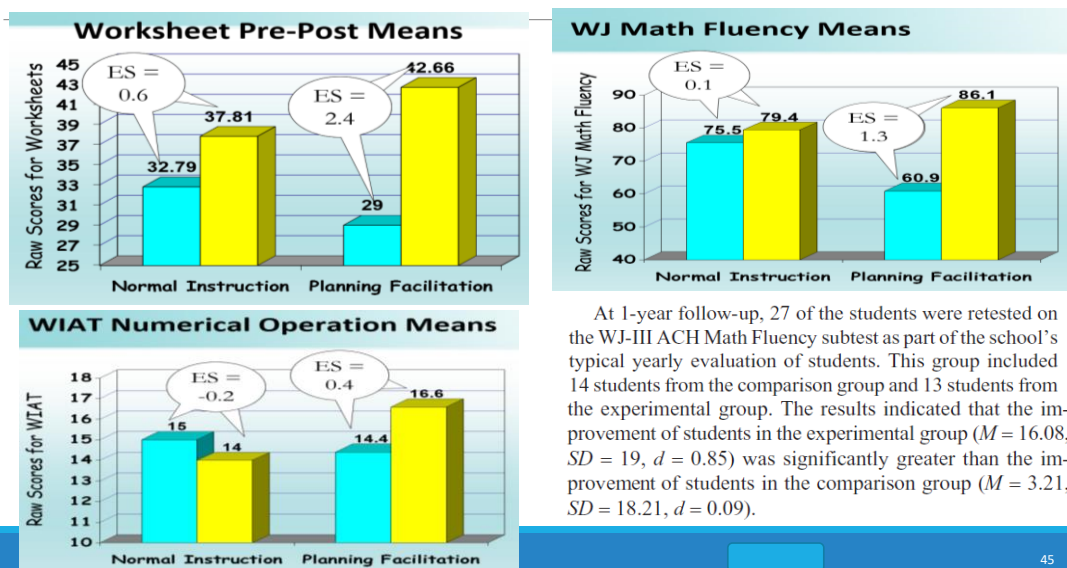
- My goal was to do all of the easy problems on every page first, then do the others.
- I do the problems I know, then I check my work.
- The problems that have more steps take more time, so I skip them
- I did all the problems in the brain-dead zone first.



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Pre-Post Means and Effect Sizes for the Students with LD and ADHD

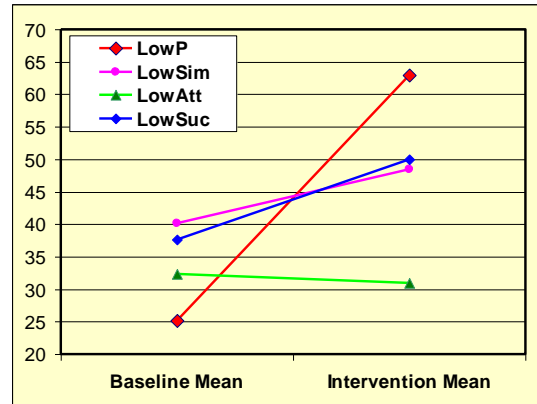


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Iseman (2005)

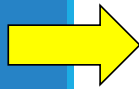
- Pre-Post mean scores by PASS profile
- Most students improve and those who are lowest in EF (Planning) benefit the MOST
- Response to the intervention was related to PASS profiles



Summary of PASS Intervention Research (Naglieri & Otero, 2017)

| | | |
|--|---|---|
| <p>Effectiveness of a Cognitive Strategy Intervention in Improving Arithmetic Computation Based on the PASS Theory</p> <p>Jack A. Naglieri and Deanne Johnson</p> <p>Abstract</p> <p>The purpose of this study was to determine if an instruction designed to facilitate planning, given by teachers, would have differential effects depending on the specific Planning, Attention, Simultaneous, Successive, and Verbal abilities of each child. A cognitive strategy instruction that encouraged planning was provided by the teachers and mild mental impairments. All students completed math worksheets during 7 baseline and 7 intervention sessions.</p> <p>A Cognitive Strategy Instruction to Improve Math Calculation for Children With ADHD and LD: A Randomized Controlled Study</p> <p>Jackie S. Iseman¹ and Jack A. Naglieri¹</p> <p>Abstract</p> <p>The authors examined the effectiveness of cognitive strategy instruction based on the PASS theory (Iseman & Naglieri, 2005) given by special education teachers to students with ADHD and LD. The experimental group were exposed to a brief cognitive strategy instruction for 10 days, which was designed to encourage development and application of effective planning for mathematical computation, whereas the comparison group received standard math instruction. Standardized tests of cognitive processes and math achievements were given at pretest. All students completed math worksheets throughout the experimental phase. Standardized achievement tests (Woodcock-Johnson Tests of Achievement, Third Edition, Math Fluency and Wechsler Individualized Achievement Test, Second Edition, Numerical Operations) were administered pre- and postintervention, and Math Fluency was also administered at 1 year follow-up. Large pre-post effect sizes were found for students in the experimental group but not the comparison group on math worksheets (0.85 and 0.26), Math Fluency (1.17 and 0.09), and Numerical Operations (0.40 and -0.14, respectively). At 1 year follow-up, the experimental group continued to outperform the comparison group. These findings suggest that students with ADHD evidenced greater improvement in math worksheets, far transfer to standardized tests of math (which measured the skill of generalizing learned strategies to other similar tasks), and continued advantage 1 year later when provided the PASS-based cognitive strategy instruction.</p> | <p>Reading Psychology, 31:428-435, 2010 Copyright © Taylor & Francis Group, LLC ISSN: 0270-2711 print / 1521-0685 online DOI: 10.1080/02702710903054915</p> <p>Routledge Taylor & Francis Group</p> <p>REMIEDIATING READING COMPREHENSION DIFFICULTIES: A COGNITIVE PROCESSING APPROACH</p> <p>SHAMITA MAHAJATRA Chris College, Cuttack, Orissa, India</p> <p>J. P. DAS, HOLLY STACK-CUTLER, and RAJNO PARRILA Department of Educational Psychology, University of Alberta, Edmonton, Alberta, Canada</p> | <p>J. P. Das, Denyse V. Hayward, George K. Georgiou University of Alberta</p> <p>Troy Janzen Taylor University College</p> <p>Neelam Bora Nipahkhopark Middle School</p> <p>Comparing the Effectiveness of Two Reading Intervention Programs for Children With Reading Disabilities</p> <p>Abstract</p> <p>The effectiveness of two reading intervention programs (phonics-based and inductive learning) was investigated with 63 First Nations children.</p> <p>Journal of Psychological Assessment 2008, 21, 292-299</p> |
| | <p>Mathematics Instruction and PASS Cognitive Processes: An Intervention Study</p> <p>Jack A. Naglieri and Suzanne H. Gotting</p> <p>Abstract</p> <p>The purpose of this study was to determine if an instruction designed to facilitate planning, given by teachers to the group, would have differential effects depending on the specific cognitive characteristics of the individual students. Instruction that facilitated planning was provided to a group of 12 students with learning disabilities. All students were work sheets during 7 sessions of baseline and 21 sessions of intervention (when the instruction designed to facilitate planning was provided). During the intervention phase, students engaged in self-reflection and evaluation of strategies about how problems were completed. The class was sorted according to planning scores, obtained using the Cognitive Assessment System (CAS), which is based on Planning, Attention, Simultaneous, Successive (PASS) theory, and low- and high-planning contrast identified. The results, consistent with previous research, showed that teaching control and regulation of cognitive processes for all students but was especially helpful for those who were poor in planning, as defined by the PASS theory. Implications of these findings are provided.</p> | <p>PLANNING FACILITATION AND READING COMPREHENSION: INSTRUCTIONAL RELEVANCE OF THE PASS THEORY</p> <p>Frederick A. Haddad Kyrene School District, Tempe, Arizona</p> <p>Y. Evie Garcia Northern Arizona University</p> <p>Jack A. Naglieri George Mason University</p> <p>Michelle Grinditch, Ashley McAndrews, Jane Eubanks Kyrene School District, Tempe, Arizona</p> <p>Abstract</p> <p>The purpose of this study was to evaluate whether instruction designed to facilitate planning would have differential benefit on reading comprehension depending on the specific Planning, Attention, Simultaneous, and Successive (PASS) cognitive characteristics of each child. A sample of 45 fourth-grade general education children was sorted into three groups based on each PASS scale profile from the Cognitive Assessment System (CAS). The groups did not differ by CAS Full Scale standard score, chronological age, gender, or pretest reading comprehension scores. After each child's pretest reading comprehension instructional level was determined, a cognitive strategy instruction intervention was conducted. The children completed a reading comprehension posttest at their respective instructional levels after the intervention. Results showed that children with a Planning weakness ($n = 15$) benefited substantially (effect size of 1.32) from the instruction designed to facilitate planning. Children with no weakness ($n = 21$; effect size = .32) or a Successive weakness ($n = 11$; effect size of .06) did not benefit as much. These results support previous research suggesting that PASS profiles are relevant to instruction.</p> |

DAY 1: Keeping Executive Function Functioning



EF Defined and the EF Learning Curve (FFT)



Thinking vs. Knowing



Planning Facilitation and EF



Metacognition: Asking vs. Telling



Takeaway Tips

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Mindsets + Skillsets = Results

- Mindsets & Skillsets include
 - Brain-based concepts such as
 - Executive Function
 - Metacognition
 - Self-Regulation
 - Planning
 - **These concepts are all closely related to the FRONTAL LOBES of the brain.**

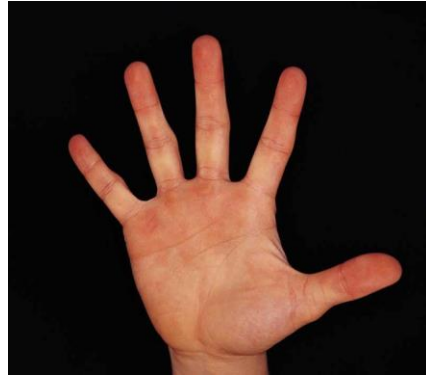


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Metacognition: Do WE get it?

- On a scale of 1-5 fingers, how well do you think you know and apply the concept of metacognition in your classroom/school?

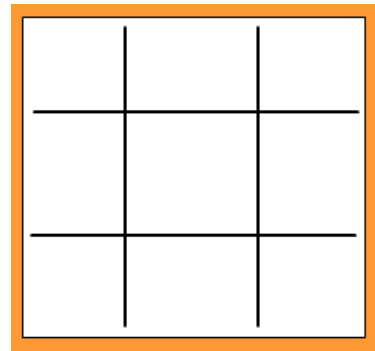


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First – Teach Intentionally and Transparently About Metacognition

- Metacognition is *thinking about your thinking*, having a plan of action for what to do when you don't know.
- Core Groups: Come up with your own definition of metacognition



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The front part of your brain, or pre-frontal cortex, is where you come up with strategies or plans like you did for tic tac toe.

You can train your brain to get better at Planning



© A. Well - 2007

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&



Draw a picture that represents your idea of metacognition.

STOP AND DRAW: Non-linguistic representations helps cement learning

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THINK SMART: Ask Questions, Don't Tell

- Kathleen, do this, do that, this way... with the sails, the anchor, the helm, the lines



- Kathleen, what do you think you should do now? What would do differently next time?



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Reframe your Telling to Asking...

- *This is what you need to do...*
 - **How could you do/approach this task?**
- *You're stuck. Let me help you.*
 - **What options do you have for getting unstuck?**
- *Here's your grade for the test.*
 - **Look over your test. What did you do to study that worked? What you would do differently next time?**

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| An Introduction to METACOGNITION - Lesson | | |
|---|--|--|
| Length | 30 minutes | |
| C U KAN | <p>Concept: METACOGNITION</p> <p>Understand: that metacognition is essential in becoming an effective learner</p> <p>Know: Metacognition</p> <p>Able To Do: Define metacognition through a song, rap, poem or chant that will help them to remember to be metacognitive.</p> <p>Now You Get It: Students will reflect on how using metacognition will help them become better learners.</p> | |
| Evidence | Metacognition journal/chart entries (follow up lessons) & memorization of the song/chant | |
| Min | materials | Lesson details |
| 2 | worksheet | <p>Do Now: Students should silently write down their own descriptions of what's happening in the cartoon. (It's a frog thinking about his own thinking = metacognition)</p> |
| 1 | | <p>Opening: Choose a student to share her description with the class. Tell the students that this picture will make more sense by the end of the lesson if it hasn't quite clicked for them yet.</p> |
| 3 | Worksheet Pencils Timer | <p>Brain warm up/game time: Tell the students that they will have a chance to play Tic Tac Toe with a partner. They can play as many games as possible within the 2-minute time limit. Tell them to <u>pay attention to what's going on in their minds</u> as they make their choices throughout the games.</p> |
| 4 | | <p>Discussion: Have students raise their hands if they won at least one match. Ask some students to share their secrets: What were they thinking in their minds before they made their moves? Do you have a favorite place to start? Why do you start there?</p> <p>Most likely the students will say they like to start in the corner because they can win that way.</p> <p>Teacher says: "Right! You have a plan, and that helps you win! If your opponent does something you hadn't expected, you're able to think of ways to adjust your plan so that you still win. Now I'm going to teach you a new important word and show you how to create a plan for winning the learning game. I'll help you see how this same type of thinking will translate to better results with your school work."</p> |
| 15 | White board & marker or a chart paper Smartboard or projector and computer to show the clip | <p>Lesson: Define metacognition: Thinking about one's thinking. Developing, monitoring and adjusting your plans to help you learn effectively.</p> <p>(Depending on the age group of students with whom you're working, this video could be a good resource to use describe metacognition to the class - http://www.youtube.com/watch?v=mVE21QhY-I)</p> <p>Have you ever turned to the next page in your book and only to realize that you hadn't really been paying attention to the words you were "reading"?</p> <p>Have you ever spent time "studying" flash cards only to realize that you can't remember any of the words or concepts?</p> <p>Being metacognitive will help you be aware of your own learning and adjust your strategies to make learning easier.</p> |

www.kathleenkryza.com
 see the Newsletter on
 Metacognition
<https://kathleenkryza.com/blog/2016/2/thinking-about-thinking>

Name _____ date _____

In your own words describe what's happening in this cartoon.




Game time:

| | | | |
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| | | | |
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| | | | |

Metacognition Definition

How will metacognition help you become a better learner?

METACOGNITION



THINKING ABOUT ONE'S THINKING

Flash Mob: Antwerp train Station (www.efintheclassroom.net)



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Planning Lesson Student Responses



Q 1: What would you have to plan?

- They had to learn the dance steps (knowledge)
- Someone had to start dancing (initiation)

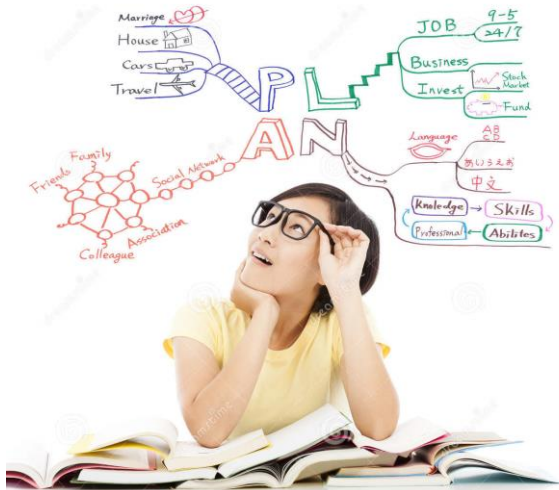
Q2: What are the parts of a good plan?

- Think of possible problems (strategy generation)
- Organize the dance (organization)

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Planning Lesson Student Responses



Q3: How do you know if a plan is any good?

- Put the plan in action and see if it works (self-monitoring)
- Give it a try (perhaps learn by failing)

Q4: What should you do if a plan isn't working?

1. Fix it. (self-correction)
2. Go home! (a bad plan)

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Planning Lesson Student Responses



Q5: How do you use planning in this class?

1. We don't plan in this class
2. Mrs. X does all the planning in this class so you don't have to think about planning

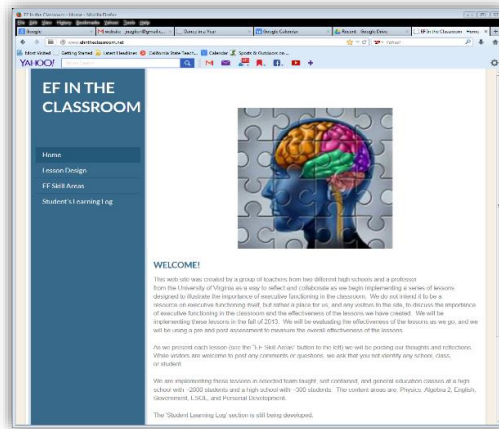
To encourage EF we have to stress thinking about *how to do what you decide to do*
... That is **THINK** out of the box

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All Lessons Available for Free at

www.efintheclassroom.net

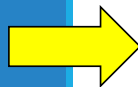


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DAY 1:

Keeping Executive Function Functioning



EF Defined and the EF Learning Curve (FFT)



Thinking vs. Knowing



Planning Facilitation and EF



Metacognition: Asking vs. Telling



Takeaway Tips

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Tips and Takeaways



- **Teach intentionally and transparently.**
 - It's normal to experience TFT (terrible first time). It's part of the Learning Curve
 - Self Regulation is being in control of yourself. You can learn to do this.
 - How to use the technology BEFORE you teach
- **Repeat to Remember.** (ask students to say things to each other or to themselves. Tell them WHY.)
- **Brain Breaks:** How often? What does your body need right now.
- **Stop and Draw:** Drawing is powerful way to show understanding
 - Use Zoom Whiteboard, Voicethread, paper and pencil. Other?
- **Practice Asking vs. Telling.** "When do you plan to do your homework? What do you need to do for your brain break? Let's plan our daily schedule together.

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More to Come... April 20th

- Metacognitive Thinking (EF) Before, During and After Learning
- Lesson Planning Framework and examples

YOUR HOMEWORK: Catch yourself TELLING and practice reframing to ASKING

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THANK
YOU

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

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