



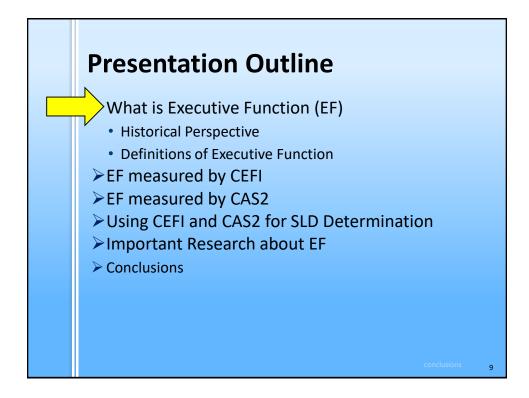
Core Group

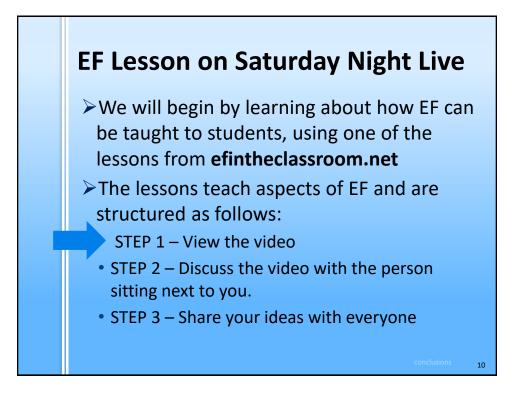
➤Share with your CORE GROUP

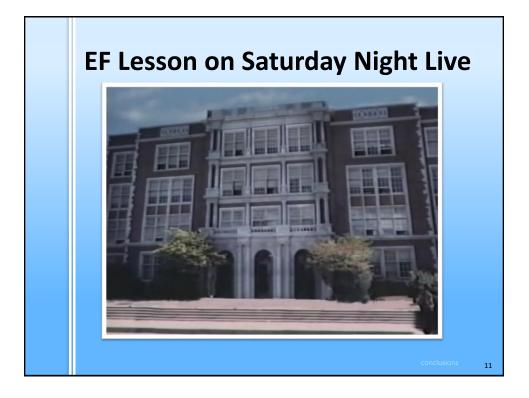
- Your Name
- Where are you from?
- What do you do?
- What brings you here today?

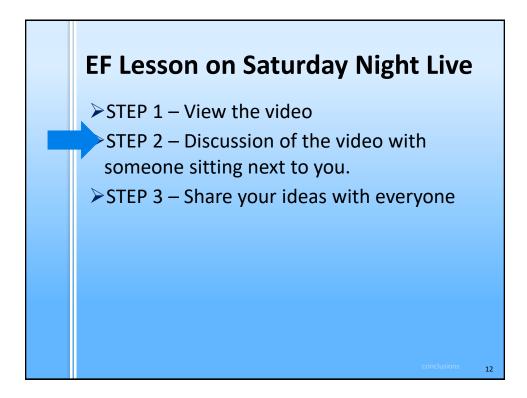


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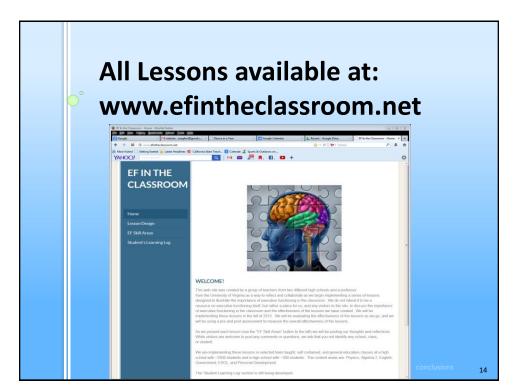


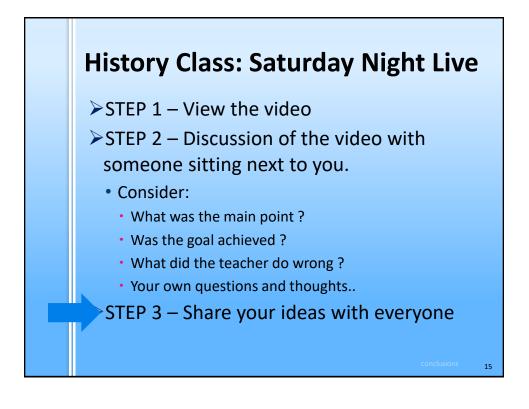


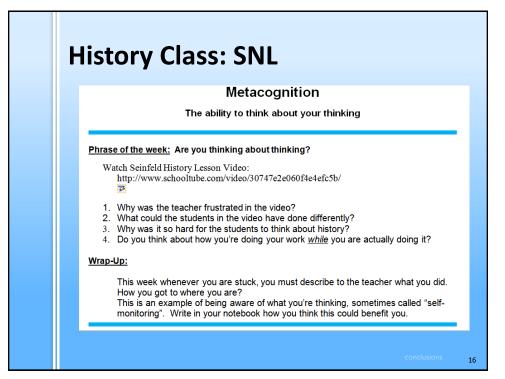
Time to Think and Talk

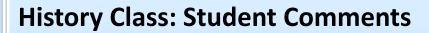
≻Task:

- Talk with your partner(s)
- >What was the main point ?
- ≻ Was the goal achieved ?
- Why was it so hard to get the students to think?
- Your own questions and thoughts..









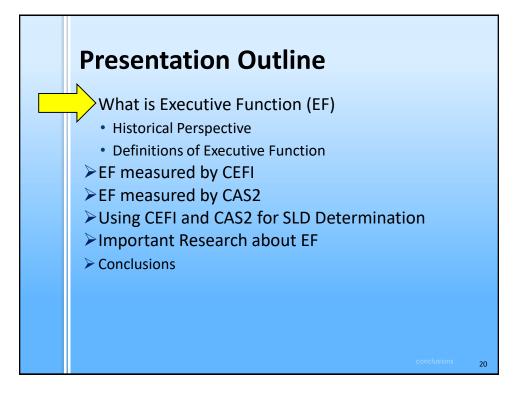
- 'The teacher was frustrated because the students weren't thinking about what he was saying'
- 'They should have paused before responding so that they could think'
- 'When you feel pressure you'll say anything if you don't know the answer'

History Class: Student Comments

- 'The way teachers run the class stops you from thinking because they tell you there is only one way to do something – but it's a fact that there is more than one way to solve a problem'
- 'That's what I like about this class, there are different ways to solve the problems'
- 'We need to know why the teacher is getting us to learn history'

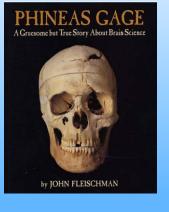
History Class: Saturday Night Live

- > Teach students to think not just remember
- How to learn is just as important as what to learn
- This is what Thinking Smart is all about
- This is the theme of today's workshop
- We can measure thinking smart (using EF) with the CEFI and the CAS2



The Curious Story of Phineas Gage

John Fleischman's book "Phineas Gage: A Gruesome but True Story About Brain Science" is an excellent source of information about this person, his life, and how this event impacted our understanding of how the brain works; and particularly the frontal lobes.



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The Curious Story of Phineas Gage

- September 13, 1848 26 year old Phineas Gag was in charge of a railroad track construction crew blasting granite bedrock near Cavendish, Vermont
- The job Phineas has is to use a "tamping iron" to set explosives
- The tamping iron is a rod about 3 ½ feet long weighing 13 ½ lbs pointed at one end



<text><list-item><list-item>

Before . . . & . . . After

- Before the accident 'he possessed a wellbalanced mind, was seen as a shrewd, smart business man, very energetic and persistent in executing all his plans of operation' (p 59)
- After the accident his ability to direct others was gone, he had considerable trouble with decision making, control of impulses and interpersonal relationships
- 1. Intellect
- 2. Behavior
- 3. Emotion
- 4. Work
- 5. Impairment

^{ns} 24

More Specifically

- The dorsolateral prefrontal cortex is involved with the ability to plan, shift set, organize remember and solve novel problems.
- That is: planning and decision making, self monitoring, self correction, especially when responses are not well-rehearsed or contain novel sequences of actions.

Dorsolateral prefrontal

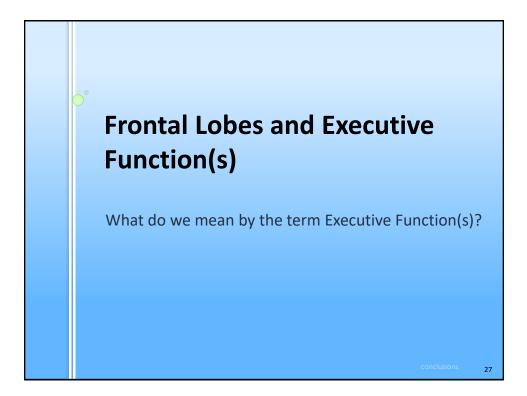
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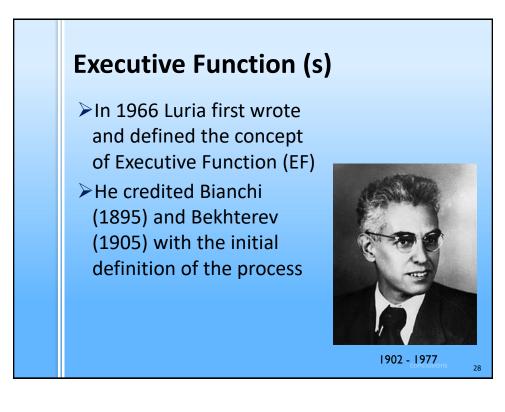
cortex

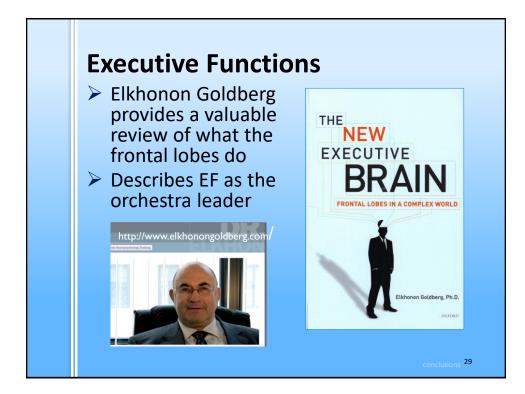
The Curious Story of Phineas Gage

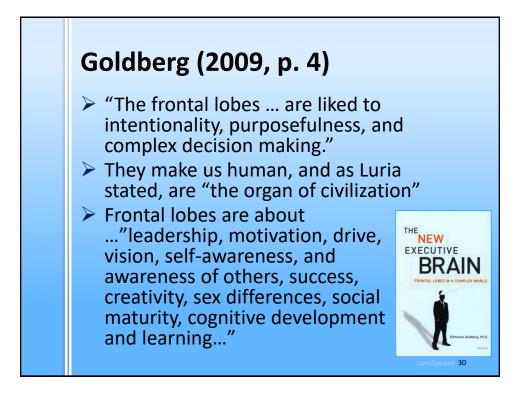
The Skull of Phineas Gage is at Harvard's Warren Anatomical Museum













Executive Function

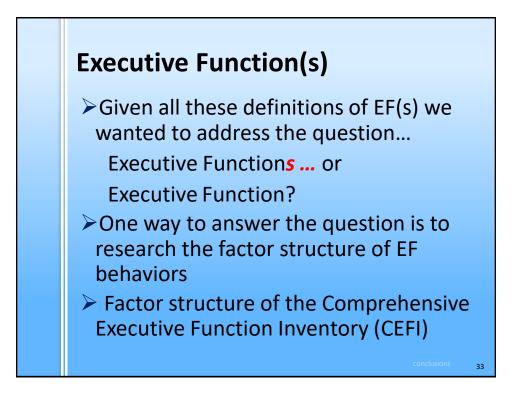
- EF has is a unitary construct (Duncan & Miller, 2002; Duncan & Owen, 2000).
- EF is unidimensional in early childhood not adulthood.
- Both views are supported by some research (Miyake et al., 2000) EF is a unitary construct ... but with partially different components.

Executive Functions

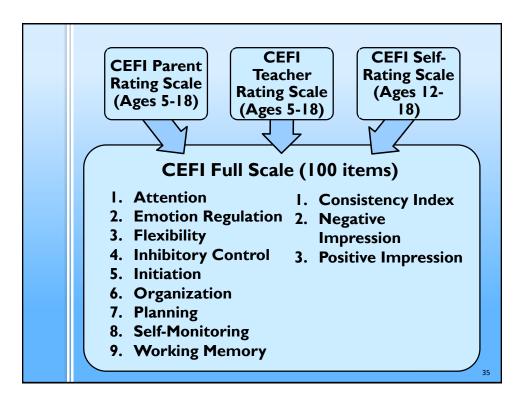
- EF has three components: inhibitory control, set shifting (flexibility), and working memory (e.g., Davidson, et al., 2006).
- Executive Functions is a multidimensional model (Friedman et al., 2006) with independent abilities (Wiebe, Espy, & Charak, 2008).

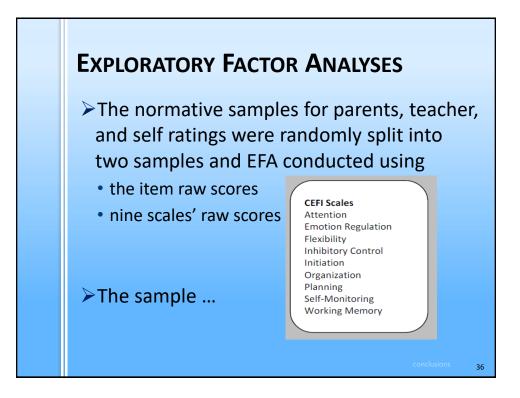
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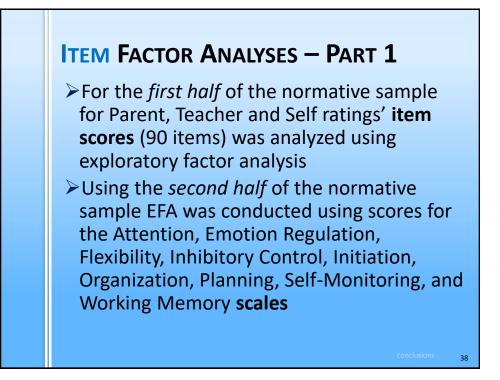








- Sample was stratified by
 - Sex, age, race/ethnicity, parental education level (PEL; for cases rated by parents), geographic region
 - Race/ethnicity of the child (Asian/Pacific Islander, Black/African American/African Canadian, Hispanic, White/Caucasian, Multiracial by the rater
 - Parent (N=1,400), Teacher (N=1,400) and Self (N=700) ratings were obtained



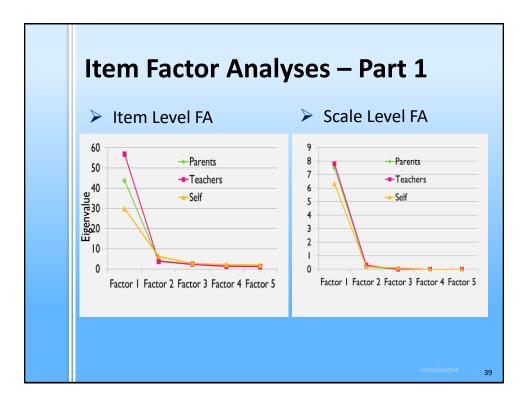
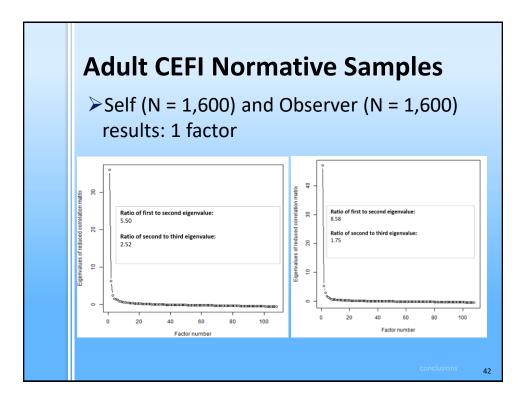


Table 8.6	Consisten	cy of Factor L	adings Across Groups
Grouping Factor	CEFI Form	Coefficient of Congruence	Nearly identical
ractor	Parent	.999	factor solutions
Gender	Teacher	.999	
	Self-Report	.992	(ALL ONE
Race/	Parent	.996	FACTOR) by
Ethnic	Teacher	.999	
Group	Self-Report	.995	Gender,
	Parent	.999	Race/Ethnic, Age
Age	Teacher	.999	and
	Self-Report Parent	.995	
Clinical/	Teacher	.993	Clinical/typical
Educational	Self-Report	.976	status

	0
CCRAST	0 +
	0
CEFI Adult M	0
Jack A. Naglieri, Ph.D. & Sam Goldstein, Ph.D.	0
	0
Observer Form	0 0
CLENTS NAME/CO. TOORTS DATE: New Movie: Day	0
GINDER BRTH DATE Number Day D1M D1F // / / / / / / / / / / / / / / / / / /	0
International Control	0 0
/ DXAMER	0
	0
WMHS (apple 2017 Marchael Spread And State (1997) 1997 (1997) 19	0
Restrict index 4.107 http://dx.doi.org/10.0027 www.restlict.index.com/dx.doi.org/10.2021/0.2021	0
	conclusions 41

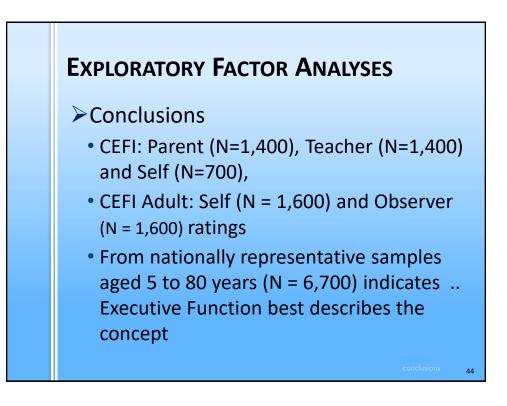


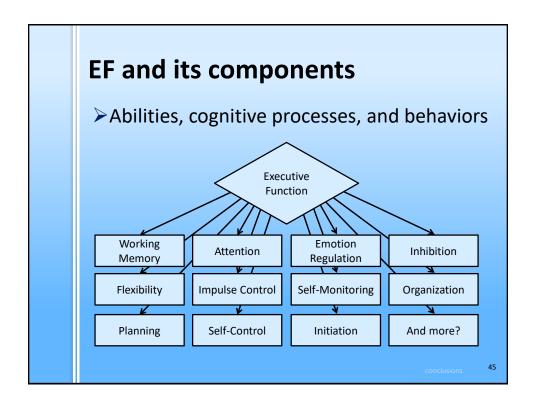
CEFI Adult Consistency of Loadings

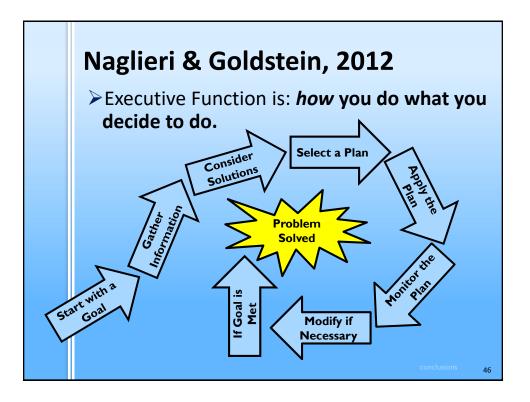
Consistency of Factor Loadings Across Groups

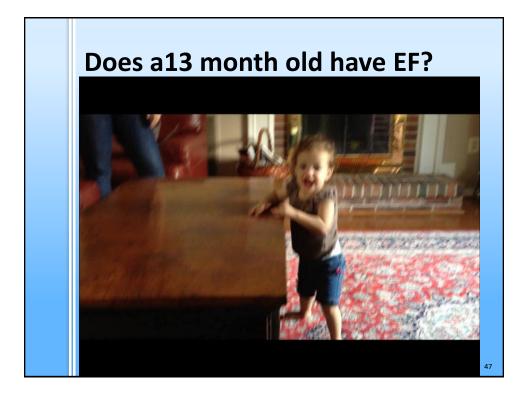
Exploratory factor analysis (EFA) was used to examine the replicability of the unidimensional factor structure of the CEFI Adult across several demographic groups (gender, age, race/ethnicity, and clinical status). The EFA procedure was conducted for each demographic group to determine if the factor structure was consistent across genders (males vs. females), ages (below vs. at or above the normative mean of 50), race/ethnicity (broken down into White vs. non-White to allow large enough sample sizes to detect differences), and clinical status (non-clinical vs. clinical). The factor loadings of the items were correlated across groups to compute the coefficient of congruence (Abdi, 2010); results revealed a very high degree of consistency across all groups (see Table 8.6), indicating that the <u>unidimensionality</u> of the CEFI Adult generalized across the demographic groups.

Grouping	Form	Coefficient	Group 1	Group 2		
Factor	Form	of Congruence	Level	N	Level	N
Gender	Self-Report Form	.998	Male	795	Female	865
Gender	Observer Form	.999	Male	795	Female	865
Race/Ethnicity	Self-Report Form	.997	White	1,153	Non-white	507
	Observer Form	.999	White	1,154	Non-white	506
A	Self-Report Form	.997	Under 50 years	840	50+ years	820
Age	Observer Form	.999	Under 50 years	840	50+ years	820
Clinical Status	Self-Report Form	.993	Non-clinical	1,501	Clinical	159
Clinical Status	Observer Form	.996	Non-clinical	1,497	Clinical	163

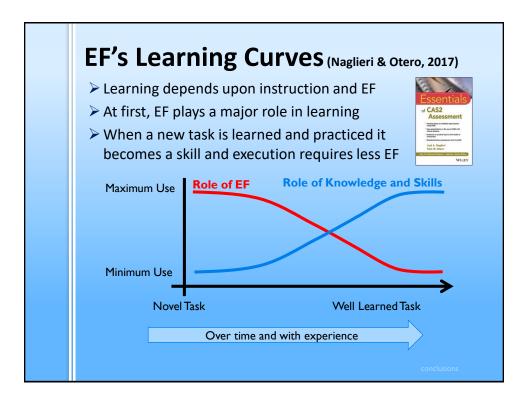


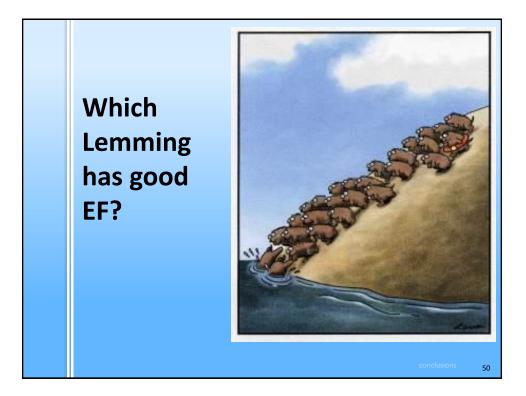








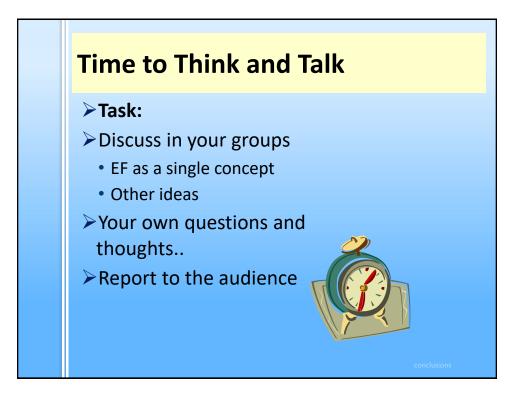


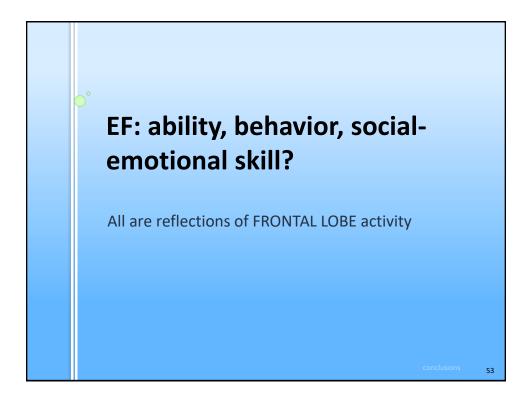


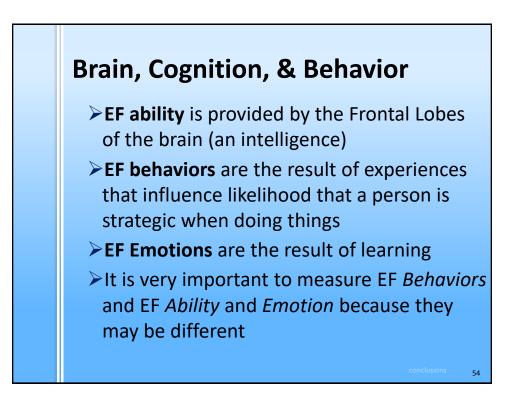
Executive Function Involves

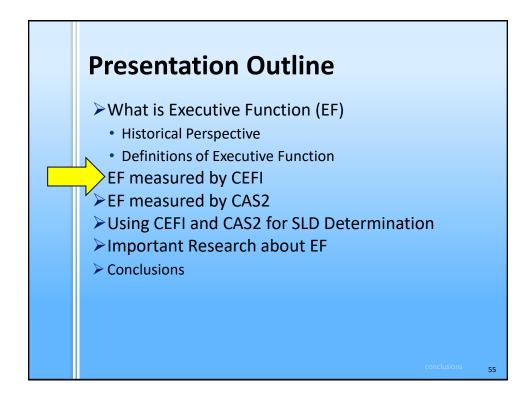
"How you decide what to do" demands...

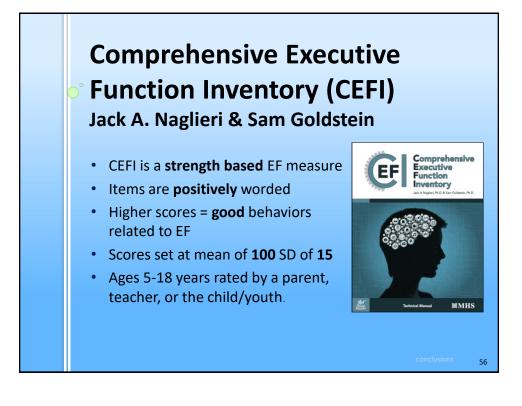
 Initiation to achieve a goal, planning and organizing parts of a task, attending to details to notice success of the solution, keeping information in memory, having flexibility to modify the solution as information from selfmonitoring is received and demonstrating emotion regulation (which also demands inhibitory control) to ensure clear thinking so that the task is completed successfully.



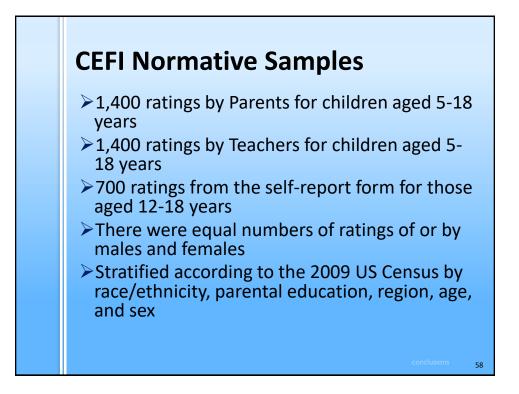


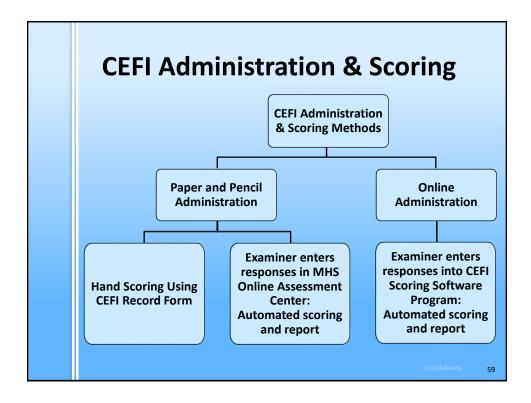


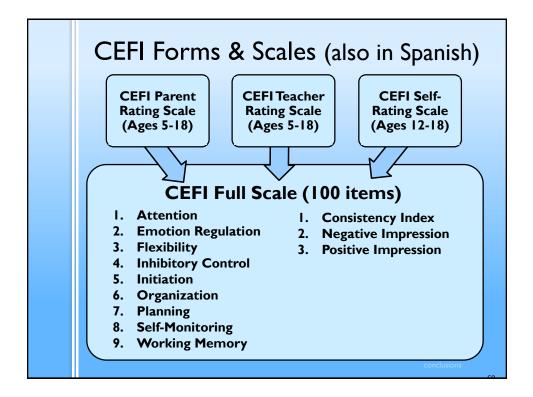








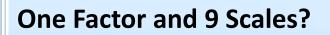




CFE	I Items by Scale	a
CLI	Thems by Scale	
Table		
Item #	C.4. Attention (12 items) Parent/Teacher Item During the past 4 weeks, how often did the child	Self-Report Item During the past 4 weeks, how often did y
3.	finish a boring task?	finish a boring task?
11.	work well in a noisy environment?	work well in a noisy environment?
21.	work well for a long time?	work well for a long time?
Item	child	Self-Report Item During the past 4 weeks, how often did
10.	control emotions when under stress?	control emotions when under stress?
12.	stay calm when handling small problems?	stay calm when handling small problems?
42.	find it hard to control his/her emotions? (R)	find it hard to control your emotions? (R)
Table C	.6. Flexibility (7 items)	I
Item #	Parent/Teacher Item During the past 4 weeks, how often did the child	Self-Report Item During the past 4 weeks, how often did yo
7.	come up with a new way to reach a goal?	come up with a new way to reach a goal?
41.	come up with different ways to solve problems?	come up with different ways to solve problem
- I	have many ideas about how to do things? have many ideas about how to do things?	

Tabl		Inhibitory Control (10 items)		
ltem	# D	arent/Teacher Item uring the past 4 weeks, how often did the hild		-Report Item ing the past 4 weeks, how often di
1.	th	ink before acting?	thin	k before acting?
19.	fir	nd it hard to control his/her actions? (R)	find	it hard to control your actions? (R)
32.	th	ink of the consequences before acting?	thin	k of the consequences before acting
36	able (C.8. Initiation (10 items)		
4(tem #	Parent/Teacher Item During the past 4 weeks, how often did the child		Self-Report Item During the past 4 weeks, how o
1	6.	start something without being asked?		start something without being as
3	0.	start conversations?		start conversations?
3	9.	take on new projects?		take on new projects?
Tabl	e C.9.	Organization (10 items)		
ltem	# D	arent/Teacher Item luring the past 4 weeks, how often did the hild		elf-Report Item uring the past 4 weeks, how often
5.	С	omplete one task before starting a new one?	со	mplete one task before starting a r
13.	0	organize his/her thoughts well?		ganize your thoughts well?
18.	a	ppear disorganized? (R)	ap	pear disorganized? (R)

	I Items by Scale	5
Table	C.10. Planning (11 items)	
Item #	Parent/Teacher Item During the past 4 weeks, how often did the child	Self-Report Item During the past 4 weeks, how often did y
9.	prepare for school or work?	prepare for school or work?
15.	solve problems creatively?	solve problems creatively?
22.	do things in the right order?	do things in the right order?
28.	plan for future events?	plan for future events?
Table	C.11. Self-Monitoring (10 items)	
Item #	Parent/Teacher Item During the past 4 weeks, how often did the child	Self-Report Item During the past 4 weeks, how often did y
6.	ask for help when needed?	ask for help when needed?
14.	fix his/her mistakes?	fix your mistakes?
17.	change a plan that was not working?	change a plan that was not working?
29.	learn from past mistakes?	learn from past mistakes?
Table	C.12. Working Memory (11 items)	
Item #	Parent/Teacher Item During the past 4 weeks, how often did the child	Self-Report Item During the past 4 weeks, how often did yo
4.	forget instructions? (R)	forget instructions? (R)
8.	remember how to do something?	remember how to do something?
23.	forget instructions with many steps? (R)	forget instructions with many steps? (R)
26	remember many things at one time?	remember many things at one time?



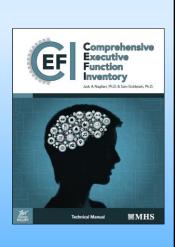
- NOTE: EF is a unidimensional concept
- Use the Full Scale to answer the question "Is the child poor in EF or not?"
- Use the 9 scales to identify the specific groups of items that represent 9 different types of behaviors that can be addressed by Intervention

CEFI Scales

Attention Emotion Regulation Flexibility Inhibitory Control Initiation Organization Planning Self-Monitoring Working Memory

CEFI Characteristics

- Automated scoring and reporting includes intervention suggestions
- Scores are based on nationally representative normative sample that is representative of the US



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CEFI Full Scale and Treatment Scores

Figure 4.1. Illustration of Executive Function Weakness and Strengths on the CEFI (5–18 Years) Teacher Form

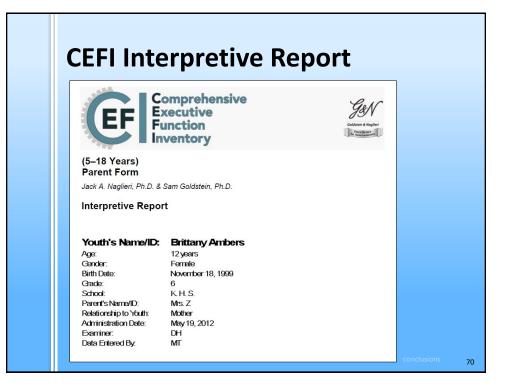
CEFI Scales	Standard Score	Difference From Youth's Average	Statistically Significant? (Yes/No)	Executive Function Strength/Weakness	90%/95% (circle one) Confidence Interval	Percentile Rank	Classification
Attention (AT)	95	-6.7	Yes	—		37	Average
Emotion Regulation (ER)	82 +	-19.7	Yes	Weakness	<u></u>	12	Low Average
Flexibility (FX)	112	10.3	Yes	Strength	_103_to118	79	High Average
Inhibitory Control (IC)	99	-2.7	No			47	Average
Initiation (IT)	120	18.3	Yes	Strength		91	Superior
Organization (OG)	99	-2.7	No		93 to 105	47	Average
Planning (PL)	101	-0.7	No		96_to 106	53	Average
Self-Monitoring (SM)	102	0.3	No		95 to 109	55	Average
Working Memory (WM)	105	3.3	No		99 to 111	63	Average
Sum of Standard Scores	915 ÷9	101.7	You	th's Average			
Note. Differences fro	m the Child	's/Youth's Averag	e are signi	ficant at p < .10.	L Contraction of the second se		

	CEFI: mhs.com/cefi		
U comprehensive Executive Function Inventory™ - CEFI - Mozilla Firefox Elle Edit View Higtory Bookmarks Yahool Iools Help		0 8 2	3
👍 Problem loading page 🛛 💥 Comprehensive Executive Function I	n × +		
e info.mhs.com/cefi	☆ マ C Soogle	₽ ♣ 1	ł
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Learn More If you are interested in learning more about the CEFI, fill out the form to request information like: • How this instrument compares to others • Progress Monitoring • Intervention Strategies • View case studies, sample reports or items	I would like to: (Check all that Apply) View Samples Items View Sample Reports View Case Studies See with a Consultant Set Up Training First Name * Last Name *		*
How to use an instrument	I am aand I work in a:*		
Setting up trainingsFurther questions or comments	Please Select - School District/Organization *		
	Email * Phone Number *		
	Preferred Contact Method *	J	

CEFI Scale Reliability						
CEFI Internal Reliability Coefficients for the Normative Sample						
	Parent (N = 1,396)	Teacher (N=1,400)	Self (N = 700)			
Full Scale	.99	.99	.97			
Attention	.93	.96	.86			
Emotion Regulation	.89	.93	.78			
Flexibility	.85	.90	.77			
Inhibitory Control	.90	.94	.80			
Initiation	.89	.93	.80			
Organization	.91	.94	.85			
Planning	.92	.96	.85			
Self-Monitoring	.87	.92	.78			
Working Memory	.89	.94	.83 68			

CEFI Interpretation

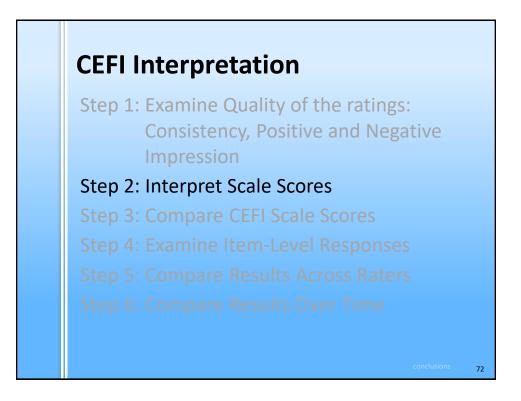
- Step 1: Examine Quality of the Ratings: Consistency, Positive and Negative Impression
- Step 2: Interpret Scale Scores
- Step 3: Compare CEFI Scale Scores
- Step 4: Examine Item-Level Responses
- Step 5: Compare Results Across Raters
- Step 6: Compare Results Over Time



Step 1: Impression Scales

A particular response style is indicated if the standard score is less than 76 (< 5% of the normative sample).

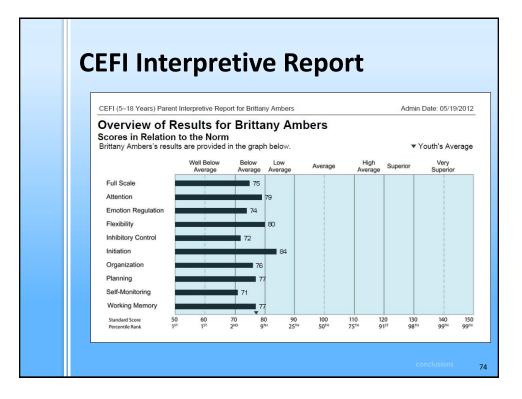
Scale	Interp	Interpretive Text			
ocale	Standard Score ≤ 75	Standard Score > 75			
Consistency Index	The rater responded in a different way to similar items. This rating pattern is not typical and should be further investigated.	The pattern of ratings is typical.			
Negative Impression Scale	The pattern of ratings may under- estimate the child's behavior. This rating pattern is not typical and should be further investigated.	Time to Completion is only for online			
Positive Impression Scale	The pattern of ratings may over- estimate the child's behavior. This rating pattern is not typical and should be further investigated.	administration me pattern of ratings is typical.			
Time to Completion	The rater spent considerably less time than is usual completing the CEFI.	The time the rater took to complete the CEFI was typical.			

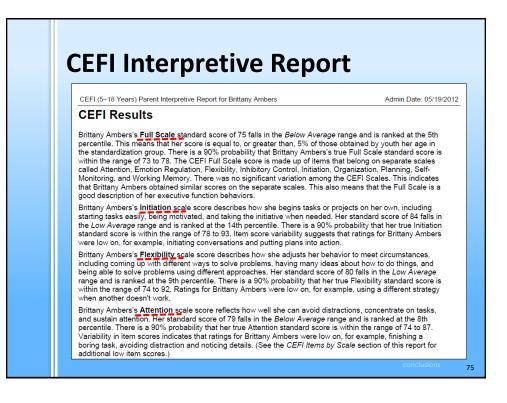


Step 2: Interpret Scale Scores

All scales are set at mean of 100, SD of 15Low scores mean poor EF

Table 4.3. Interpreta	tion Guidelines for Examining Scale Scores
Scale	Interpretation Guidelines
Full Scale	Reflects overall executive function. The Full Scale score is made up of 90 items from nine different areas that are conceptually related to executive function (i.e., Attention, Emotion Regulation, Flexibility, Inhibitory Control, Initiation, Organization, Planning, Self-Monitoring, and Working Memory). The CEFI Scales describe the content of the items for intervention purposes. If there is significant variation among the CEFI Scales, the Full Scale score will sometimes be higher and other times lower than scores on these scales. However, the Full Scale score is a good description of a child's/youth's executive function behaviors if there is no significant variation among the CEFI Scales.
Attention	Describes how well a child/youth can avoid distractions, concentrate on tasks, and sustain attention.
Emotion Regulation	Indicates the child's/youth's control and management of emotions, including staying calm when handling small problems and reacting with the right level of emotion.
Flexibility	Reflects a child's/youth's skill at adjusting behavior to meet circumstances, including coming up with different ways to solve problems, having many ideas about how to do things, and being able to solve problems using different approaches.





Intervention Strategies for Attention Intervention Strategies are provided for each of the 9 CEFI scales First, help the child overcome Problems with Instention do control of attention. Promote success via standing whenever possible. • Concepts such as attention, resistance to distraction, and control of attention. Promote success via small steps: • Promote success via small steps: • Child define tasks accurately. • Promote success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Promote success via small steps: • Circumvent reading whenever possible. • Allow for oral responses to tests. • Circumvent reading whenever possible. • Allow for oral responses to tests. • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Dromote success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via small steps: • Ensure success via smal		CEFI (12–18 Years) Self-Report Interpretive Report for Random2 Admin Date: 01/07
 First, help the child understand the nature of his or her attention problems, including: First, help the child understand the nature of his or her attention problems, including: Chorepts such as attention, resistance to distraction, and control of attention. Recognition of how attention affects daily functioning. Recognition of how attention affects daily functioning. Basic elements of the control program. Second, teachers and parents can help the child improve his or her motivation and persistence: Promote success via small steps. Promote success via strong whenever possible. Promote success via strong whenever possible. Circumvent reading whenever possible. Help the child to for attentory. Assess the child's knowledge of problems. Excurage the child to take responsibility for correcting his or her own work. Help the child to take responsibility for correcting his or her own work. Help the child to avoit: Excessive talking. Working fast with little accuracy. Giving up too easily. Working fast with little accuracy. Giving up too easily. Turning in sloppy, disorganized papers. Turning in sloppy, disorganized papers. Model and teach strategies that improve attention and concentration. Help the child to recognize when he or she is under- or over-attentive. 		Intervention Strategies for Attention
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Naglieri, J. A., & Pickering, E. B., Heiping Children Learn: Intervention Handouts for Use at School and at Home, Second Edition, 20 Batimore: Paul H. Brookes Publishing Co., Inc. www.brookespublishing.com. Used with the permission of the publisher.	Strategies are provided for each of the 9	 Recognition of how attention affects daily functioning. Recognition that the deficit can be overcome. Basic elements of the control program. Second, teachers and parents can help the child improve his or her motivation and persistence: Promote success via small steps. Ensure success at school and at home. Allow for oral responses to tests. Circumvent reading whenever possible. Teach rules for approaching tasks. Help the child define tasks accurately. Assess the child's knowledge of problems. Encourage that child to consider all possible solutions. Teach the child to use a correct test strategy. Discourage passivity and encourage independence. Do not rely too heavily on teacher-oriented approaches. Require the child to avoid: Excusse tailing. Working fast with little accuracy. Giving y too easily. Turming in sloppy, disorganized papers. Third, teachers and parents should give the child specific problem-solving strategies. Model and teach strategies that improve attention and concentration. Help the child to recognize when he or she is under- or over-attentive.

CEFI Interpretation

- Step 1: Examine Quality of the ratings: Consistency, Positive and Negative Impression
- Step 2: Interpret Scale Scores

Step 3: Compare CEFI Scale Scores

- Step 4: Examine Item-Level Responses
- Step 5: Compare Results Across Raters

Step 6: Compare Results Over Time

Step 3: Compare CEFI Scale Scores

Figure 4.1. Illustration of Executive Function Weakness and Strengths on the CEFI (5–18 Years Teacher Form

CEFI Scales	Standard Score	Difference From Youth's Average	Statistically Significant? (Yes/No)	Executive Function Strength/Weakness	90%/95% (circle one) Confidence Interval	Percentile Rank	Classification
Attention (AT)	95	-6.7	Yes	—	to	37	Average
Emotion Regulation (ER)	82 +	-19.7	Yes	Weakness		12	Low Average
Flexibility (FX)	112 +	10.3	Yes	Strength	<u>103</u> to 118	79	High Average
Inhibitory Control (IC)	99 +	-2.7	No			47	Average
Initiation (IT)	120 +	18.3	Yes	Strength		91	Superior
Organization (OG)	99 +	-2.7	No		93_to_105	47	Average
Planning (PL)	101	-0.7	No		96_to_106	53	Average
Self-Monitoring (SM)	102	0.3	No		95 to 109	55	Average
Working Memory (WM)	105	3.3	No		99_to_111	63	Average
Sum of Standard Scores	915 ÷9	101.7	You	th's Average			

CEFI Interpretation

- Step 1: Examine Quality of the ratings: Consistency, Positive and Negative Impression
- Step 2: Interpret Scale Scores
- Step 3: Compare CEFI Scale Scores
- Step 4: Examine Item-Level Responses

Step 5: Compare Results Across Raters

Step 6: Compare Results Over Time

Step 5: Between Rater Comparisons

Table 4.5. Critical Values (p < .10) Denoting Statistically Significant Differences Between

		ent to rent		her to cher	Pare	nt to cher	Parent to Self-Report	Teacher to Self-Report
Scale	5–11 Years	12–18 Years	5–11 Years	12–18 Years	5–11 Years	12–18 Years	12–18 Years	12–18 Years
Full Scale	5	5	4	4	4	4	8	5
Attention	10	10	7	7	9	9	13	11
Emotion Regulation	13	12	10	10	11	11	15	14
Flexibility	14	14	12	12	13	13	15	15
Inhibitory Control	12	12	9	9	11	10	14	13
Initiation	13	12	10	10	12	11	14	14
Organization	12	10	10	9	11	10	12	12
Planning	11	10	8	8	10	9	13	11
Self-Monitoring	14	12	11	11	13	11	15	14
Working Memory	13	12	9	9	11	11	11	13
							cor	iclusions on

CEFI Interpretation

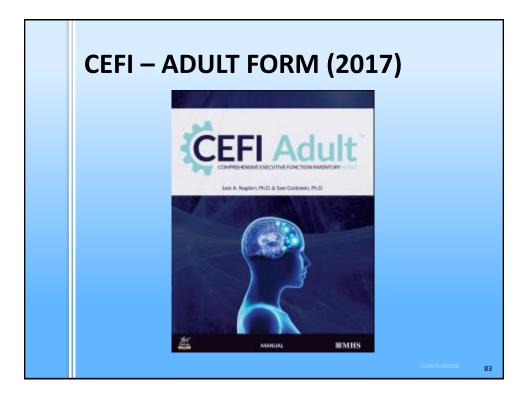
- Step 1: Examine Quality of the ratings: Consistency, Positive and Negative Impression
- Step 2: Interpret Scale Scores
- Step 3: Compare CEFI Scale Scores
- Step 4: Examine Item-Level Responses
- Step 5: Compare Results Across Raters

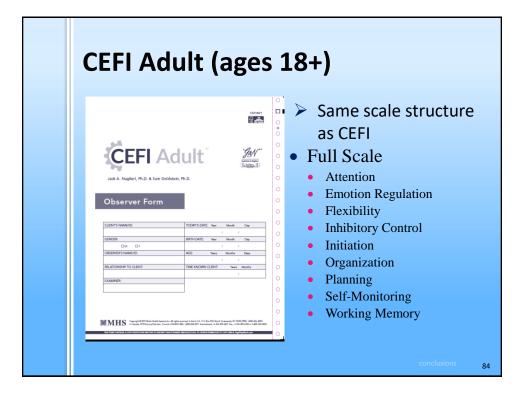
Step 6: Compare Results Over Time

Step 6: Compare Results Over Time

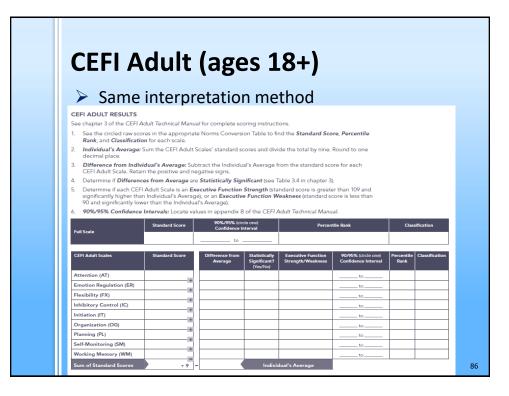
Determine if CEFI pre post scores differ significantly – but also if the post-test standard score is in the Average range or higher

Table 4.6. Critical V	/alues D	enoting	Statisti	cally Sig	gnificant	t Chang	e Over T	ime		
		Paren	t Form			Teache	er Form		Self-Rep	ort Form
	5–11	Years	12-18	Years	5–11	Years	12-18	Years	12–18	Years
Scale	р < .05	р < .10	p < .05	p < .10	р < .05	p < .10	p < .05	p < .10	р < .05	р < .10
Full Scale	6	5	5	5	4	4	4	4	8	6
Attention	12	10	11	10	9	7	9	7	16	13
Emotion Regulation	15	13	14	12	11	10	11	10	20	17
Flexibility	17	14	16	14	14	12	14	12	20	17
Inhibitory Control	15	12	14	12	11	9	11	9	19	16
Initiation	15	13	14	12	12	10	12	10	19	16
Organization	14	12	12	10	11	10	11	9	17	14
Planning	13	11	12	10	10	8	9	8	17	14
Self-Monitoring	17	14	14	12	13	11	12	11	20	17
Working Memory	15	13	14	12	11	9	11	9	18	15





C	EFI Adult (a	iges 18+)	
c	INSTRUCTIONS: Kead each stater then circle the letter under the wor it happened in the past four week through it and circle your new choic	Scales Scales Scales Scales Scales	arefully, then mark how often you saw
			conclusions 85

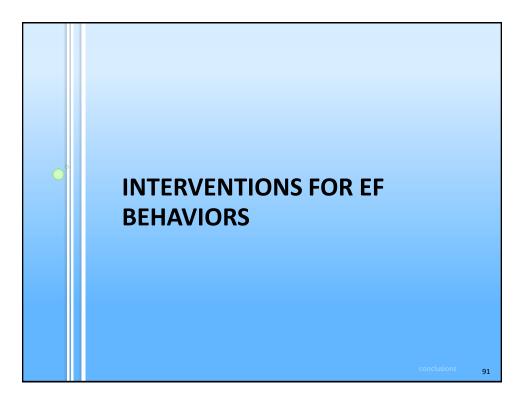


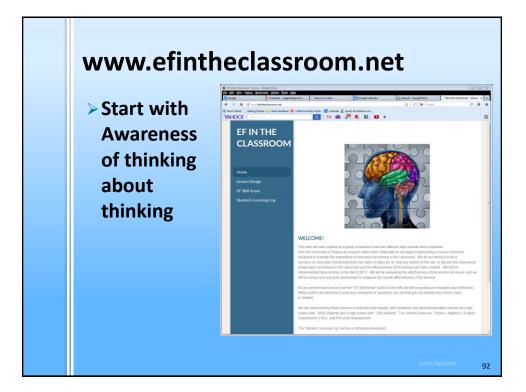
CFFI:Adult	Gent a fugue	Conprohensise Executive Euroction Insertory: Ad- vice. In combination with other information, result American, Emotion Regulation, Flashbilty, Inhib	CR11 Adult Self Report Interpreter M A ive Executive Function Inventory: bit SETA Adult % Self Report Form to used to quantify an indextual's and to the one of CR1 Adult heijs california an indextual's like of executive to the Second Se
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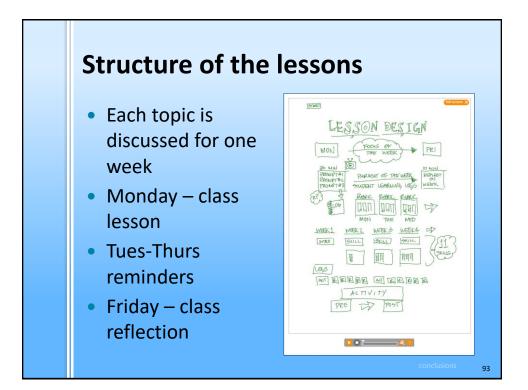
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CEFI Adu	ilt'			CEF1	I: Adult Self-Report		eport for John Sample dmin Date: 09/05/2016	CEFI: Adult		CEFt Adult Self-R	Report Interpretive Report for Admin Dat
							0000000	Summary of Res			
Overview	of Res	ults for J	lohn			_	- 71 ENT AMERICE	This section of the report provides a		hilt Scales. Some items may be liste	ed as above or below average
		Below Average	Below	tow	Hab	, in the second s	- chick in a count	the CEFE Adult Technical Manual or			
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Attention								Emotion Regulation, Flaxibility, Inh	bitory Control, Initiation, Organizat	tors made up of news that beyong o tion, Planning, Salf-Monitoring, and 25th percentile, and falls within the	Working Memory: Ratings on
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Inhibitory Control					10			detailed picture of his executive fu Executive Functioning Strengths			
Initiation Organization									Ibitory Control		
Planning											
Self-Monitoring Working Memory								Executive Functioning Weakness			
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		_		7						etion • Working Mem	nory
Standard Score	40 50	0 60	70 80	90 100	110 120	0 130	140 150	Attention Ini		etion • Working Mem	nory
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EFI Adult Online vs Paper									
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No differences across administration method									
ivo differences across administration method									
Table F.O. Maan Sta	ada and Co		(D			an Matha	da fan tha	0551	
Table F.2. Mean Star		ore Diff	rerences B	etween Ac	iministrati	on Metho	ds for the	CEFI	
Adult Self-Report Fo	rm	1						1	
Scale	Obt.	Cor.	On	ine	Paper-an	d-Pencil	d-ratio	F	, n
Scale						SD		(1, 53)	^p
Full Scale	.99	.99	102.9	12.4	102.7	12.6	-0.01	0.40	.531
Attention	.90	.96	101.9	11.3	101.7	12.0	-0.02	0.07	.793
Emotion Regulation	.97	.98	103.8	13.7	103.8	13.8	0.00	0.01	.938
Flexibility	.98	.99	103.1	13.3	103.3	13.5	0.01	0.29	.590
Inhibitory Control	.97	.98	101.5	13.5	101.2	13.6	-0.03	0.65	.423
1 141 41	.89	.95	102.4	12.3	102.1	11.9	-0.03	0.19	.662
Initiation	.95	.98	102.2	11.6	102.2	11.0	0.00	0.01	.942
Initiation Organization	.95	.98	102.7	11.6	102.3	12.1	-0.04	0.68	.412
									.856
Organization	.98		100.0	13.1	102.3	13.4	-0.03	0.65	.424
Organization Planning	.98	.99	102.6	1 13.1					

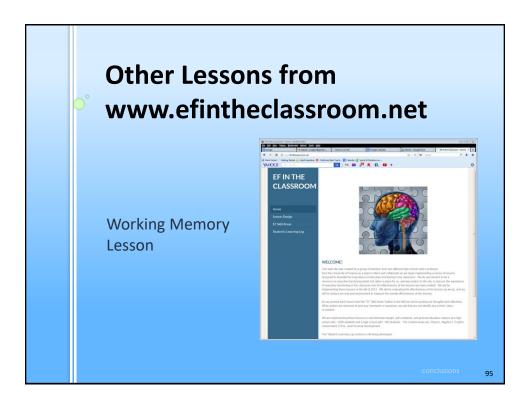
Table 8.9. CEFI Ad	ult Full Scale	Score Compari	ison Between	Black and W	hite Groups	
Form	ו	Black Sample	Matched White Sample	<i>d</i> -ratio	F (df)	р
	М	100.5	98.5		1.56	
Self-Report Form	SD	16.2	14.4	0.13	(1,352)	.21
	N	177	177		,	
	М	99.5	99.7	-0.01	0.02	.89
	60				((.09
Observer Form Vore. Guidelines for interp Positive <i>d</i> -ratio values indi	icate higher scores	in the Black sample.	ŗ	dium effect size =	, ,	
Vote. Guidelines for interp	N oreting Cohen's <i>d</i> a icate higher scores dult Full Scal	182 are as follows: small e s in the Black sample.	182 ffect size = 0.2; mee rison Betweer Matched White	dium effect size =	0.5; large effect si	ups
Vote. Guidelines for interp Positive <i>d</i> -ratio values indi	N reting Cohen's d a cate higher scores dult Full Scal	182 are as follows: small e s in the Black sample. e Score Compa Hispanic Sample	182 ffect size = 0.2; mee rison Betweer Matched White Sample	dium effect size =	0.5; large effect si	ups
Vore. Guidelines for interp ?ositive <i>d</i> -ratio values indi Table 8.10. CEFI A Form	N oreting Cohen's <i>d</i> a icate higher scores dult Full Scal	182 are as follows: small e s in the Black sample. e Score Compa Hispanic	182 ffect size = 0.2; mee rison Betweer Matched White	dium effect size =	o.5; large effect si od White Grou <i>F</i> (df) 0.95	ups P
Vote. Guidelines for interp Positive <i>d</i> -ratio values indi	N oreting Cohen's <i>d a</i> icate higher scores dult Full Scal n M	182 are as follows: small e in the Black sample. e Score Compa Hispanic Sample 101.0	182 ffect size = 0.2; mee rison Betweer Matched White Sample 99.4	dium effect size =	0.5; large effect si	
Vore. Guidelines for interp ?ositive <i>d</i> -ratio values indi Table 8.10. CEFI A Form	N reting Cohen's <i>d a</i> icate higher scores dult Full Scal n <u>M</u> SD	182 are as follows: small e in the Black sample. e Score Compa Hispanic Sample 101.0 16.8	182 ffect size = 0.2; mee rison Betweer Matched White Sample 99.4 13.6	dium effect size =	0.5; large effect si ad White Grou <i>F</i> (df) 0.95 (1,346)	ups p
Vore. Guidelines for interp ?ositive <i>d</i> -ratio values indi Table 8.10. CEFI A Form	N oreting Cohen's <i>d a</i> ccate higher scores dult Full Scal n M <u>SD</u> N	182 are as follows: small e in the Black sample. e Score Compa Hispanic Sample 101.0 16.8 174	182 ffect size = 0.2; mee rison Betweer Matched White Sample 99.4 13.6 174	dium effect size =	o.5; large effect si od White Grou <i>F</i> (df) 0.95	ups P







Interventions f	or EF Behaviors
CEFI Scales	Efintheclassroom.net
Attention	Sustained Attention
Emotion Regulation	Emotional Control
Flexibility	 Cognitive Flexibility
Inhibitory Control	Response Inhibition
 Initiation 	Task Initiation
 Organization 	 Organization
Panning	Planning
Self-Monitoring	Response Inhibition
Working Memory	Working Memory
	 Goal Directed Persistence
	conclusions 94





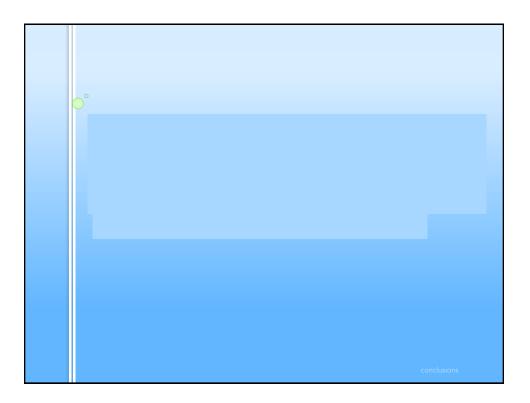
What is Working Memory

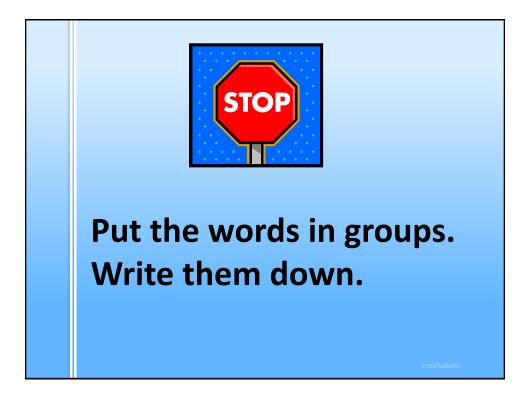
- Georgiou, Das, and Hayward (2008) described working memory as the capacity of the individual to store information for a short period of time and manipulate it using a phonological loop and visual– spatial sketchpad (Baddeley & Hitch, 1974)
- The visual-spatial sketchpad is described as a mental image of visual and spatial features (Engle & Conway, 1998)
- The phonological loop refers to retention of information from speech-based systems that are particularly important when order of information is required (Engle & Conway, 1998)

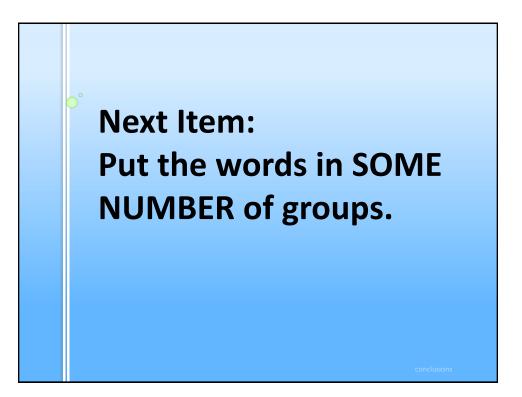
Working Memory Game

- You will see a series of words presented at 2 per second. The words are from two different categories. For example, Man -Hammer - Boat - Woman, would be organized into Man and Woman (people), Hammer and Saw (tools)
- When you see the STOP sign, that is the time for you will write the words down in two columns.

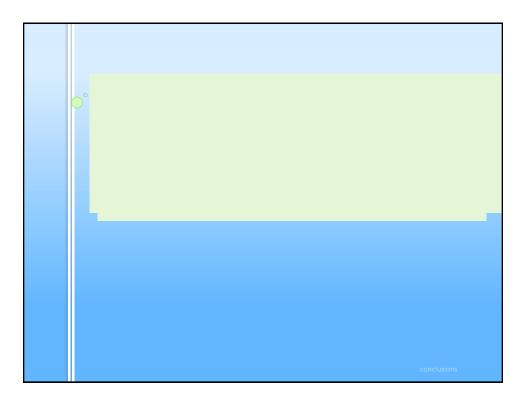


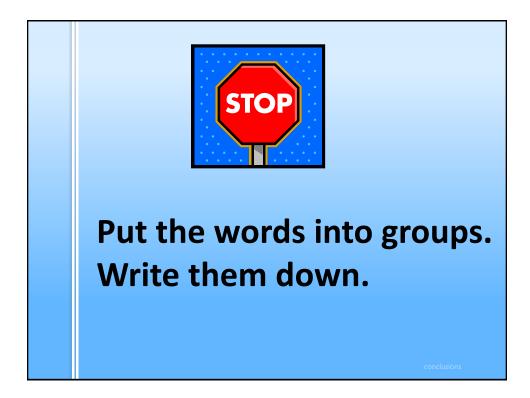




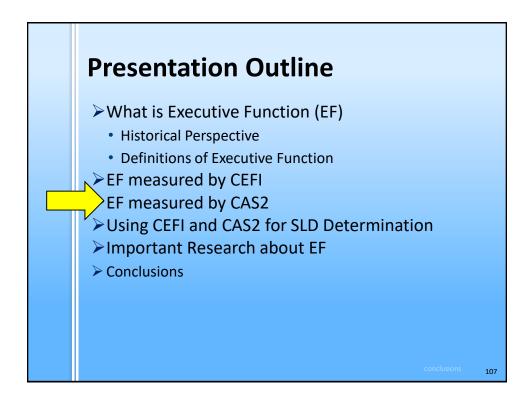


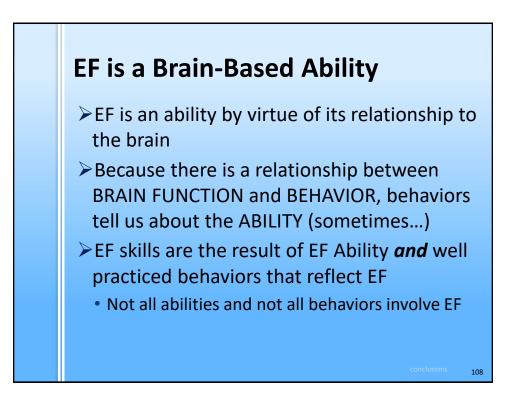


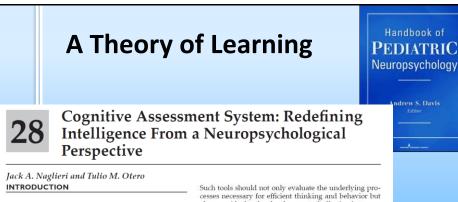












Pediatric neuropsychology has become an important field for understanding and treating developmental, psychiatric, psychosocial, and learning disorders. By addressing both brain functions and environmental factors intrinsic in complex behaviors, such as thinking, reasoning, planning, and the variety of executive capacities, clinicians are able to offer needed services to children with a variety of learning, psychiatric, and developmental disorders. Brain-behavior relationships are investigated by neuropsychologists by interpreting several aspects of an individual's cognitive, language, emotional, social, and motor behavior. Standardized instruments are used by neuropsychologists to collect information and derive inferences about brain-behavior relationships. Technology, such as magnetic resonance imaging (MRI), functional MRI (FMRI), positron emission tomography, computerized tomography, and diffusion tensor imaging, has reduced the need for neuropsychological tests to localize and access brain damage. Neuropsychological tests, however, Such tools should not only evaluate the underlying processes necessary for efficient thinking and behavior but also provide for the development of effective interventions and address the question of prognosis.

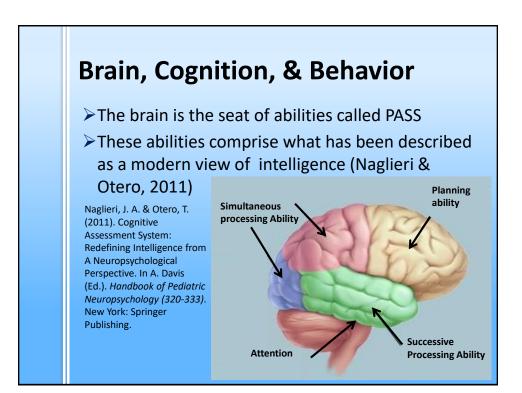
FROM NEUROPSYCHOLOGY THEORY TO ASSESSMENT

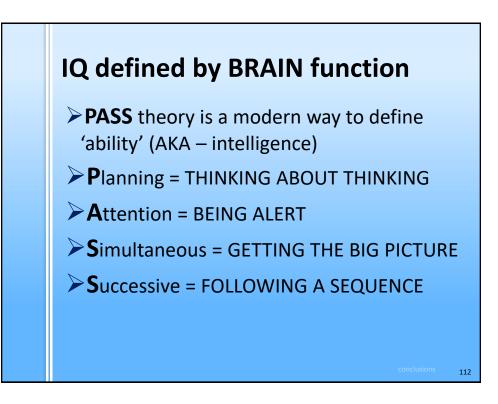
Luria's theoretical account of dynamic brain function is perhaps one of the most complete (Lewandowski & Scott, 2008). Luria conceptualized four interconnected levels of brain-behavior relationships and neurocognitive disorders that the clinician needs to know: the structure of the brain, the functional organization based on structure, syndromes and impairments arising in brain disorders, and clinical methods of assessment (Korkman, 1999). His theoretical formulations, methods, and ideas are articulated in works such as *Higher cortical functions in man* (1966, 1980) and *The Working Brain* (1973). Luria viewed the brain as a functional mosaic, the parts of which interact in dif-

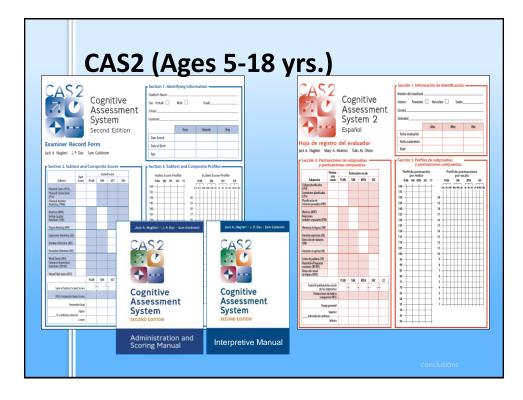
Cognition or Knowled

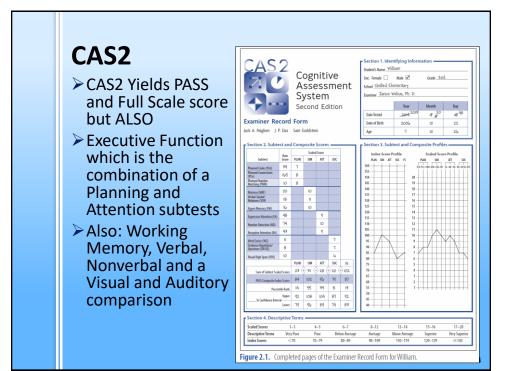
- What does the student have to know to complete a task?
 - This is dependent on instruction
- How does the student have to think to complete a task?
 - This is dependent on the brain – PASS

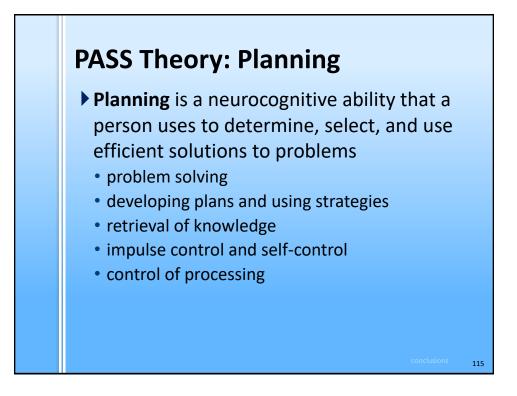


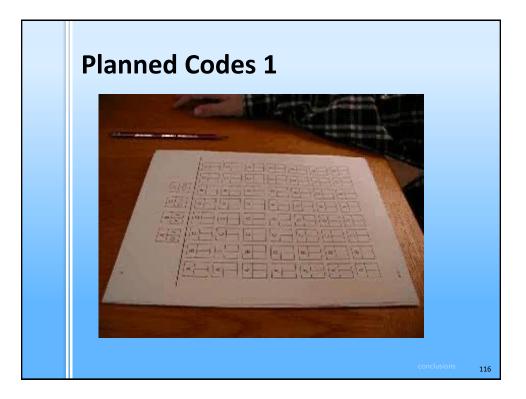


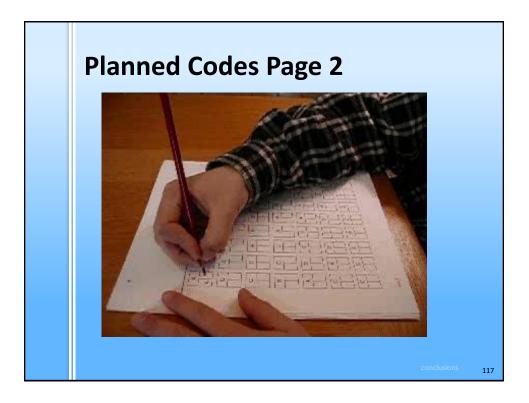


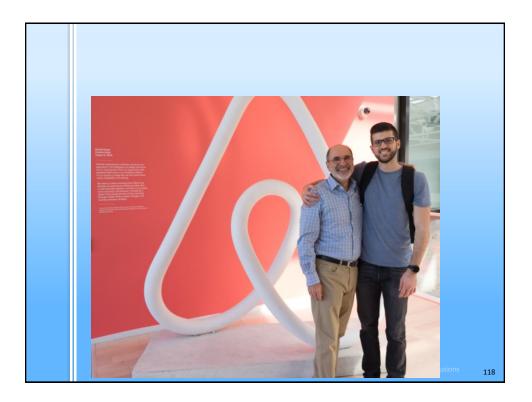


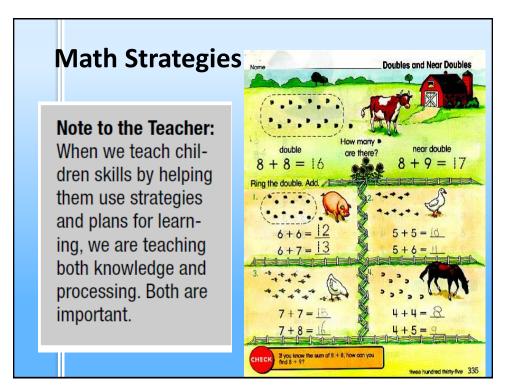


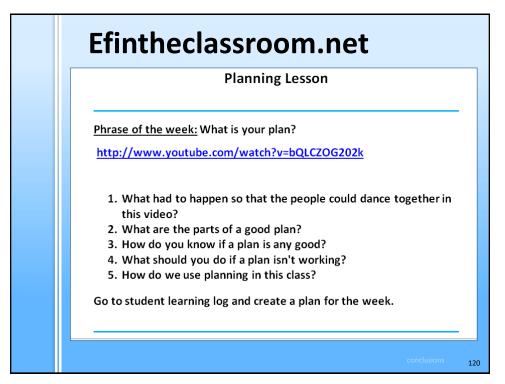








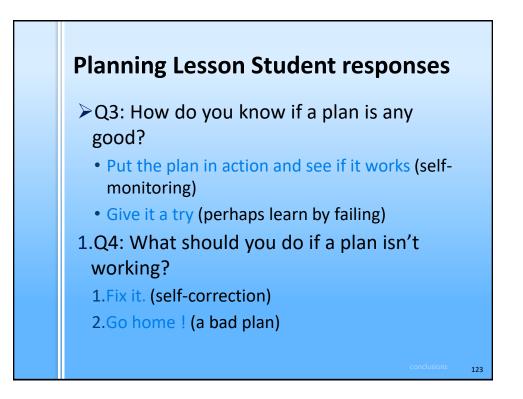


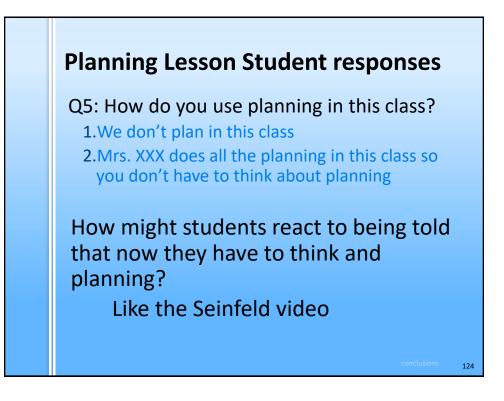


Antwerp train Station (2009)



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This Planning Lesson

This lesson brings to light the important distinction between planning over a long time (what was just shown) and real time planning

EF Instruction

We use posters like this one to remind the students of the importance of PLANNING



ons 126

125

Encourage Planning Helping Children Learn Helping Children Learn Intervention Handouts Intervention Handouts for Us in School and at Home for Use in School and 2nd at Home, Second Edition By Jack A. Naglieri, Ph.D., & Eric B. Pickering, Ph.D., Jack A. Naglieri Spanish handouts by Tulio Eric B. Pickering Otero, Ph.D., & Mary Moreno, Ph.D. 127

Step 1 – Talk with Students

How to Be Smart: Planning

When we say people are smart, we usually mean that they know a lot of information. But being smart also means that someone has a lot of ability to learn new things. Being smart at learning new things includes knowing and using your *thinking abilities*. There are ways you can use your abilities *better* when you are learning.

What Does Being Smart Mean?

One ability that is very important is called *Planning*. The ability to *plan* helps you figure out *how to do things*. When you don't know how to solve a problem, using Planning ability will help you figure out how to do it. This ability also helps you control what you think and do. It helps you to stop before doing something you shouldn't do. Planning ability is what helps you wait until the time is right to act. It also helps you make good decisions about what to say and what to do.

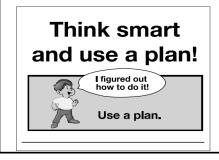
Step 1 – Talk with Students

How Can You Be Smarter?

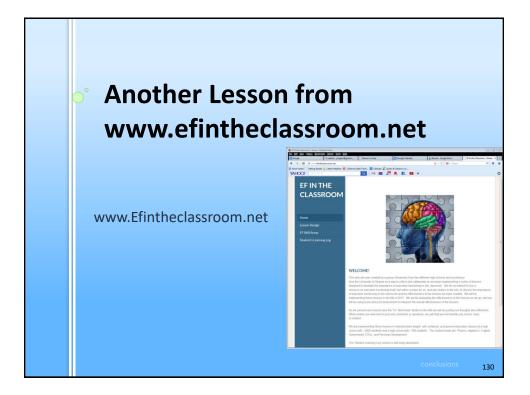
You can be smarter if you PLAN before doing things. Sometimes people say, "Look before you leap," "Plan your work and work your plan," or "Stop and think." These sayings are about using the ability to plan. When you stop and think about *how* to study, you are using your ability to plan.

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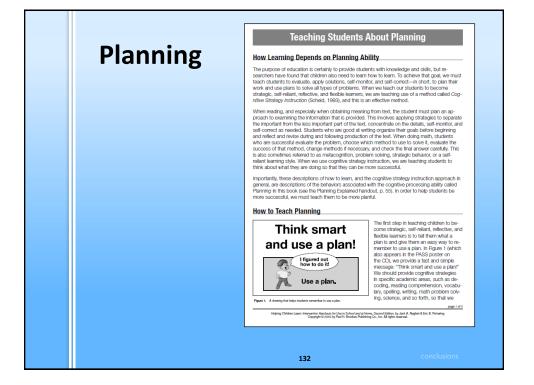
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Interventions f	or EF Behaviors
CEFI Scales	Efintheclassroom.net
Attention	Sustained Attention
Emotion Regulation	Emotional Control
Flexibility	 Cognitive Flexibility
Inhibitory Control	Response Inhibition
Initiation	Task Initiation
 Organization 	 Organization
Panning	 Planning
Self-Monitoring	Response Inhibition
Working Memory	Working Memory
	Goal Directed Persistence
	conclusions 131



Planning

Planning Facilitation for Math Calculation

Math calculation is a complex activity that involves recalling basic math facts, following procedures, working carefully, and checking one's work. Math calculation requires a careful (i.e., planful) approach to follow all of the necessary steps. Children who are good at math calculation can move on to more difficult math concepts and problem solving with greater ease than those who are having problems in this area. For children who have trouble with math calculation, a technique that helps them approach the task planfully is likely to be useful. Planning facilitation is such a technique.

Planning facilitation helps students develop useful strategies to carefully complete math problems through discussion and shared discovery. It encourages students to think about how they solve problems, rather than just think about whether their answers are correct. This helps them develop careful ways of doing math.

How to Teach Planning Facilitation

Planning facilitation is provided in three 10-minute time periods: 1) 10 minutes of math, 2) 10 minutes of discussion, and 3) 10 more minutes of math. These steps can be described in more detail:

Step 1: The teacher should provide math worksheets for the students to complete in the first 10-minute session. This gives the children exposure to the problems and ways to solve them. The teacher gives each child a worksheet and says, "Here is a math worksheet for you to do. Please try to get as many of the problems correct as you can. You will have 10 minutes." Slight variations on this instruction are okay, but do not give any additional information.

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

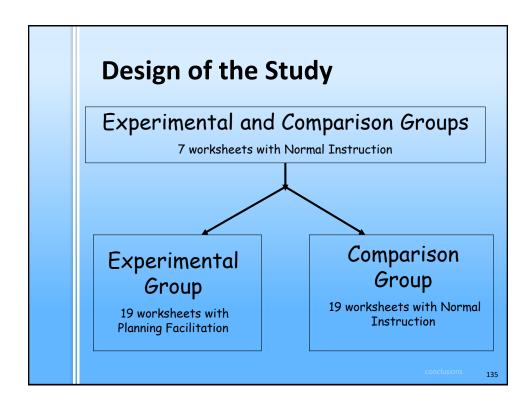
Journal of Learning Disabilities 44(2) 184–195 @ Hammill Institute on Disabilities 2011 Reprints and permission: agepub.com/journalsPermissions.nav DOI: 10.1177/0022219410391190 http://journaloflearningdisabilities .sagepub.com SAGE

Jackie S. Iseman¹ and Jack A. Naglieri¹

Abstract

The authors examined the effectiveness of cognitive strategy instruction is Successive) given by special education teachers to students with ADHD experimental group were exposed to a brief cognitive strategy instructind development and application of effective planning for mathematical comp standard math instruction. Standardized tests of cognitive processes a students completed math worksheets throughout the experimental ph Johnson Tests of Achievement, Third Edition, Math Fluency and Wechsle Numerical Operations) were administered pre- and postintervention, a follow-up. Large pre-post effect sizes were found for students in the exp math worksheets (0.85 and 0.26), Math Fluency (1.17 and 0.09), and Nur At I year follow-up, the experimental group continued to outperform t students with ADHD evidenced greater improvement in math worksi (which measured the skill of generalizing learned strategies to other sin when provided the PASS-based cognitive strategy instruction.





Instructional Sessions	
 Math lessons were organized into "instructional sessions" delivered over 13 consecutive days Each instructional session was 30-40 minutes Each instructional session was comprised of three segments as shown below 	
10 minutes 10-20 minutes 10 minutes	
10 minute math worksheet Planning Facilitation 10 minute math or Normal worksheet Instruction	
conclusions 13	.36

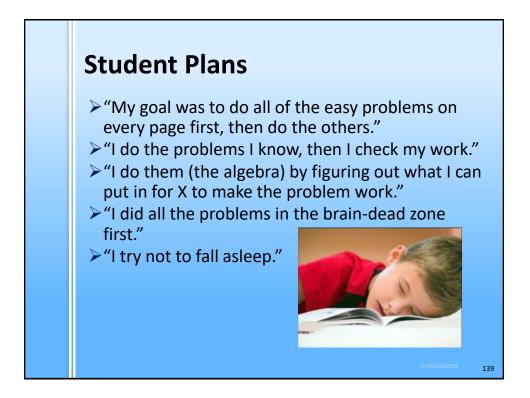
Normal Instruction and Planning Facilitation Sessions

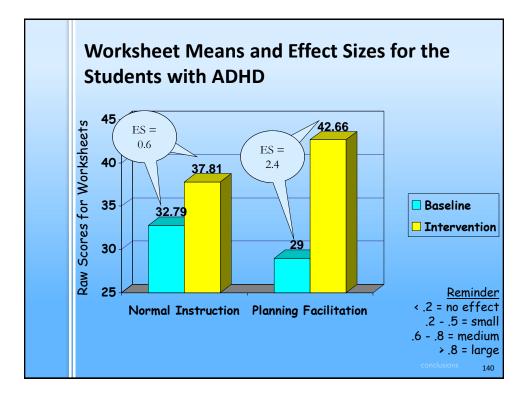
- Normal Instruction
 - 10 minute math worksheet
 - 10 20 of math instruction
 - 10 minute math worksheet
- Planning Facilitation
 - 10 minute math worksheet
 - 10 minutes of planning facilitation
 - 10 minute math worksheet

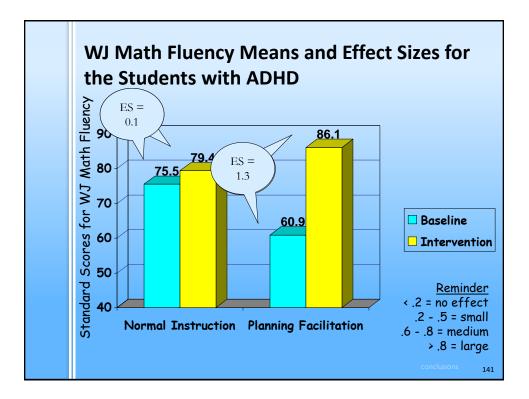
Planning Strategy Instruction

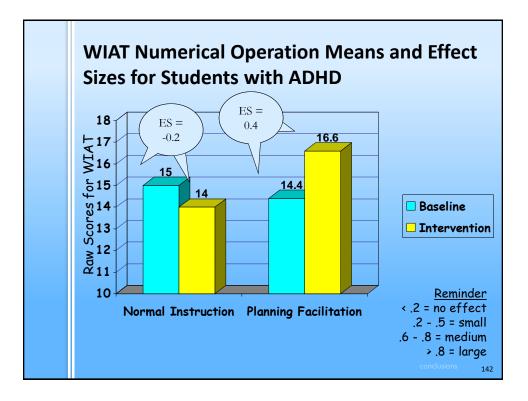
- Teachers facilitated discussions to help students become more self-reflective about use of strategies
- Teachers asked questions like:
 - What was your goal?
 - Where did you start the worksheet?
 - What strategies did you use?
 - How did the strategy help you reach your goal?
 - What will you do again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

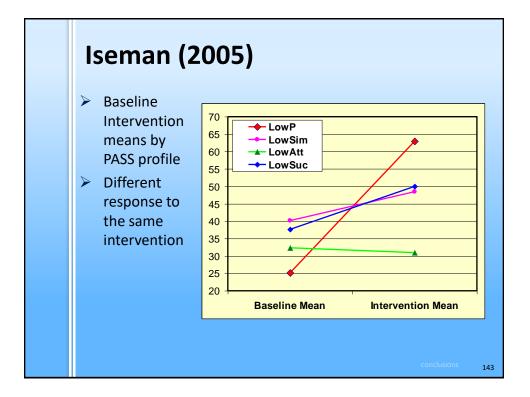
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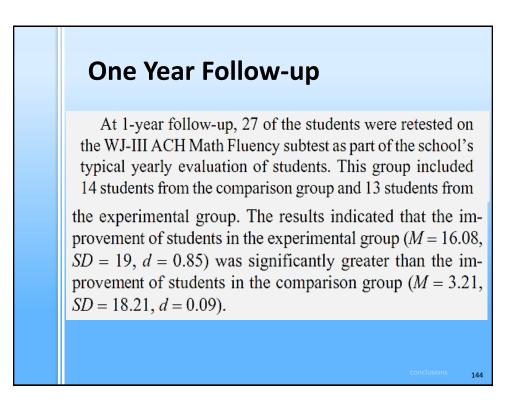






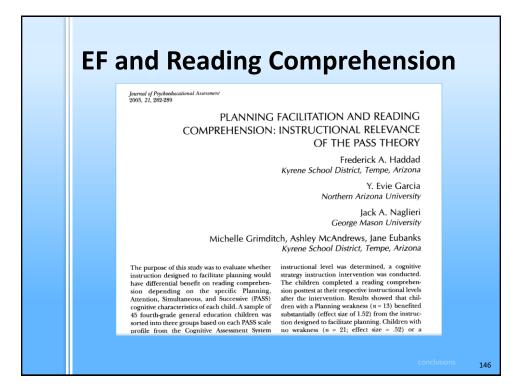


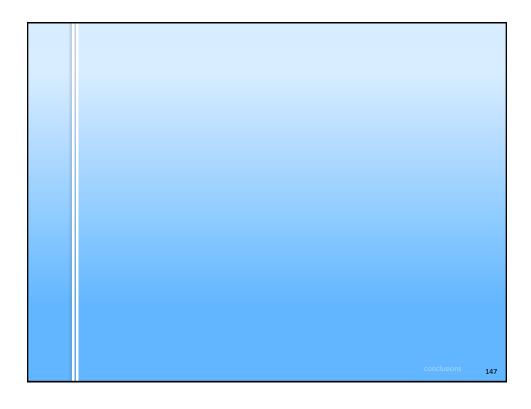




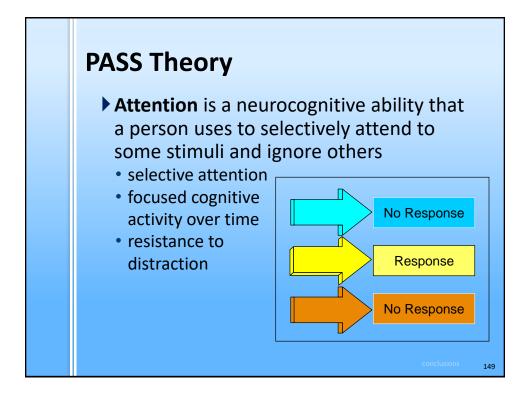
Instructional Implications

- Planning Strategy Instruction is easily implemented in the classroom and can be used to improve Executive Functioning
- The method yields substantial results within a minimal of time (10 half-hour sessions over 10 days)
- Planning Strategy Instruction can be applied in math as well as other content areas (e.g., reading comprehension)

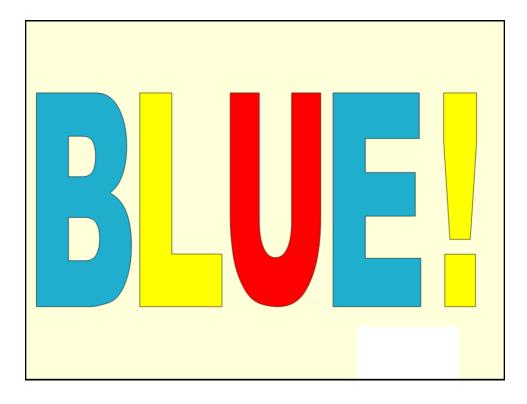




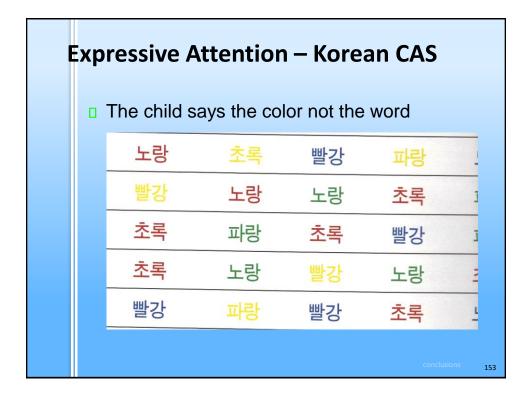


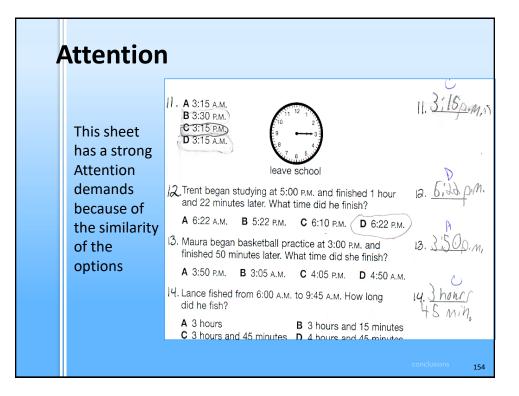


Attention Test Instructions: You will see words like RED Your task: say the COLOR (green) not the word (red)							
	RED	BLUE	GREEN	YELLOW			
	YELLOW		RED				
	RED	YELLOW	YELLOW	GREEN			
	BLUE		RED	BLUE			
	GREEN	YELLOW		YELLOW			
READY ?							



Expressi	ve Attenti	on - Italia	no
ROSSO	BLU	VERDE	GIALLO
GIALLO	VERDE	ROSSO	BLU
ROSSO	GIALLO	GIALLO	VERDE
BLU	VERDE	ROSSO	ROSSO
VERDE	GIALLO	BLU	GIALLO
			conclusions 152





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Efintheclassroom.net Attention Lesson

- Start by making students aware of what attention is ...
- View Attention video from Apollo Robbins
- Then provide Discussion
 - What did you learn from this video?
 - How can you attend better?
 - How can you resist distractions better?
- Then an Assignment Make a list of times when you did well, and not so well, paying attention, noticing details, and resisting distractions.

Efintheclassroom.net Attention Lesson

Sustained Attention Lesson

Phrase of the week: Where is your focus?

Video: http://www.youtube.com/watch?v=jKCT-simmBo&noredirect=1

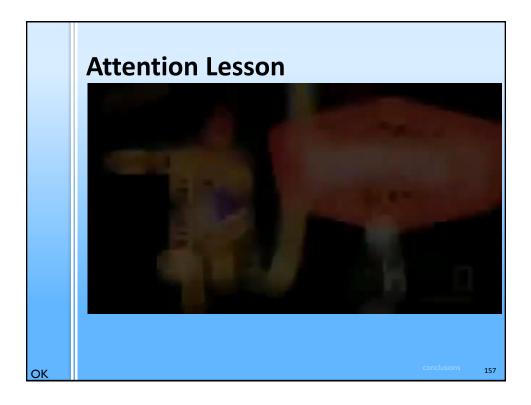
Q1: Why do you think you were tricked by this video?

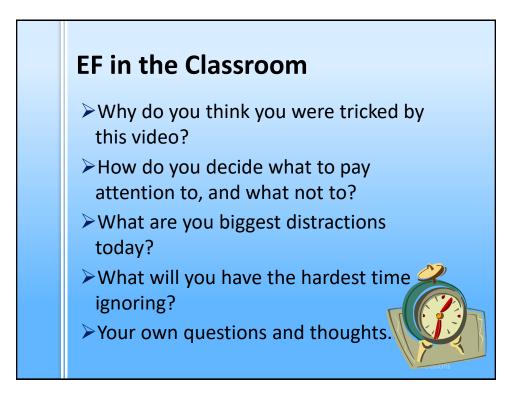
Q2: How do you decide what to pay attention to, and what not to, in this class?

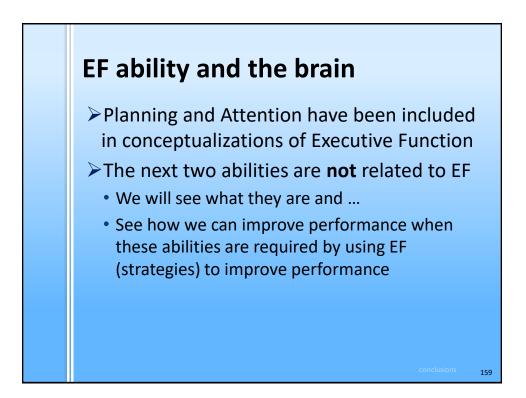
Q3: What are you biggest distractions in class? What will you have the hardest time ignoring?

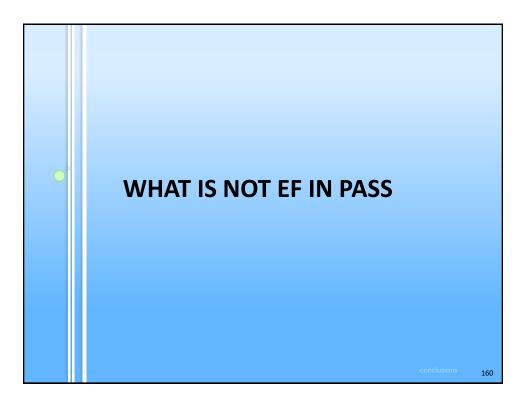
Hand out Learning Logs:

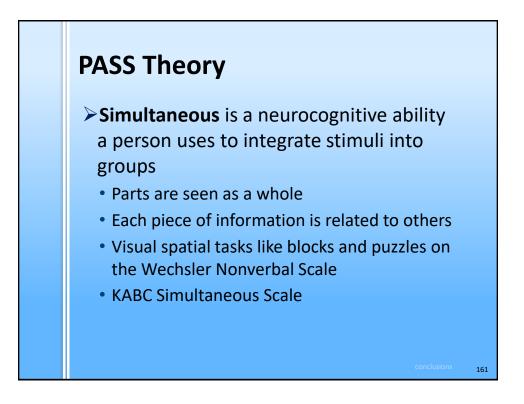
Students go to SA section and create a list they (or the class as a whole) will try to ignore this week.

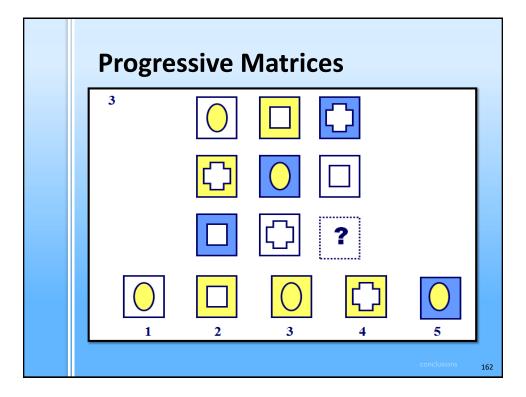


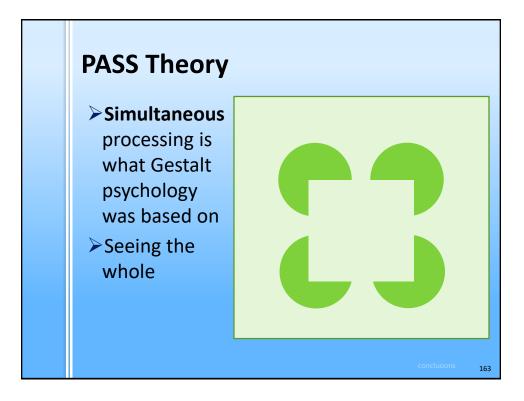


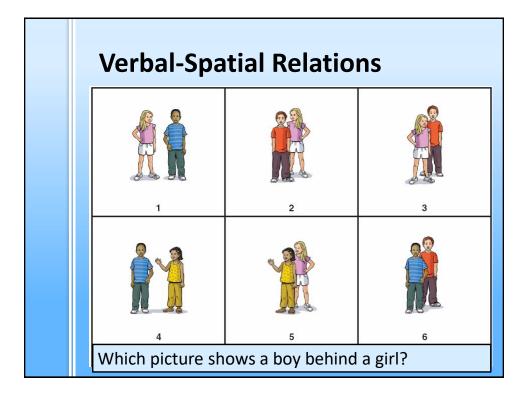


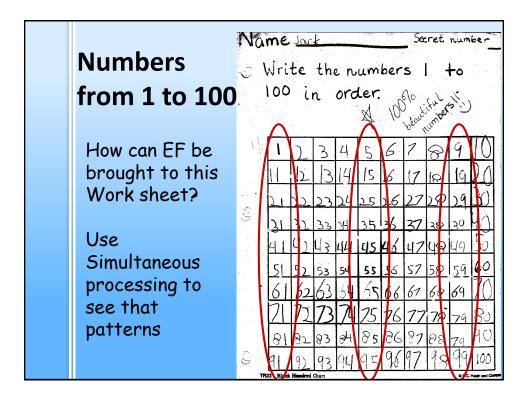


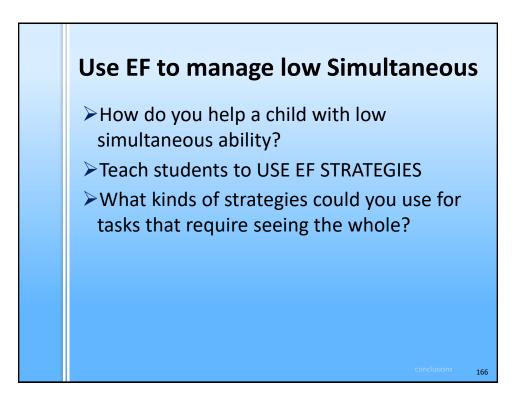


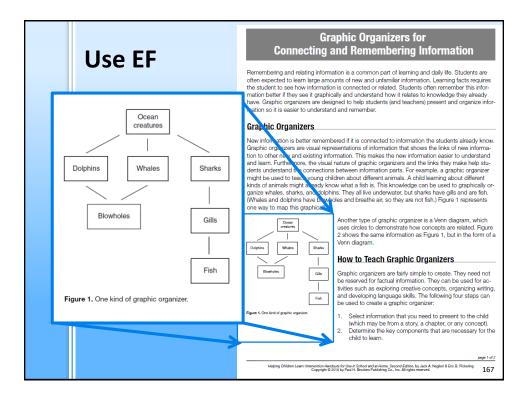


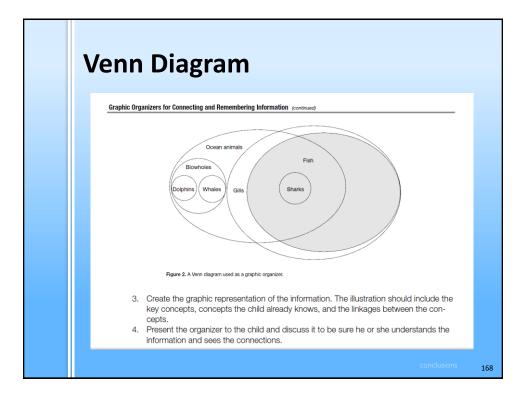


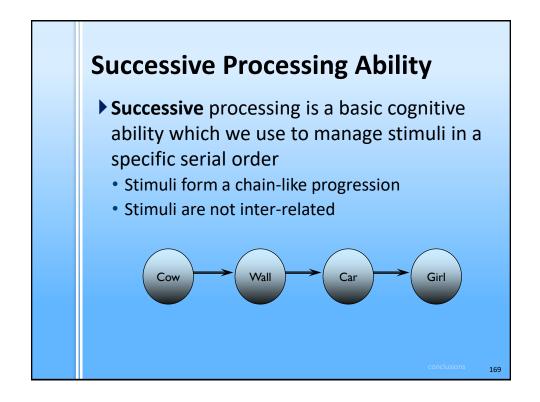


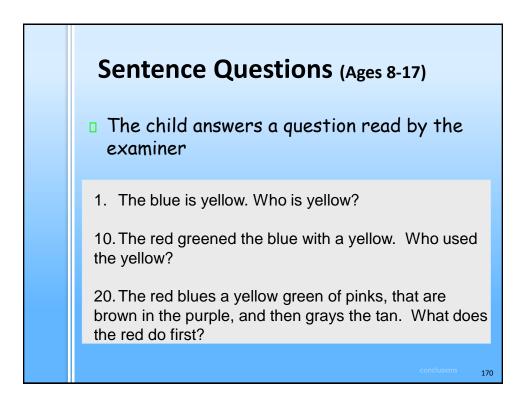


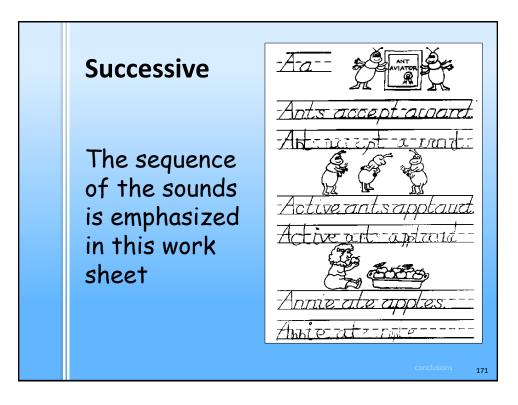












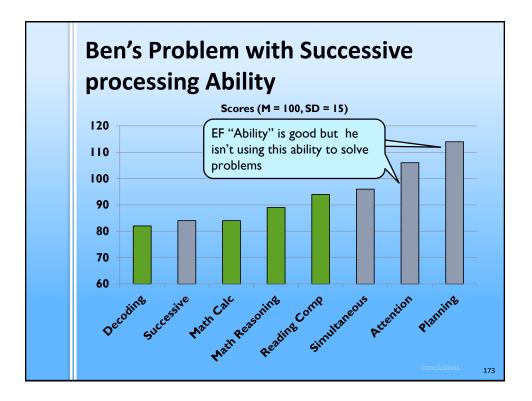
32	Helping Children Learn
Ben's Problem with Successive Processing	



Ben was an energetic but frustrated third-grade student who liked his teachers, was popular with his peers, and fit in well socially at school. However, Ben said he did not like school at all, particularly schoolwork. Ben was good at turning in all of his work on time, and he worked hard, but he earned poor grades. He appeared to be getting more and more frustrated at school.

In general, Ben struggled to perform well because he had a lot of trouble following directions that were not written down, his writing often did not make sense, and he did not appear to comprehend what he read. Ben's teachers noticed that when directions for assignments and projects were given orally in class, he often only finished part of the task. Ben's teacher described an assignment in which students had to collect insects, label them, organize them into a collection, and then give a brief presentation about each in-

sect. Unlike any other student, Ben chose to make the labels for the insects first and then go look for the insects. He found only a few of the insects he had made labels for, and when he put them in the collection, they were not in the order that had been specified. He also had trouble with the spelling of the scientific names of the insects and made many errors in the sequence of letters in the words.



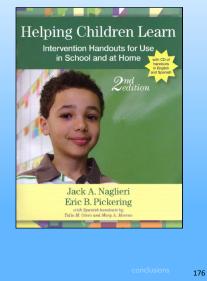
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psv	ychological proc	esses'	Diff		
	Planning Attention Simultaneous	114 106 96	14 6 -4		
	Successive PASS Mean	84 100	-16		
				conclusions	174

Ben's Problem with Successive Ability

- Ben has difficulty whenever ANY task requires sequencing
 - Academic or ability tests
 - Visual or auditory tests
 - Math or spelling or reading
 - Tasks that require memory of sequences
- How do we help him learn better?

Teach Children about their Abilities

- Helping Children Learn Intervention Handouts for Use in School and at Home, Second Edition By Jack A. Naglieri, Ph.D., & Eric B. Pickering, Ph.D.,
- Spanish handouts by Tulio Otero, Ph.D., & Mary Moreno, Ph.D.



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Use EF with Sequencing Tasks

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You will be able to do more if you remember to use a plan. An easy way to remember to use a plan is to look at the picture "Think smart and use a plan!" (Figure 1). You should always use a plan for reading, vocabulary, spelling, writing, math problem solving, and science.

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Ben's Problem with Successive Ability

Teach him to use his strength in Planning

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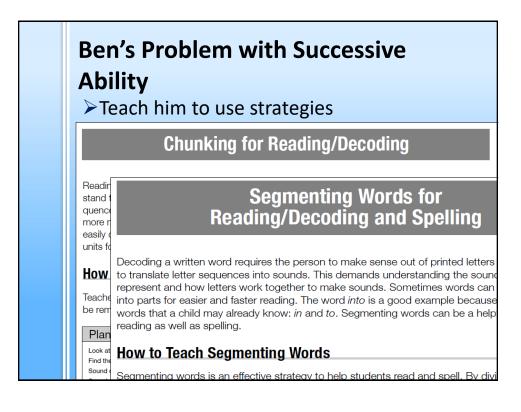
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Ben's Problem with Successive Ability

Teach him to recognize sequences

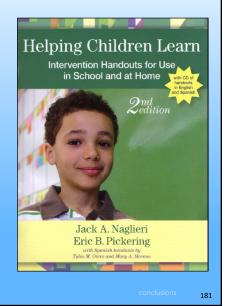
How to Teach Successive Processing Ability

- 1. Teach children that most information is presented in a specific sequence so that it makes sense.
- 2. Encourage children by asking, "Can you see the sequence of events here?" or "Did you see how all of this is organized into a sequence that must be followed?"
- 3. Remind the students to think of how information is sequenced in different content areas, such as reading, spelling, and arithmetic, as well as in sports, playing an instrument, driving a car, and so forth.
- 4. Teach children that the sequence of information is critical for success.
- 5. Remind students that seeing the sequence requires careful examination of the serial relationships among the parts.



Teaching Children to use EF

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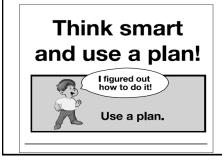
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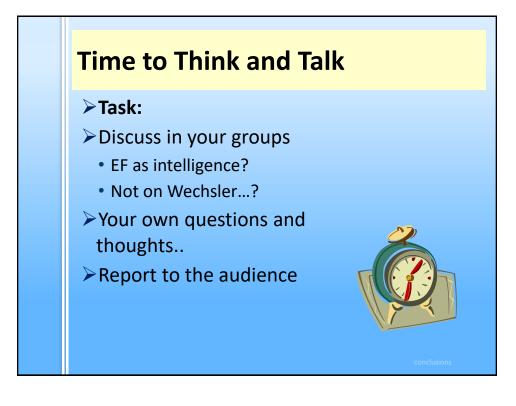
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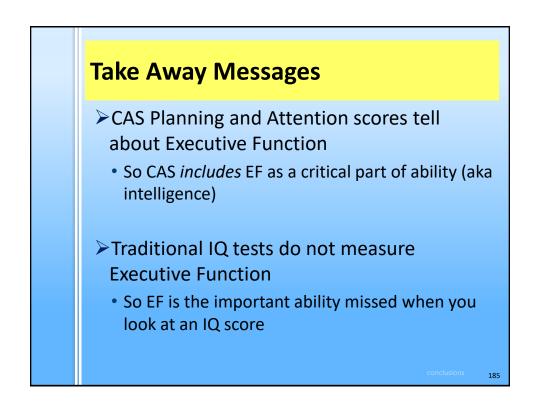
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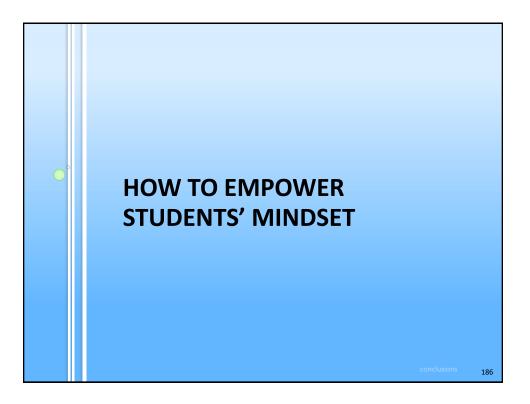
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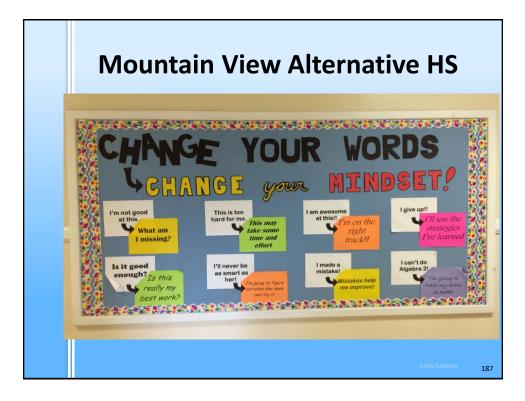


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Two Mindsets



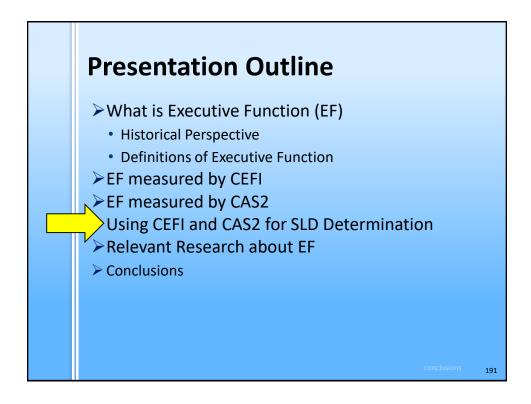
Fixed mindset: ◆Effort will not make a difference ◆You either get it or you don't

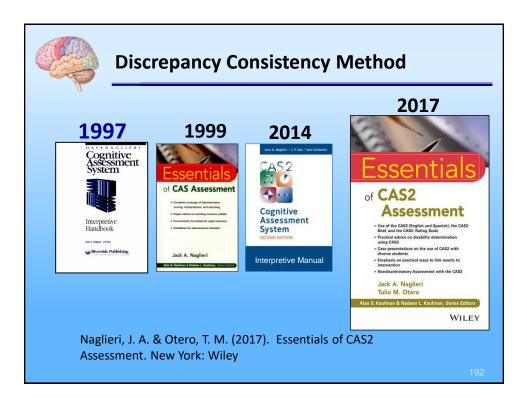


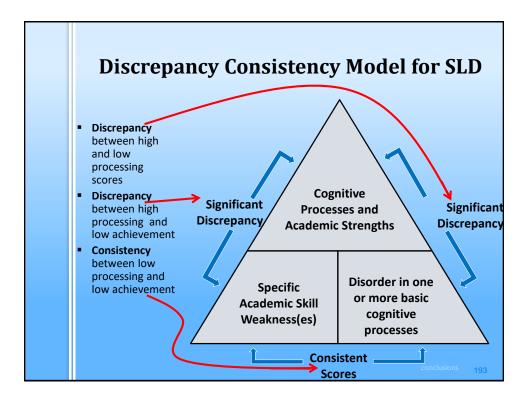
Growth mindset: ◆Enjoy effort and the process of learning

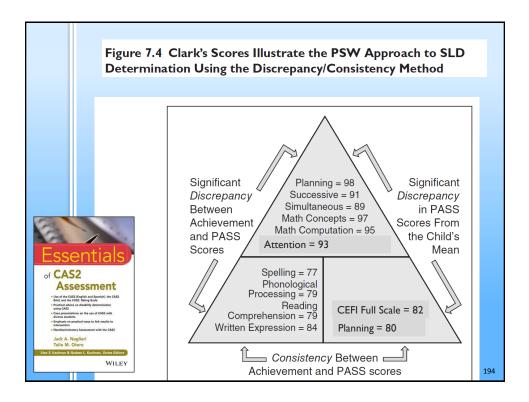
You can always grow and learn

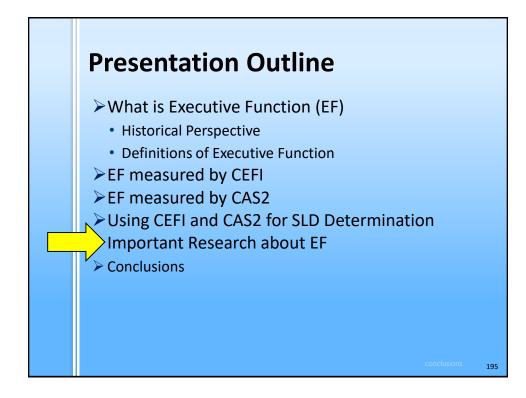
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Jack A. Naglieri & Kathleen M. Kryza - Co	pyright @	2015			Jack A. Naglieri & Kathleen M. Kryza - Copyrig	ht © 2	015		
Date					Name Date				
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give can help us know your thoughts about how you lear carefully and circle the number under the word that tells w 1 I don't give up easily. 2 When things get hard I say, "I Can do it" 3 When I fail I try harder until I get it done. 4 I believe that I can learn from my mistakes. 5 I think I can do almost anything if I try hard enough. 6 When I don't understand something I give up. 7 I do not like to be challenged. 8 When work is hard I think, "I can not do it."	Sonreitme	40. 40. 55 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	43 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	learning. Please read every question carefully and circle the mithat tells what you have observed about your child. 1 He/she doesn't give up easily. 2 When things get hard he/she says, "I can do it!" 3 Failure leads him/her to try harder until the task is finished. He/she views failure as an important part of learning. 5 He/she believes that you can do anything if you try hard enough 6 He/she is afraid of failure. 7 When things get hard he/she avoids the work. 8 He/she believes that hard work usually does not pay off.		1 1 1 1 1 1 1 1 1	PH481 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	rd 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
give can help us know your thoughts about how you lear carefully and circle the number under the word that tells w 1 I don't give up easily. 2 When things get hard say, 'I Can do it" 3 When fill I'thy harder until I get it done. 4 I believe that I can learn from my mistakes. 5 I think I can do almost anything if I try hard enough. 6 When I don't understand something I give up. 7 I do not like to be challenged.	A Please what you so that you	468411178 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	43 3 3 3 3 3 3 3 3 3 3 3 3 3 3	learning. Please read every question carefully and circle the mithat tells what you have observed about your child. 1 He/she doesn't give up easily. When things get hard he/she says, "I can do it!" Silver teads him/her to try harder until the task is finished. He/she believes that you can do anything if you try hard enough He/she believes that ure. When things get hard he/she avoids the work.	Contentine 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1	**************************************	rd 3 3 3 3 3 3 3 3 3 3 3 3 3 3











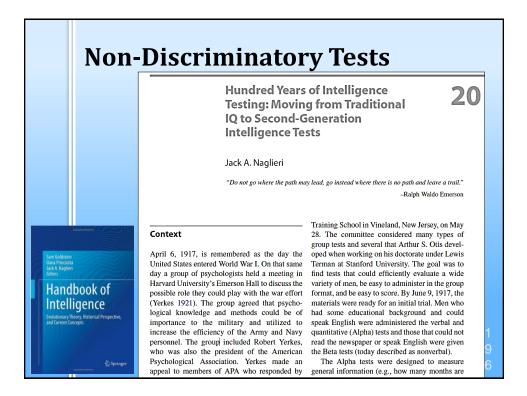
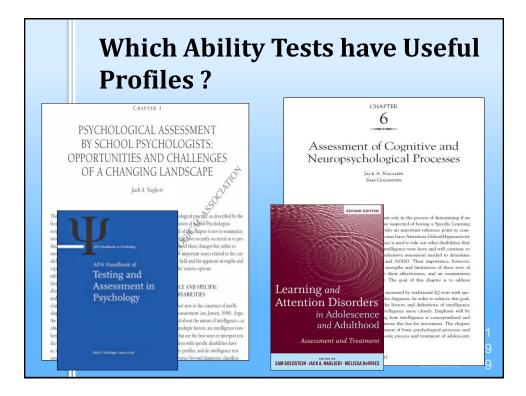
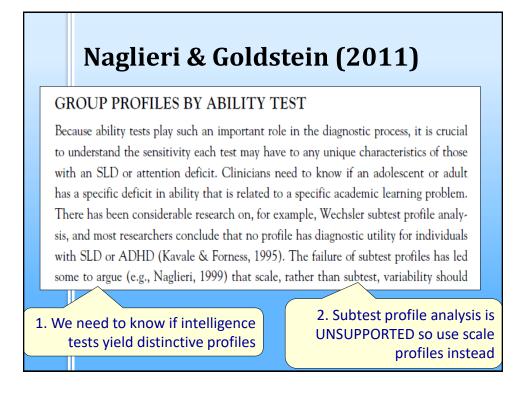
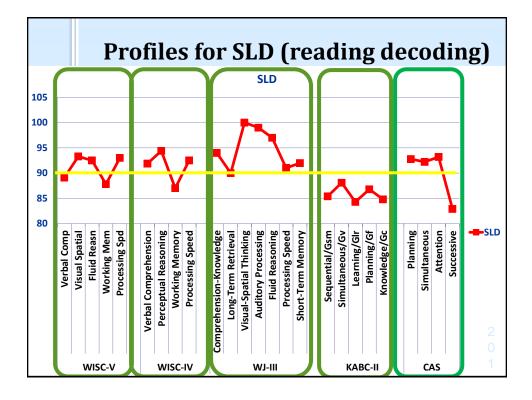


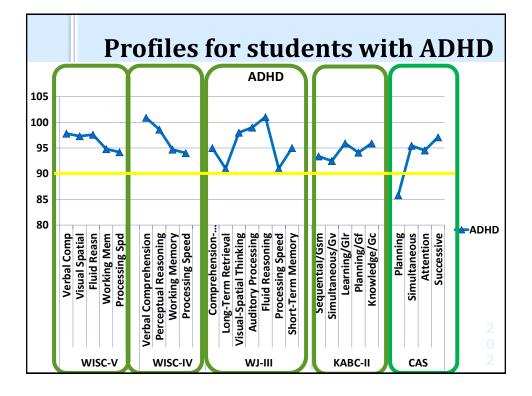
	Table 1.6 Standard Score Mean Differences by Race on T Nontraditional Intelligence Tests	raditional and
	Test	Difference
	Traditional IQ Tests	
	SB-IV (matched samples)	12.6
	WISC-IV (normative sample)	11.5
	WJ-III (normative sample)	10.9
	WISC-IV (matched samples)	10.0
	Nontraditional Tests	
	K-ABC (normative sample)	7.0
	K-ABC (matched samples)	6.1
	KABC-II (matched samples)	5.0
	CAS2 (normative sample)	6.3
100	CAS (demographic controls of normative sample)	4.8
inle	CAS2 (demographic controls of normative sample)	4.3

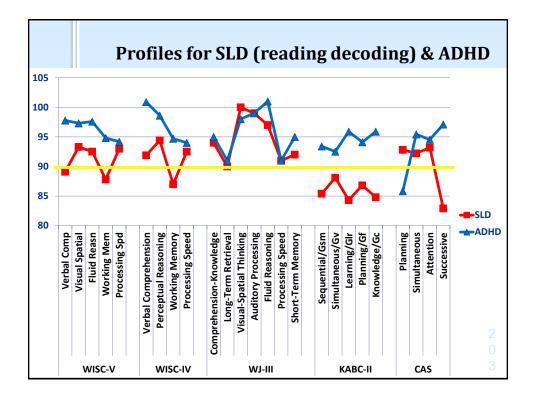
					Chante	r 8: Validi
					Chapte	i o. valiui
Table 8.9. Com	parison Betwe	en Black and White	Groups: CEFI Full Scale			
Form		Black	Matched White	d-ratio	F (df)	р
	М	97.7	Sample 99.0			
Parent	SD	16.8	17.9	-0.07	0.59 (1.385)	445
	N	195	196			
	M	95.6	102.2			
Teacher	SD	14.9	14.9	-0.44	19.16 (1, 390)	< .001
	N	196	196			
	M	99.4	101.1		-	
Self-Report						
Sen-Report	SD	15.9	16.2	-0.10	0.56 (1, 190)	.454
	N	98	16.2 98 ; medium effect size = 0.5; larg			.454
Note. Guidelines fo	N r interpreting d	98 : small effect size = 0.2	98	ge effect size = 0.8		.454 p
Note. Guidelines fo	N r interpreting d	98 : small effect size = 0.2 een Hispanic and W	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc: Matched White	ge effect size = 0.8	3.	
Note. Guidelines fo	N r interpreting d mparison Betw M SD	98 : small effect size = 0.2 een Hispanic and W Hispanic	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc: Matched White Sample	ge effect size = 0.8	3.	
Note. Guidelines fo Table 8.10. Cor Form	N r interpreting d mparison Betw	98 : small effect size = 0.2 een Hispanic and W Hispanic 101.4	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc: Matched White Sample 99.5	e effect size = 0.8 ale <i>d</i> -ratio	F (df)	p
Note. Guidelines fo Table 8.10. Cor Form	N r interpreting d mparison Betw M SD	98 : small effect size = 0.2 een Hispanic and W Hispanic 101.4 15.2	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc: Matched White Sample 99.5 14.7	te effect size = 0.8	F (df)	р .116
Note. Guidelines fo Table 8.10. Cor Form	N r interpreting d mparison Betw M SD N M SD N M SD	98 : small effect size = 0.2 een Hispanic and W Hispanic 101.4 15.2 308 98.2 14.8	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc: Matched White Sample 99.5 14.7 308 100.9 14.8	e effect size = 0.8 ale <i>d</i> -ratio	F (df)	p
Note. Guidelines fo Table 8.10. Cor Form Parent	N r interpreting d mparison Betw M SD N M SD N SD N	98 : small effect size = 0.2 een Hispanic and W Hispanic 101.4 15.2 308 98.2 14.8 308	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc. Matched White 99.5 14.7 308 100.9 14.8 307	te effect size = 0.8	<i>F</i> (<i>df</i>) 2.48 (1, 610)	р .116
Note: Guidelines fo Table 8.10. Cor Form Parent Teacher	N r interpreting d mparison Betw M SD N M SD N M M	98 small effect size = 0.2 een Hispanic and W Hispanic 101.4 15.2 308 98.2 14.8 308 101.6	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc. Matched White Sample 99.5 14.7 308 100.9 14.8 307 100.6	te effect size = 0.8	<i>F</i> (<i>df</i>) 2.48 (1, 610) 5.18 (1, 613)	р .116 .023
Note. Guidelines fo Table 8.10. Cor Form Parent	N r interpreting d mparison Betw M SD N M SD N SD N	98 : small effect size = 0.2 een Hispanic and W Hispanic 101.4 15.2 308 98.2 14.8 308	98 ; medium effect size = 0.5; larg hite Groups: CEFI Full Sc. Matched White 99.5 14.7 308 100.9 14.8 307	te effect size = 0.8	<i>F</i> (<i>df</i>) 2.48 (1, 610)	р .116











California Dyslexia Guidelines

Dyslexia is a specific learning disability that is neurobiological in origin. It is characterized by difficulties with accurate and/or fluent word recognition and by poor spelling and decoding abilities. These difficulties typically result from a deficit in the phonological component of language that is often unexpected in relation to other cognitive abilities and the provision of effective classroom instruction. Secondary consequences may include problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge. (IDA 2002)

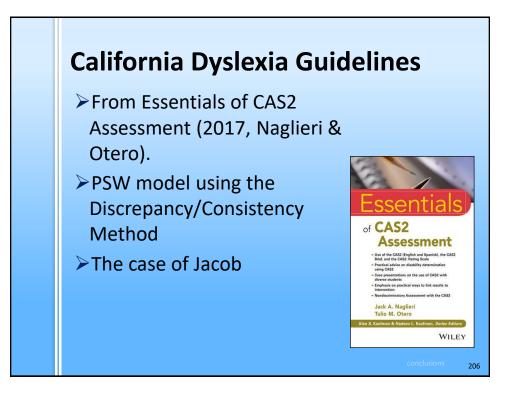
A neurobiological disorder manifested by reading decoding and spelling failure

nclusions 204

California Dyslexia Guidelines

Dyslexia may also be understood as one type of a "specific learning disability," which is defined in California's regulations pertaining to students who qualify for special education services. <u>Title 5, *California Code of Regulations*, Section 3030(b)(10)(A)</u> discusses specific learning disabilities and dyslexia as follows:

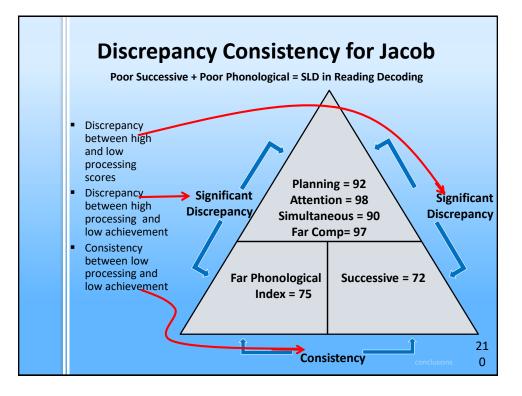
Specific learning disability means a disorder in one or more of the basic psychological processes involved in understanding or in using language, spoken or written, that may have manifested itself in the imperfect ability to listen, think, speak, read, write, spell, or to do mathematical calculations, including conditions such as perceptual disabilities, brain injury, minimal brain dysfunction, **dyslexia**, and developmental aphasia. The basic psychological processes include attention, visual processing, auditory processing, **phonological processing**, sensory-motor skills, cognitive abilities including association, conceptualization and expression . . . Specific learning disabilities do not include learning problems that are primarily the result of visual, hearing, or motor disabilities, of intellectual disability, of emotional disturbance, or of environmental, cultural, or economic disadvantage.

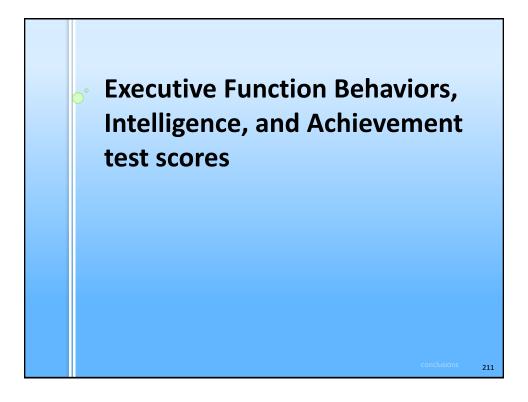


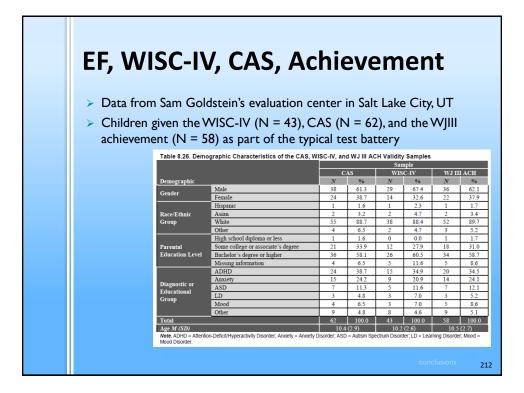
Presenting Concerns: Reading, Math Word Problems, Anxiety							
WISCV	COMPOSITE		S, ANXIETY				
W15C V	SCORE	KAIQE	TERCENTILE RAIN				
Verbal Comprehension	89	Below Average	23%				
Visual Spatial	84	Below Average	14%				
Fluid Reasoning	82	Below Average	12%				
Working Memory	72	Very Low	3%				
Processing Speed	76	Very Low	6%				
FULL SCALE SCORE	81	Below Average	10%				
WIAT III Reading	87	Below Average	19%				
WIAT III Math	90	Average	25%				
WIAT III Writing	94	Average	34%				

CAS-2	COMPOSITE SCORE	RANGE	PERCE RAI
Planning: the ability to apply a strategy, and self- monitor and self- correct performance while working toward a solution.	92	Average	30
Attention: the ability to selectively focus on a stimulus while inhibiting responses from competing stimuli.	98	Average	45
<i>Simultaneous Processing-</i> is the ability to reason and problem solve by integrating separate elements into a conceptual whole, and often requires strong visual-spatial problem solving skills.	90	Average	25
<i>Successive Processing-</i> is the ability to put information into a serial order or particular sequence.	72	Very Low	30
CAS-2 COMPOSITE SCORE	86	Below Average	189

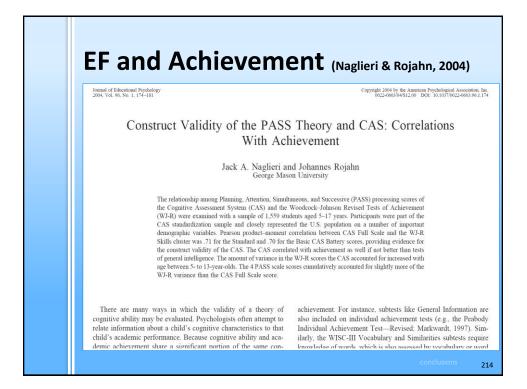
Jacob 6 th grade							
FAR index	Standard score (95% CI)	Percenti	le	Qualitative descriptor			
Phonological Index	75	5%	Mode	rately Below Averag			
Fluency Index	92	30%		Average			
Mixed Index 81			Below Average				
Comprehension Index	97	42%	Average				
FAR Total Index	84	14%		Below Average			
KEY INTERPRETATION		Score	Percentil e	Descriptor			
Nonsense Word Decoding – requires the student to decode a series of nonsense words presented in order of increasing difficulty.			3%	Moderately Below Average			
Irregular Word Reading Fluency – the student reads a list of phonologically irregular words arranged in order of increasing difficulty in 60 seconds.			37%	Average			







				CAS		
		FS	Plan	Sim	Att	Su
CEFI						
Full Scale		.45	.49	.43	.37	.32
[
		WISC-IV				
		FS	VC	PR	WM	PS
CEFI						
Full Scale		.39	.44	.27	.30	.34
		WJ-III A	chieveme	nt lests		
				1	Broad	
		Bro	ad Br	oad V	Vritten	
CEFI Scales	Total	Read	ling M	ath La	nguage	Media
Full Scale	.51	.4	Q	49	.47	.49

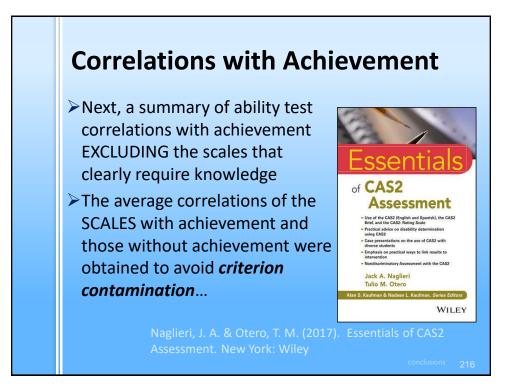


EF and Achievement (Naglieri & Rojahn, 2004)

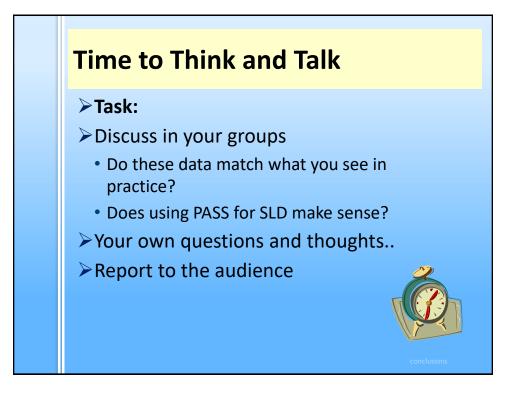
- Correlation between Executive Function (Planning + Attention) and overall achievement (Skills Cluster) = .51 (N = 1,559; p < .001)</p>
- P&A added significantly to the prediction of achievement after Simultaneous and Successive scores were used in the regression equation

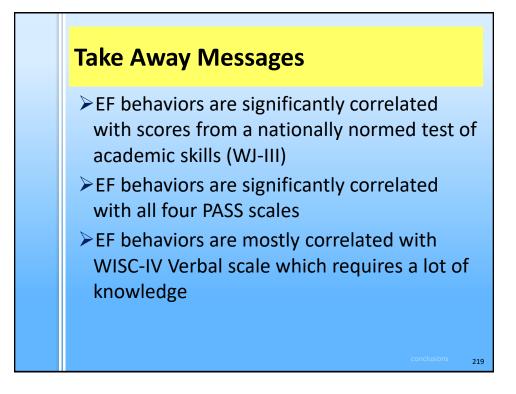
	CAS Standard Battery subtests						
Scale	Planning	Simultaneous	Successive	Attentio			
WJ-R subtests							
Letter-Word Identification	.47	.53	.49	.42			
Passage Comprehension	.43	.50	.47	.39			
Calculation	.50	.47	.36	.43			
Applied Problems	.49	.60	.47	.44			
Dictation	.50	.53	.49	.44			
Word Attack	.41	.48	.44	.37			
Reading Vocabulary	.42	.53	.50	.35			
Quantitative Concepts	.51	.59	.49	.44			
Proofing	.44	.48	.44	.40			
WJ-R clusters							
Broad Reading	.48	.55	.50	.43			
Basic Reading	.47	.54	.49	.42			
Reading Comprehension	.44	.54	.50	.39			
Broad Math	.54	.58	.45	.47			
Basic Math	.55	.58	.46	.47			
Math Reasoning	.49	.60	.47	.44			
Basic Writing	.51	.55	.48	.45			
Skills Cluster	.54	.62	.53	.48			

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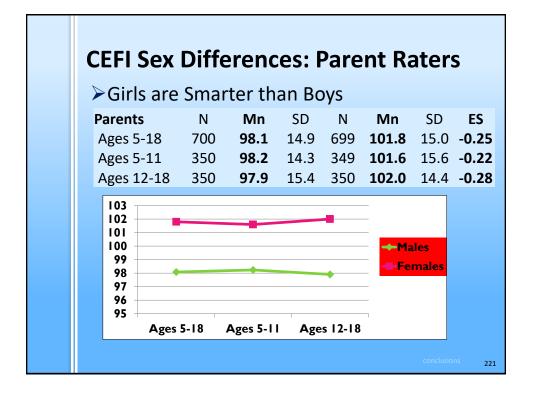


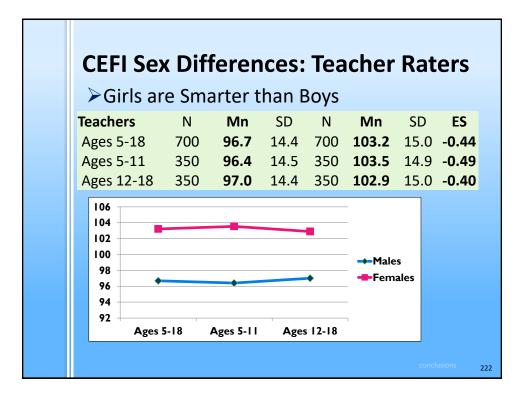
		Average Correlation					
	Correlation	orrelations Between Ability and Achievement			Scal	Scales without	
	Test Scores			All Scales	ach	ieveme	ent
	WISC-V	Verbal Comprehension	.74				
	WIAT-III	Visual Spatial	.46				
	N = 201	Fluid Reasoning .4 Working Memory .6					
				(
		Processing Speed	.34	.53		.47	
	WJ-IV COG	Comprehension Knowledge	.50				
	WJ-IV ACH	Fluid Reasoning	.71				
	N = 825	Auditory Processing	.52				
		Short Term Working Memory	.55				
		Cognitive Processing Speed	.55				
		Long-Term Retrieval	.43				
		Visual Processing	.45	.54		.50	
	КАВС	Sequential/Gsm	.43				
	WJ-III ACH	Simultaneous/Gv	.41				
Note: All correlations	N = 167	Learning/Glr	.50				
are reported in the		Planning/Gf	.59			.48	_
ability tests' manuals.		Knowledge/GC	.70	.53			
Values per scale were	CAS	Planning	.57				
averaged within each	WJ-III ACH	Simultaneous	.67				
ability test using Fisher	N=1,600	Attention	.50				

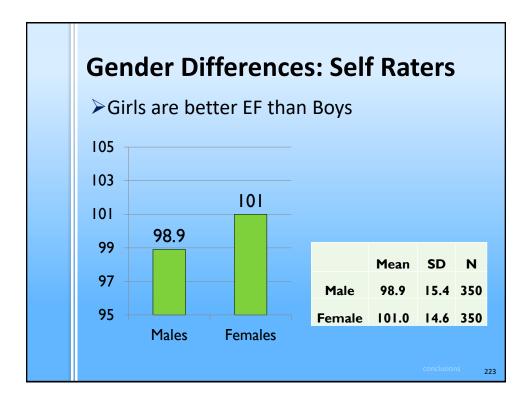


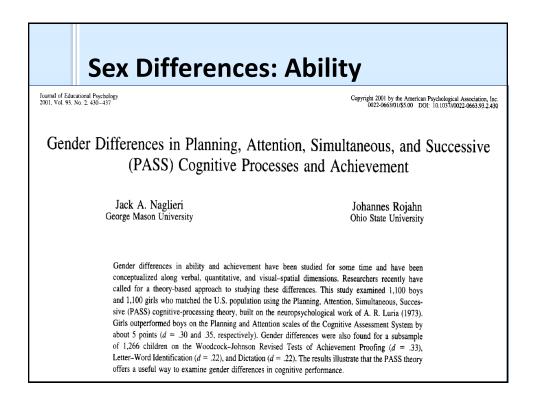












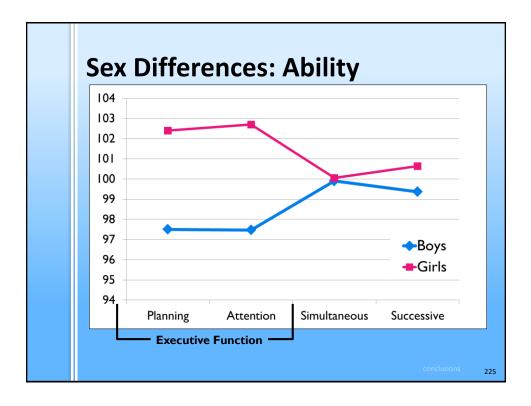


	TABLE 2.6						
	Means, SDs, Ns, and d-ratios for DESSA 7-Scores by Gender						
		Male Female	ale				
		d-ratio	Mean SD i				
TEACHER RATERS							
Personal Responsibility	48.23 9.98 631	-0.42	52.28 9.30 61				
Optimistic Thinking	48.97 10.14 627	-0.30	51.88 9.47 61				
			51.80 9.38 6 51.66 9.64 6				
Decision Making	48.44 10.08 631	-0.37	52.05 9.32 6				
Relationship Skills	48.36 10.04 630	-0.41	52.33 9.30 61				
Self-Awareness	49.05 10.28 631	-0.22	51.17 9.36 6				
			52.02 9.18 6				
Sectar Enotonia Composito	40.00 10.01 010	-0.00	51.75 7.51 0				
PARENT RATERS							
Personal Responsibility	48.14 9.52 602	-0.36	51.66 9.87 6				
			51.62 9.82 6				
Social-Awareness	48.71 9.75 602	-0.41	51.10 9.71 64				
Decision Making	48.56 9.76 602	-0.29	51.41 9.62 6				
Relationship Skills	48.40 9.72 602	-0.33	51.65 9.90 64				
			51.54 9.51 64				
Sen-Management	48.80 9.98 602	-0.27	51.51 9.94 64				
	TEACHER RATERS Personal Responsibility Optimistic Thinking Gost-Directed Behavior Social-Awareness Soft-Mongenent Soft-Mongenent Social-Investment Social-Investment PARENT RATERS Personal Responsibility Optimist: Thinking Gost-Directed Behavior Social-Awareness Docicion Making	Means, SDe, Ne, and dera DESSA 7-Scores by Gender DESSA 7-Scores 2000 TEACHER BATERS Memory 300 # 31 Decision Moking 48.44 10.08 Decision Moking 48.44 10.08 43.11 Self-Amergenes 49.05 10.28 43.11 Self-Amergenes 49.05 10.28 43.11 Self-Amergenes 49.05 10.28 43.11 Self-Amergenes 49.37 10.02 43.11 Self-Amergenes 49.75 10.28 40.10 42.11 Patent Patters Personal Responsibility 48.37 10.25 40.20 40.11 Decision Moking 48.34 0.72 40.20 50.11 48.40 10.72 40.20 50.12 48.40 10.03 48.40 10.03 48.40 10.03 48.40	Macana, SDa, Na, and el-artics for DESSA 7-Scores by Gender Meles Males Statistics Thaining Seidi-Marreness 48.23 9.86 63.31 63.27 63.26 63.27 63.26 63.26 63.27 63.26 63.26 63.27 63.26 63.26 63.27 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 63.26 <th <="" colspan="2" t<="" td=""></th>				

