# Selecting Evidence-Based School Interventions Rigor, Relevance, and Reward MISSISSIPPI DPLACTION DEPACTMENT OF EDUCATION Bureau Director, Program Evalation diseymour@mdekt2.org

Introductions
And Overview

**Kahoot** 

- Download the Kahoot app (iOS or Android) OR go to kahoot.it (can use laptop or phone browser).
- Enter the survey PIN when prompted



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### **Meeting Norms**

- Agenda
- Cellphones/Laptops
- Bathrooms
- Breaks
- Questions



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## Framing the Day and Goals of Workshop

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### VISION To create a world-class educational system that gives students the knowledge and skills to be successful in college and the workforce, and to flourish as parents and citizens MISSION To provide leadership through the development of policy and accountability systems so that all students are prepared to compete in the global community

### State Board of Education Goals FIVE-YEAR STRATEGIC PLAN FOR 2016-2020

- 1. All Students Proficient and Showing Growth in All Assessed Areas
- 2. Every Student Graduates from High School and is Ready for College and Career
- 3. Every Child Has Access to a High-Quality Early Childhood Program
- 4. Every School Has Effective Teachers and Leaders
- 5. Every Community Effectively Uses a World-Class Data System to Improve Student Outcomes
- 6. Every School and District is Rated "C" or Higher



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### By lunch, you will be able to...

- · Define evidence-based interventions
- Identify the four tiers of evidence as defined by ESSA and explain the differences between them
- Use the Rigor, Relevance, Reward framework to consider good-fit interventions for your school/district

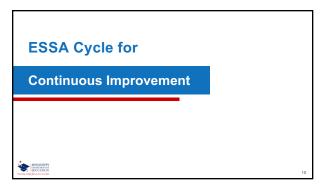


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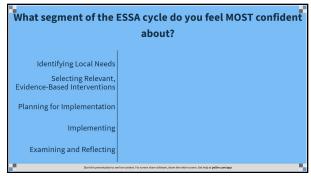
### **Framing Discussion**

- First, decide who will speak for your group when we debrief in about 10 minutes.
- When looking for evidence-based interventions (includes strategies, resources, purchased resources, consultants, etc.), how do you ensure that you stay focused on finding the BEST strategies/resources for your students, and not simply on compliance?
- What is your process for finding the best interventions? How involved are you? Who
  are the key people that should be involved?
- When dealing with vendors or consulting companies, what questions are you asking?
   How do you vet their claims?















### **Identifying Local Needs**

- ESSA requires that a needs assessment be conducted to determine issues that should be addressed at schools in need of targeted and comprehensive support.
- Interventions that are selected should be those that address the issues identified in the needs assessment, have the highest evidence-level possible, and be those that the school has the feasibility to implement and sustain.
- SIG plan, 1003A, Title I Consolidated and Schoolwide Plans



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Identifying Local Needs					
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	chers	х			×
	cipals	x	x	×	×
	er school leaders	*	1		*
	ents/family members	×			×
	aprofessionals	×	x	n/a	r/a
	cialized instructional support sonnel	×	x	n/a	ж
Adn	ninistrators	- 1	n/a	- 1	n/a
Pers	er Appropriate School sonnel	*		n/a	n/a
Non	public Schools	×	x .		×
Bass Mer	nmunity Partners/Community- ed Organizations/Community mbers	×	x	×	ж
	earchers	n/a	n/a		n/a
	y childhood education grams (where applicable)	*	n/a	n/a	n/a
(who	itutions of higher education ere applicable)	*	n/a		n/a
	oloyers (where applicable)		n/a	m/a	n/a
(whi enter cour loca	al government representatives ich may include a local law proement agency, local javenile nt, local child welfare agency, or il public housing agency)	n/a	n/a	n/a	×
	an tribes or tribal organizations ere applicable!	r/a	n/a	n/a	ж
→ orga	er stakeholders/other anizations with relevant erience	n/a	x	×	n/a

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### **Stakeholder Groups**

### Students and Youth

- Alumni associations
- · Student mentors
- Juvenile justice programs, youth court
- Youth-led initiatives or organizations
- Youth groups or leadership programs, including faith-based youth groups (e.g., Boys and Girls Clubs)
- Student subgroups and students with specific needs and assets (English learners, students with an IEP)



### **Stakeholder Groups**

### Parent, Family, and Community Members

- Family and community organizers and advocacy groups
- Business owners, esp. that employ youth
- · Faith-based organizations
- Parents, guardians, and families, including those of students with disabilities, English learners, and other underrepresented students
- Families and advocates for students in the foster system or youth experiencing homelessness



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### ESSA Cycle for Continuous Improvement Step 2: Selecting Relevant, Evidence-Based Interventions

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"Evidence Based"	
	-
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At Your Table (5 minutes)	
At Tour Table (5 minutes)	
<ul><li>What's "Evidence-Based"?</li></ul>	
Is that different from "Research Based?" (NCLB)	
What do you look for when you're trying to decide whether an	
intervention is "evidence-based?"	-
<ul> <li>From what you know about the "evidence-based" requirements under ESSA, will you have to change the way you select</li> </ul>	
interventions going forward?	
•	
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Every Student Succeeds Act (ESSA) Overview	
The Elementary and Secondary Education Act (1965) was designed	
to increase the role of research in educational decisions	
<ul> <li>No Child Left Behind (NCLB) "scientifically based research"often called "research-based" or "data driven"</li> </ul>	
caneu research-paseu or uata uriveri	
Every Student Succeeds Act (ESSA) "evidence-based interventions"	

### **What are Evidence-Based Interventions?**

Research-Based: "Any program [or strategy or practice] can find *some* research that supports the principles it incorporates" (Slavin, 2007), but usually has **no proof** that the program will be effective.

Evidence-based interventions are programs, strategies, or practices that have been shown to be effective in leading to a particular outcome. There is definitive evidence to show they produce results when implemented correctly. --adapted from CA Department of Education (2017)



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### Research-Based versus Evidence-Based

### Research-Based

### Evidence-Based

- Descriptive
- Intervention based on "existing research"
- May not have been tested at all
- "Hope" or "Think"
- Experimental (group comparisons)
- Intervention has been tested directly
- Pre/Post Designs
- ...



• "Expect"

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### **ESSA Requirements**

Programs in Titles I, II, III, and IV to include "evidence-based interventions"

Some programs recommend "evidence-based," but most (Title I, section 1003A, school improvement funds) require "evidence based"



Is this intervention evidence-based?	
Barrier to the control of the Barrier of the control of the contro	
Demonstrates a <u>statistically significant</u>	
effect on improving relevant outcomes	
according to one of the following	
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MINISSEPP MINISS	
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Is this intervention evidence-based?	1
is this intervention evidence-based:	
strong evidence based on at least one	
well-designed and well-implemented	
experimental study	
OR	
MISSISTIFF (IRAUSISMO) 29	
20	1
29	
	1
Is this intervention evidence-based?	
moderate evidence from at least one	
well-designed and well-implemented	
quasi-experimental study	
quasi-experimental study	
OR	
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### Is this intervention evidence-based?

promising evidence from at least one well-designed and well-implemented correlational study with statistical controls for selection bias

OR



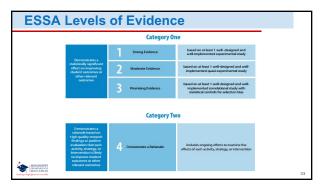
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### Is this intervention evidence-based?

- Demonstrates a **rationale** based on highquality research findings **AND**
- Includes a rigorous evaluation designed to produce strong, moderate or promising evidence of the effects of the activity, strategy, or intervention

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### "Demonstrates A Rationale"

- · "Research-based?"
- · "Linking studies"
- · No direct studies yet, BUT
- Well-defined logic model, informed by literature review, WHICH
- Strongly suggests how the intervention is likely to improve student outcomes.



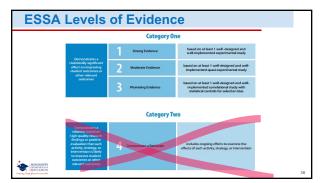
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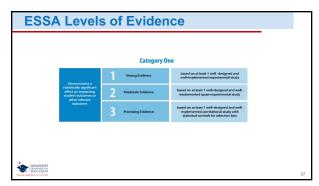
### "Demonstrates A Rationale"

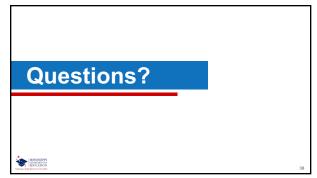
- Title I, Part A Reservation funds can be used, but not the 7% for school improvement
- There must be a plan to study the effects that will happen AS PART OF THE INTERVENTION

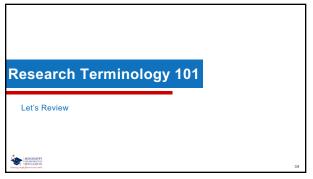


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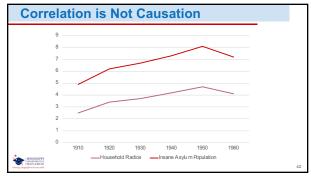
Quantitative	Qualitative
Uses numerical data/statistical analysis to	Not numeric
group	Focus groups, interviews, observations
Pre/post scores, survey data, attendance data,	Seeks to explore or describe
teacher turnover rates	Usually very small sample size, often not
Seeks to explain and predict	randomly chosen
Relies on representative samples, especially randomly chosen	Does not meet ESSA "evidence based" standard.
Meets ESSA "evidence based" standard	

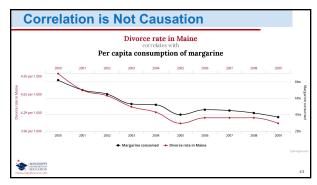
### **Basic Research Terminology**

- Control group: basically, this group does not get the intervention, but carries on "business as usual"
- Treatment or Experimental group: this is group that gets the intervention
- Causal: the treatment CAUSED students to improve (on whatever your desired outcome is)
- Correlational: THERE WAS A RELATIONSHIP BETWEEN the treatment and the student outcomes, but we can't be
   SURE that the treatment caused it

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### **MORE Basic Research Terminology**

- Statistical significance: did the intervention seem to affect the treatment group in some way?
- p < .05
- No indication of how much it helped, or the direction of effect. Means the treatment did <u>something</u>—these results weren't accidental.
- Results can be statistically significant but not really that important in a practical sense.

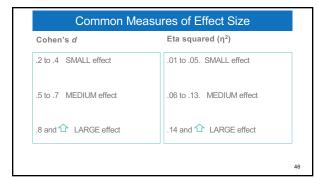


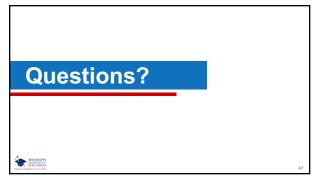
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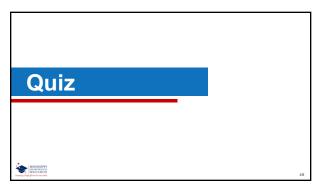
### **MORE Basic Research Terminology**

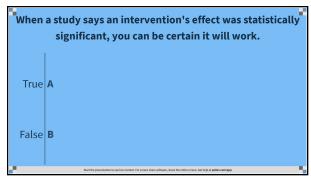
- Effect size: how much did this intervention actually AFFECT the outcome?
- Can be small (low payoff) or huge. Can be negative—a large negative effect means students got way WORSE!
- If a study does not report effect size, proceed with caution!



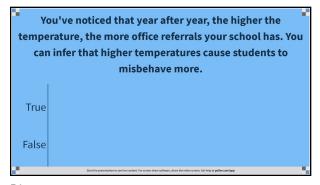






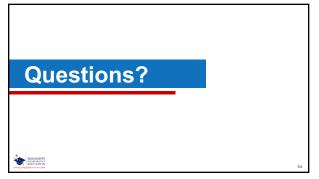


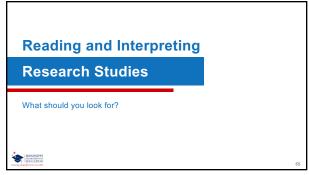


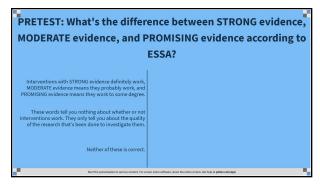


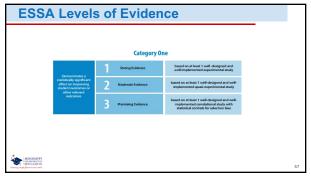
this ro	e found a really good study about teacher coaching. In esearch article, the researcher observed two literacy es once per month and interviewed them about what working and what wasn't. This study can be used to meet ESSA requirements.
True	
False	
	Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollex.com/app

statis that it	lor tells you that research on their curriculum yielded tically significant results with a large effect size, and meets the criteria for "evidence-based" under ESSA. ased on that testimony, you can feel good about purchasing.
True	
False	
0.00	Start the presentation to see live content. For screen share software, share the entire screen. Get help at poller.com/epp









	Strong Evidence	Moderate Evidence	Promising Evidence
Research Design	Experimental (highest standard)	Quasi-Experimental (often more practical esp in education)	Correlational (usually easiest)
Demonstrated Effects	<ul> <li>control and experimental groups</li> <li>random assignment</li> </ul>	<ul> <li>control group and experimental groups</li> <li>NOT randomly assigned</li> </ul>	<ul> <li>still poorly defined under ESSA</li> <li>but looks for relationships between events or groups</li> </ul>
"This intervention"	This intervention CAUSED (scores to go up, office referrals to decrease, etc.).	This intervention CAUSED (scores to go up, office referrals to decrease, etc.).	This intervention WAS RELATED TO (a rise in scores, a decrease in referrals, etc.).

### **Strong Evidence**

- · Experimental design: Experimental group and a control group
- Participants (students, teachers, classrooms) are randomly assigned to a group—every participant has an equal chance of being in the control of experimental group
- Causal
- Statistically significant, positive effect
- Large sample (rule of thumb: 350+), multi-site sample
- Sample overlaps with the population AND setting you're serving



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### **Strong Evidence--Experimental**

Researchers found 4 elementary schools in NY that agreed to participate in the study. All 2,102 first grade students were pre-tested using DIBELS during the first three weeks of school.

Researchers created **matched pairs** based on DIBELS results and demographic characteristics (i.e., gender, ethnicity, ELL status, special education status, and free/reduced lunch status).



### **Strong Evidence--Experimental**

- One student in each matched pair was randomly selected to be in the treatment group (N = 1,051), and one in the control group (N = 1,051), .
- Treatment group students were placed in LLI groups by teachers. Control group students did not receive LLI.
- Neither treatment nor control students received any additional pull-out literacy interventions during the study period.
- · Post test: DIBELS scores



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### Strong Evidence--Experimental

Discuss at your table:

- Did every child have an equal chance at being either in the experimental group or the control group?
- 2. Does it matter that schools volunteered for the study?
- 3. Pairs were matched using pretest scores, gender, ethnicity, ELL status, special education status, and free/reduced lunch status. What else might have mattered?

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### **Moderate Evidence**

- Quasi-experimental design: Experimental group and a control group
- Participants NOT randomly assigned to a group—an unequal chance of being either an experimental or control subject
- Causal
- · Statistically significant, positive effect
- Large sample (rule of thumb: 350+), multi-site sample
- Sample overlaps with the population AND setting you're serving



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### **Moderate Evidence—Quasi Experimental**

Schools in MA that were already implementing SFA were recruited to participate in the study, which began at the start of the 2008–09 school year. Once 20 SFA® schools were recruited, recruitment began for comparison schools with similar demographic and achievement characteristics; matching criteria included school-level achievement, percentage of students eligible for free school meals, and the percentage of ESL students.



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### Moderate Evidence—Quasi Experimental

### Intervention Group

 Students in the intervention group (N=492) received reading instruction through SFA®.

### Comparison Group

 Students in the comparison group (N= 1043) continued using their regular, previously planned curricula (i.e., Letters and Sounds; Jolly Phonics; Read, Write Inc.).



### Moderate Evidence—Quasi Experimental

Discuss at your table:

- 1. Does it matter that groups were not randomly assigned?
- Does it matter that schools who volunteered were already using SFA?
- 3. Groups were matched using school-level achievement data, percent of students eligible for F/R lunch, and percentage of ESL students. What else might have mattered?



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	Strong Evidence	Moderate Evidence	Promising Evidence
Research Design	Experimental (highest standard)	Quasi-Experimental (often more practical esp in education)	Correlational (usually easiest)
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### **Promising Evidence**

- Correlational study <u>OR</u> experimental design with small sample
- Still poorly defined in ESSA
- Statistical controls for selection bias: "covariates" or "controlled for"
- NOT causal—looks for "relationships between" (correlation)
- Not countered by other high-quality studies
- Sample overlaps with the population AND setting you're serving



Dramining Evidence Correlational	
Promising Evidence—Correlational	
A first-grade teacher <b>volunteered to test</b> the Read Naturally program	
with her students for 3 weeks. Her 12 students were tested to get	
STAR, Comprehension Reading Test (CRT), and Oral Reading Fluency	
(ORF) test scores. Researchers then found 12 more first-graders in the same school with closely matching test scores to use as a control	
group.	
The experimental group used Read Naturally SE for 45 minutes a day, 4	
days a week. The control group continued business as usual. After	
three weeks in their respective reading programs, the students were	
then re-tested using the same tests.	
TIRCATUR TO	
70	
Promising Evidence—Correlational	
Tromising Evidence—Correlational	
Discuss at your table:	
Can you draw a good conclusion based on this size sample?	
What about the duration of the treatment?	
Groups were matched using reading test scores. What else	
might have mattered?	
What would this study need to change to be considered	
"Strong" evidence?	
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Practice and Review	-

Evidence		

1. Researchers wanted to test whether there was a relationship between instructional coaching and office referrals. They looked at a school in the district that had implemented a coaching model the year before, and counted the number of office referrals per year for the three years before the coaching started, then the year with coaching.

The researchers found that office referrals went down after the school began using instructional coaches.

This is an example of....





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### **Evidence Level Review**

2. Researchers wondered whether flashcards help students in a math tutoring program learn multiplication facts better. They asked for teacher volunteers, and gave students in those classes a multiplication pretest.

Half the volunteer teachers were trained and began flashcard games with their students, while the others continued with standard worksheet practice.

The researchers found that students in the flashcard condition didn't learn multiplication facts better than those in the no flashcard condition.

This is an example of....





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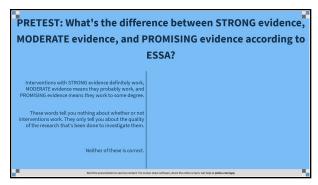
### **Evidence Level Review**

3. Researchers randomly selected half the reading teachers in a district to implement a computer-based literacy program, while the other half continued to use the district textbook package. At the end of the year, they found that students in the textbook classrooms scored significantly higher on achievement tests than those who used the computer-based program.

This is an example of....







### Strong Evidence—But.....

- Strong, Moderate, Promising Evidence apply to research rigor ONLY
- Statistically significant simply means the results were not due to chance
- Ready, Set, Leap! has Promising Evidence that it did not work
- In a study using random assignment of PreK students in NJ, the authors found statistically significant negative effects



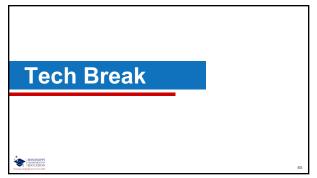
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### Strong Evidence—But.....

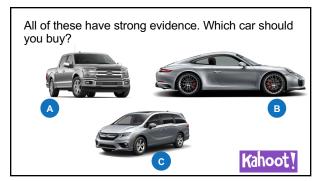
- Don't use Promising or Moderate or Strong Evidence as a shortcut
- Don't use statistical significance as a shortcut
- Read the study or a review of it, and consider the rigor of the research and its findings
- · What else should you consider?

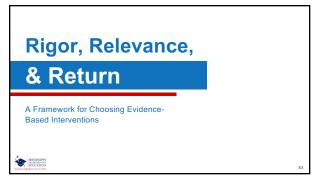












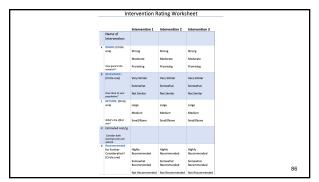


### **Intervention Rating Worksheet**

- · Useful for teams researching interventions
- · Compares research studies directly
- Notes for research rigor, relevance to population, and return on investment of funding and capacity (e.g., staffing, training, stakeholder effort)
- Space for overall recommendation and comments
- Part of a larger Intervention Rating TOOLKIT, we'll use this afternoon



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### **Study Example -- Strong Evidence**

Kim, J.S., Samson J.F., Fitzgerald, R., & Hartry A. (2009)

A randomized experiment of a mixed-methods literacy intervention for struggling readers in grades 4–6: effects on word reading efficiency, reading comprehension and vocabulary, and oral reading fluency (Read 180)





### **Study Example -- Strong Evidence**

The purpose of this study was (1) to examine the **causal effects** of READ 180 and (2) to examine whether print exposure among **children** in the **experimental condition** explained variance in **posttest reading** scores

A total of 594 children in Grades 4–6 were **randomly assigned** to READ 180 or a district after-school program. Both programs were implemented 4 days per week over 23 weeks.



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### **Study Example -- Strong Evidence**

Children in the READ 180 intervention participated in three 20-min literacy activities, including (1) individualized computer-assisted reading instruction with videos, leveled text, and word study activities, and (2) independent and modeled reading practice with leveled books.

Children in the district after-school program participated in a 60-min program in which teachers were able to select from 16 different enrichment activities that were designed to improve student attendance.



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# Study with Strong Evidence 81% Free or reduced price lunch Female: 50% Female: 50% Make: 50% Make: 50% Massachusetts

### **Study Example -- Strong Evidence**

There was no significant difference between children in READ 180 and the district after-school program on norm-referenced measures of word reading efficiency, reading comprehension, and vocabulary.

Although READ 180 had a positive impact on oral reading fluency and attendance, these effects were restricted to children in Grade 4.



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### **Study Example -- Strong Evidence**

Print exposure, as measured by the number of words children read on the READ 180 computer lessons, explained 4% of the variance in vocabulary and 2% of the variance in word reading efficiency after all pretest reading scores were partialed out.



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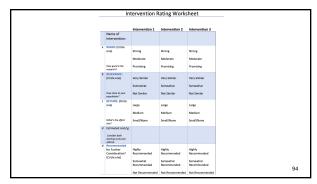
### **Study Example -- Strong Evidence**

As of January 2017, the initial start-up cost of a *READ 180*® *Universal* package for 60 students was approximately \$43,000.

A READ 180® Universal upgrade kit for 30 students costs \$11,000. An upgrade kit with 60 student licenses costs \$15,000.







### **Study Example -- Moderate Evidence**

Waite, R.D. (2000).

A study of the effects of Everyday Mathematics on student achievement of third-, fourth-, and fifth-grade students in a large north Texas urban school district (Doctoral dissertation).





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### **Study Example -- Moderate Evidence**

The study sample consisted of third-, fourth-, and fifth-grade students. Six schools within one district volunteered to implement the first edition of Everyday Mathematics® during the 1998–99 school year.

A comparison group of 12 schools within the same school district was selected. Comparison schools did not use Everyday Mathematics® during the 1998–99 school year.



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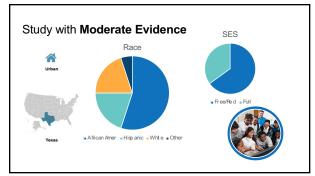
### **Study Example -- Moderate Evidence**

The study matched the 12 comparison schools to the intervention schools based on ethnicity, socioeconomic status (measured by the proportion of students that participated in the free or reduced-price lunch program), and prior student mathematics scores (measured by the lowa Test of Basic Skills [ITBS]).

The analytic sample consisted of 732 students in 52 classes among the six intervention schools and 2,704 students among the 12 comparison schools.



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### **Study Example -- Moderate Evidence**

The primary outcome used to measure student mathematics achievement was the Total Math Score from the 1999 Texas Assessment of Academic Skills (TAAS).

The study reports an overall mean gain of 11 percentile points for the intervention group, a statistically significant difference compared to the control group.



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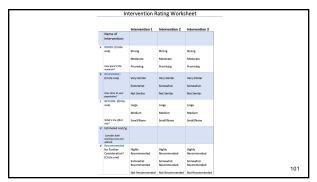
### **Study Example -- Moderate Evidence**

Curriculum sets for *Everyday Mathematics*® are bundled by grade and are available for pre-K–6. The classroom resource packages for grades 1–6 cost \$263.52.

Additional materials range in cost from \$8.58 for a Skills Link Student Book to \$526.65 for a classroom Manipulative Kit.



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### **Study Example -- Promising Evidence**

Marion, G. (2004).

An examination of the relationship between students' use of Fast ForWord reading program and their performance on standardized assessments in elementary schools.



Kahoot!

### **Study Example -- Promising Evidence**

This study was conducted in four elementary schools in Tennessee using students enrolled in the fifth and sixth grades. The Fast ForWord reading program was provided to all students in three of the elementary schools and not provided in the fourth elementary school. The 83 students who were enrolled in Fast ForWord served as the study group and 126 students who were not enrolled served as the control group.





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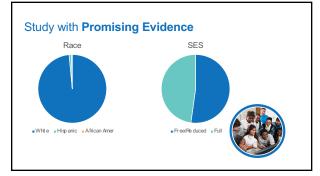
### **Study Example -- Promising Evidence**

 The study analyzed relationships of both students who received Fast ForWord and those who did not receive Fast ForWord.



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### **Study Example -- Promising Evidence**

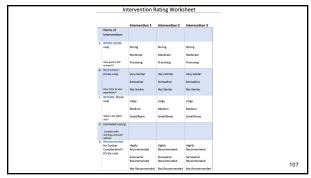
Students in the Fast ForWord group scored on average 9 points higher (100 point test) than students in the No Fast ForWord group in Reading, and 6 points higher in Language.

Annual school site license cost: \$21,000



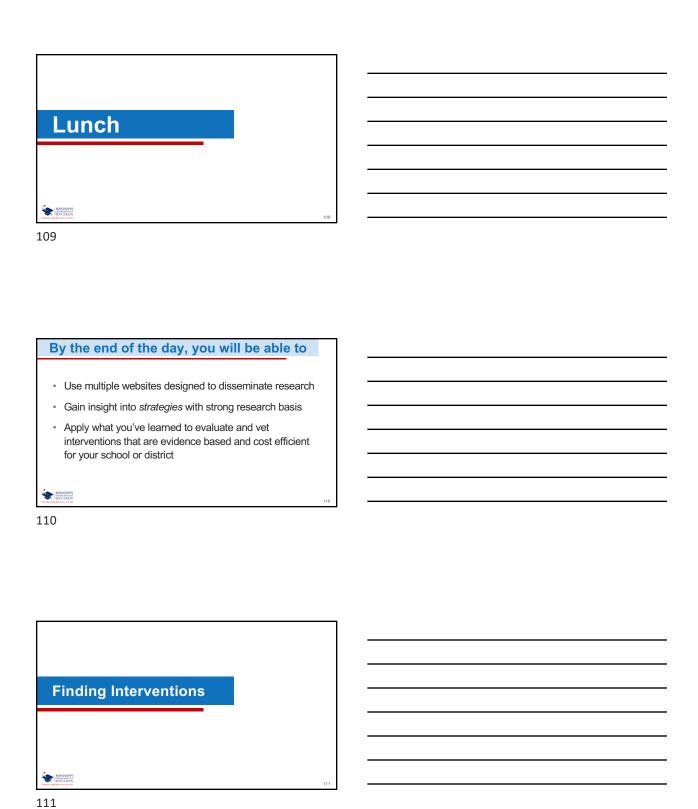
Kahoot!

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# Before we start...what's an intervention?

- Packaged programs, software or program subscription, curricula
- Others are strategies and practices (job embedded professional development, increased learning time, social skills training)
- · Can use funds for both types



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# **What Works Clearinghouse**

- https://ies.ed.gov/ncee/wwc/FWW
- Federal service (Institute of Education Sciences)
- WWC does not conduct studies
- Reviews educational research for quality, and findings
- Ratings do not exactly align to ESSA standards
- · Can be confusing
- Studies often >3 years old



	Strong Evidence	Moderate Evidence	Promising Evidence
Level of Evidence	Category One		
Demonstrated Effects	•	Statistically significant positive effect	Statistically significant positive effect
"This intervention"	CAUSES"	CAUSES"	WAS RELATED TO"
	Meets WWC Standards WITHOUT Reservations	Meets WWC Standards WITH Reservations	NONE

1	1	1

What Works Clearinghouse	T
https://ies.ed.gov/ncee/wwc/FWW	
Problem 1: My middle school needs to improve student reading comprehension. How can I find evidence-based	-
interventions for this?	-
Interspective Interspec	
115	
What Works Clearinghouse	7
https://ies.ed.gov/ncee/wwc/FWW	
	-
Problem 2: My high school students need Algebra help. HELP!	
	-
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What Works Clearinghouse	7
https://ies.ed.gov/ncee/wwc/FWW	
Problem 3: My teachers need help with writing instruction in elementary school.	
Significantly devices.	
Minimizer (interesting) Interesting to the control of the control	
117	_

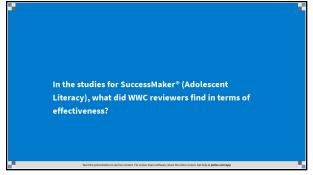
# What Works Clearinghouse • https://ies.ed.gov/ncee/wwc/FWW Problem 4: I've heard a lot lately about the Connected Mathematics Project (CMP) curriculum. How can I find out more before I consider buy it? 118

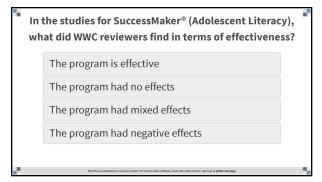
WWC Scavenger Hunt

WWC Scavenger Hunt
Competition

Get ready to compete!

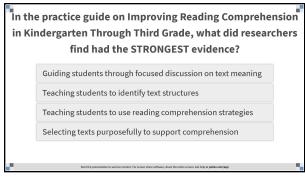
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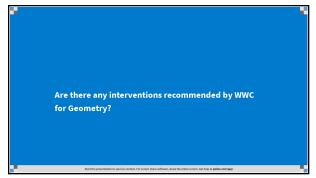


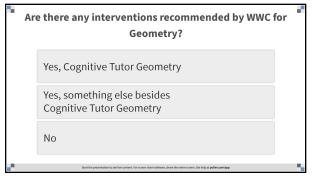


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In the practice guide on Improving Reading Comprehension in Kindergarten Through Third Grade, what did researchers find had the STRONGEST evidence?

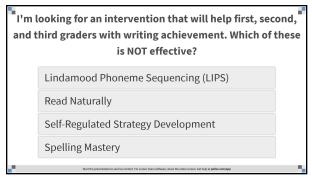






I'm looking for an intervention that will help first, second, and third graders with writing achievement.
Which of these is NOT effective?

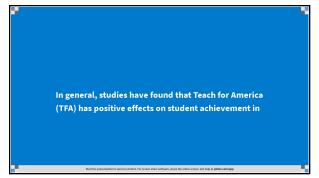
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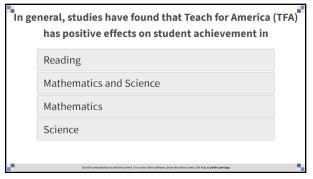


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According to WWC, which intervention had a positive effect on reducing problem behaviors in 7th and 8th graders?

	ording to WWC, which intervention had a positive effe n reducing problem behaviors in 7th and 8th graders?	
	Connect with Kids	
	Facing History and Ourselves	
	Franklin Covey's The Leader in Me	
	Functional Behavioral Assessment-Based Interventions	
	Surt the presentation to we live content. For scores share software, share the entire scores. Get help at poles.com/app	
130		





The WWC reviewers found one study on Great
Explorations in Math and Science (GEMS) Space
Science Sequence for Science. What do you know
about the sample characteristics?

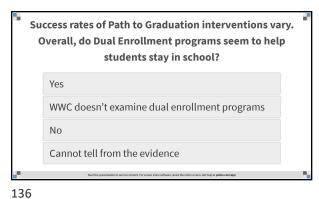
133

The WWC reviewers found one study on Great Explorations in Math and Science (GEMS) Space Science Sequence for Science. What do you know about the sample characteristics?

Most of the students qualified for free/reduced price lunch
They lived in Massachusetts
Only 2% were English language learners
They were in grades 2-3

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Success rates of Path to Graduation interventions vary. Overall, do Dual Enrollment programs seem to help students stay in school?



## **Evidence for ESSA**

- https://www.evidenceforessa.org
- · Robert Slavin at Johns Hopkins University
- Aligns exactly to ESSA levels (Strong, Moderate, Promising)
- No longer only Reading and Math



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### **Notice Effect Sizes**

- Take a minute to look around Evidence for ESSA
- What do you notice about effect sizes across interventions?



	-
Questions?	
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Other Resources	
Other Resources	

We	The IRIS Center at Vanderbilt: https://iris.peabody.vanderbilt.edu/resources/ebp_summaries/_
	Doing What Works: https://dwwlibrary.wested.org
	New York State Education Department: http://www.nvsed.gov/accountability/evidence-based-interventions
	Ed Reports: https://www.edreports.org/compare/results/ela-hs
	Best Evidence Encyclopedia: http://www.bestevidence.org
•	OSI Website at MDE



# **Guided Practice—Maple Street U.E.**

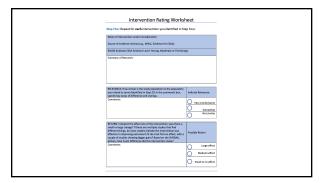
Step One: Identify a major or especially pressing problem

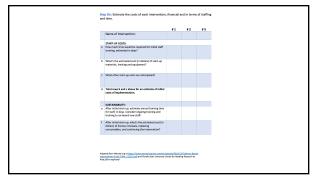
Step Two: Identify a specific outcome or objective. Consider population.

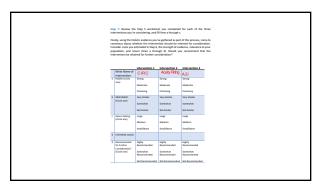
(Step Three: Will help you consider barriers and assets)

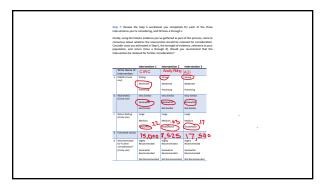


Intervention Rating Toolkit	
The Control Technic Asset por exclusional setting (which and selected, Sheed for mental intersections, consumptions with setting Section (Section Ages or other manages), starting the problem or leases that you wish to address with this intervention or furning securior.	
Its to have interrely the security controlled you're houghing to achieve. He explict in your objective—the should be clear on the controlled to the proposition you wish to serve or a define—of all students need the intervention or are there specific process or subgenous?	
	-
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143	
	_
Guided Practice—Maple Street U.E.	
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Step Four: Choose 3 interventions to evaluate	
'	
Step Five: Complete the worksheet for each	
Step 6: Examine Costs	
MISSISTIPI IDEALON INCLINO 146	
	J -
146	
Gran Theses Wilher was represented an extensive transfer and to address the Strong	7
Sizes Them, What are some intersections quive a shreefy used to address the Visus process. The process of the	
results, why not? Will those barriers to success still be a factor? How will you address them going forward?	
Some Fair: What interpretations are your pronofution inchangements to make the need-	
Step Four What interventions are you considering implementing to meet the goals you established above? Choose up to 2-3 and list them here.	











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# THINK LIKE A VENDOR

- What would you emphasize?
- What would you de-emphasize or omit?
- How can you make your product look terrific for OVERALL ACHIEVEMENT EFFECTS?
- How about IMPROVEMENT EFFECTS?
- Vendor-funded research
- What questions do you have/what have you seen?



# Wrap Up Discussion

- First, decide who will speak for your group when we debrief in about 10 minutes.
- When looking for evidence-based interventions (includes strategies, resources, purchased resources, consultants, etc), how do you ensure that you stay focused on finding the BEST strategies/resources for your students, and not simply on compliance?
- What is your process for finding the best interventions? How involved are you? Who
  are the key people that should be involved?
- When dealing with vendors or consulting companies, what questions are you asking?
   How do you vet their claims?



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# Dr. Dana Seymour

Bureau Director, Program Evaluation dseymour@mdek12.org

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