

Research that Connects the Dots
for Smarter MTSS and Special Education

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Big Problem

"History doesn't repeat itself but it often rhymes." MARK TWAIN

Speaking of rhyming, I remember the looks from people when I was a CBM trainer for DIBELS and AimsWeb. It felt like 95% of the room was looking at me like I was asking them to teach on Mars. It took a long time for people to use the tools of NCLB. Now everyone is using them everywhere for almost everything.

With the passing of the Every Student Succeeds Act (ESSA), does your technology match your expectations? Are you still using NCLB tools to solve ESSA problems? Although the Every Student Succeeds Act has been law since December 2015, many schools are still using the thinking and technology left over from No Child Left Behind.

WHAT IS THE PURPOSE OF ESSA?

According to the statement of purpose in ESSA, "The purpose of this title is to provide all children significant opportunity to receive a fair, equitable, and high-quality education and to close educational achievement gaps."

Under NCLB, schools analyzed the reading process by breaking reading into 5 parts or the 5 Big Ideas. Districts implemented science-based reading research (SBRR) to improve each part. As a result, everyone monitored progress on each part or skill. Therefore, educators gained knowledge about the PROCEDURAL PARTS of the reading process. That was an important step.

Now the bar has been raised again. The new standards require that we not only master foundational skills, but that we develop higher order thinking as well.

ARE YOU STUCK IN NCLB?

Do your MTSS plans and IEPs give all students access to grade-level expectations?

no yes

Do your MTSS plans and IEPs empathize with individual cognitive challenges and impacts?

no yes

Do your MTSS and IEP teams write plans with evidence-based strategies that help everyone access the core curriculum?

no yes

Are your MTSS and special education services equitable? Do you have a defensible continuum of support?

no yes

If you answered "no" to any of these questions, you are not alone. Making the shift is not as hard as you might think. With the right thinking and the right technology, you can make the shift to ESSA quicker, clearer, and smarter than you might believe is possible.

OPEN YOUR DOORS TO ESSA

To meet the expectations of the Every Student Succeeds Act, schools need two things: develop ESSA thinking and use ESSA technology.

ESSA Thinking means developing a common understanding that

- every student must be presented with grade level assignments that are directly aligned to state assessment design from day one of school.
- every student must engage in active participation and be given ample opportunities to respond to instruction.
- every student must have positive behavior supports that demand accountability to academic expectations in a learning rich environment.

ESSA Technology means teachers have tools and resources to

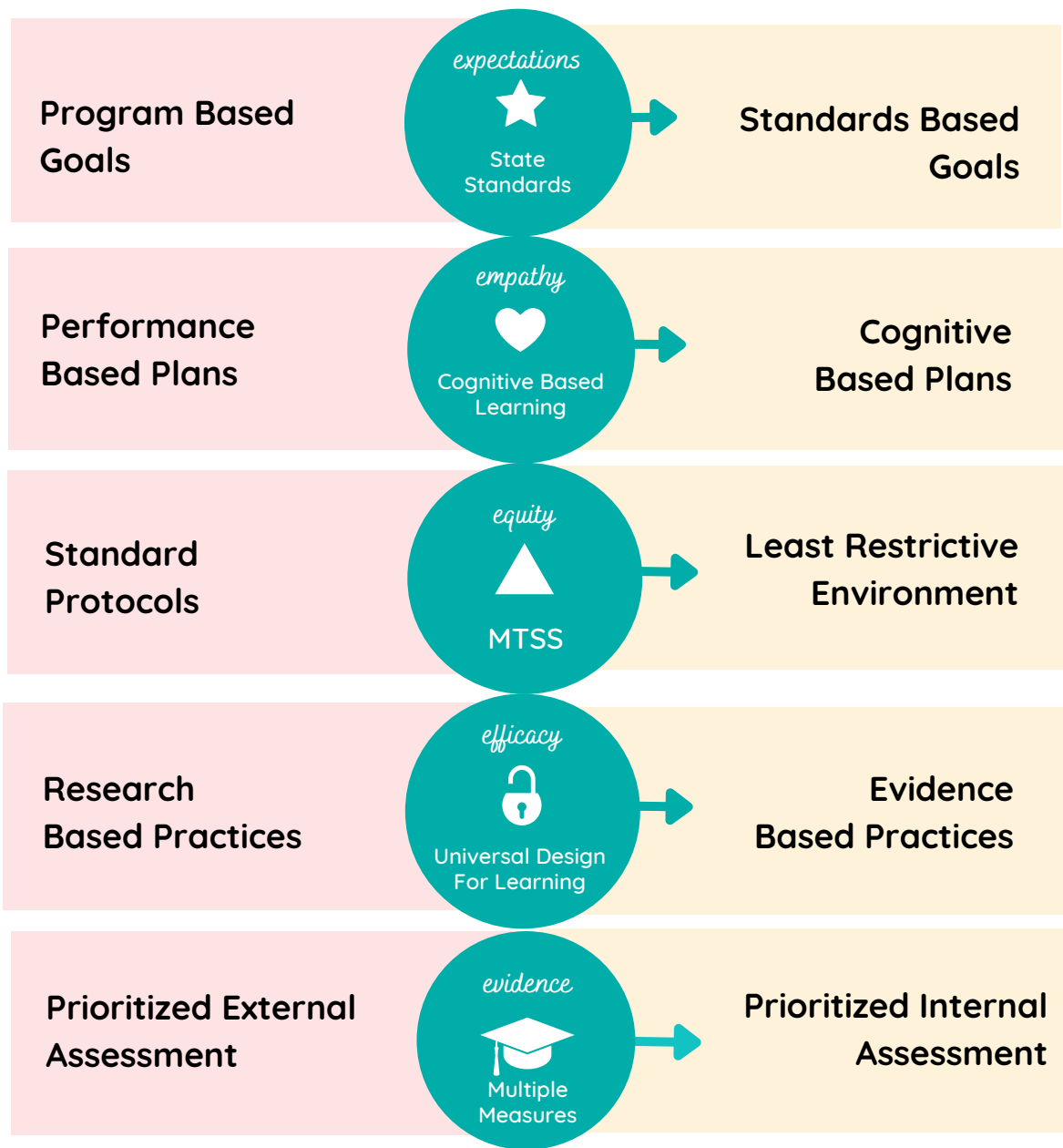
- facilitate the writing of standards based goals that remove individual cognitive barriers and align to the rigor of the state assessment expectations.
- generate flexible grouping and scheduling with plans that personalize learning and measure response to standards-based instruction directly.
- connects social emotional learning (SEL) goals to academic goals so every student is accountable for learning in every interaction and assignment.



dot it Essentials for Making the Shift

*"Learning and innovation go hand in hand.
The arrogance of success is to think that what you did yesterday will be sufficient for tomorrow."*

Innovation is the practical implementation of ideas that result in the introduction of new or improved products or services. You still need the knowledge and skills you learned from NCLB. It is the successes of NCLB, not the failures, that are keeping many schools stuck. It's that and the uncertainty of what to do next. However, if you stay stuck in NCLB, your achievement gaps will continue to widen.



THE STANDARDS

RESEARCH

Every DOT IT student plan is based on teacher and team inputs that generate options for attainable grade level standards-based goals.

"80% of teachers agree that students should achieve the standards. 50% believe the standards are attainable for their students."¹

"71% of students are successful on classroom assignments. 17% of students accessed a grade level standard on those exact same assignments."²

"States are expected to adopt challenging academic standards that will serve to guide curriculum and instruction for all students. Furthermore, states must implement assessments that measure "higher-order thinking skills and understanding."³

DOT IT MTSS and IEP goals are based on a task analysis across the 4 stages of learning applied to each standard.

"Each goal has four elements: a target behavior, the conditions under which the target behavior will be exhibited and measured, the criterion for acceptable performance, and the timeframe within which the student will meet the criterion."⁴

Each DOT IT goal is deconstructed according to the four basic units of learning. To clarify measurable results, goals are progress monitored and graphed on a digital rubric within the system.

"Information integration has four basic units: the input, the sensory register, the central processing unit, and the unit for output."⁵



EXCEED EXPECTATIONS



Safety lives in the standards.

COGNITIVE-BASED LEARNING

RESEARCH

DOT IT plans directly address the cognitive challenges that are impacting learning. The system generates impact statements based on the 5 cognitive components and aligns recommendations for goals, conditions, and accommodations that best remove the cognitive barrier.

"Psychologists have come to learn that while general mental ability measured by FSIQ is a powerful metric for more global descriptions of a person's cognitive abilities, the greatest clinical usefulness comes from an analysis of the index scores; those "primary" mental abilities that more specifically describe the key or most important components of intellectual and cognitive functioning."⁶

"A useful classification system shapes how we view complex phenomena by illuminating consequential differences and obscuring trivial differences. A misspecified classification system orients us toward the irrelevant and distracts us from taking productive action."⁷

DOT IT practices clearly articulate what the teacher will say and do and what the student will say and do to meet the expectations of the standard.

"It is the relationship between the teacher, the student and the content-not the qualities of any one of them by themselves-that determines the nature of instructional practice."⁸

DOT IT goals are prefaced with instructional conditions that best remove barriers to learning. Options for accommodations are aligned to the Universal Design for Learning strategies that are evidenced based for each cognitive challenge.

"Generally, incoming sensory information, such as what we see and hear, is received in the back of the brain, including the occipital and temporal lobes of the brain (Recognition networks), processed and relayed for meaning in the center of the brain (Affective networks), and is organized in the frontal lobes for response or action (Strategic networks). While there is no linear progression for this process, this model for thinking about three broad learning networks can be helpful when we design learning experiences."⁹



ENCOURAGE EMPATHY



Empathy is the highest order thinking.

MTSS & LRE

RESEARCH

DOT IT plans are based on a clear and consistent continuum of services across 5 levels of support: Tier 2 and Tier 3 support for non-eligible students, and 3 levels of support for students with disabilities. Recommendations in DOT IT are based on teacher inputs aligned to research based scaffolds such as intervention intensity and concrete-representational-abstract instructional sequences.

“The CPA approach consist of three steps specifically: 1) learning by physical manipulation of concrete objects, 2) learning by representation of pictorial of concrete manipulation, and 3) solve the problem by mean an abstract notation.”¹⁰

MTSS provides an effective framework for turning around schools, reforming curricula to better meet student learning needs, and improving outcomes for all students—including those from culturally and linguistically diverse backgrounds.”¹¹

DOT IT’s meeting protocol guides teams through the necessary and appropriate inputs to make choices that fit within the MTSS framework while respecting the autonomy of team decisions based on unique student needs.

“The power of collective capacity is that it enables ordinary people to accomplish extraordinary things—for two reasons. One is that knowledge about effective practice becomes more widely available and accessible on a daily basis. The second reason is more powerful still—working together generates commitment.”¹²



ESTABLISH EQUITY



Equity is access to excellence for everyone.

EVIDENCE-BASED PRACTICES RESEARCH

DOT IT plans allow teachers and teams to pinpoint can do descriptors and remove barriers to learning much more clearly. DOT IT Group Goal Guides give teachers flexibility on how to instruct and assess based on individual student strengths and needs.

DOT IT's Support Schedule makes it easy to provide differentiated instruction in flexible small groups. Teachers and coaches can support multiple goals and plans simply.

"The various meta-analyses conducted yielded weighted average effect sizes ranging from 0.537 to 0.628. Collective teacher efficacy was found to be strongly and positively correlated with student achievement."¹³

"Scientifically based instructional practices are those that instructors use to teach content and that have been demonstrated to be effective. Differentiated instruction refers to the use of flexible teaching approaches in the classroom to accommodate the individual learning needs of all students."¹⁴

DOT IT's coaching tool gives coaches crystal clear content focus. The recommendations are made during active instruction. Because the instruction is in an accountable plan, it fosters consistent practice on standards based goals. The share feature makes it easy for teachers, coaches and administrators to capture the value of coaching practice.

"When examining understanding instructional coaching through the lens of the 5 empirically predictive elements of effective PD (content focus, active learning, sustained duration, coherence, and collective participation) the model presents itself as a powerful tool for improving teacher knowledge, skills, and practice."¹⁵



ENHANCE EFFICACY



Efficacy is the product of sincere responsibility.

MULTIPLE MEASURES

RESEARCH

DOT IT assessment is based on authentic student work aligned directly to grade level standards and state assessment design.

DOT IT progress monitoring measures standards based goals that are specific, measurable, attainable, relevant and timely.

DOT IT captures teacher documentation, observations, authentic student work, and evidence of learning behaviors in addition to curriculum based goal assessment.

"Reviews of research across a number of learning domains have discovered that students need to demonstrate application of their learning to effectively document the acquisition of valuable skills such as summarizing and generating and testing hypotheses (e.g., Marzano, Pickering, & Pollock, 2001; Pellegrino, Chudowsky, & Glaser, 2001)." 16

"Any state or district that hopes to use progress monitoring as a tool to ensure the highest possible outcomes for every student needs to ensure that the educational system itself—including curriculum, instruction, formative and summative assessments, professional development and school improvement processes—is aligned, coherent, and focused on ensuring that every child is being taught and is learning the grade-level content." 17

"ESSA requires the use of multiple measures for accountability, calling upon states to evaluate student and school progress beyond test score gains and graduation rates by also including one or more indicators of "school quality or student success." 18

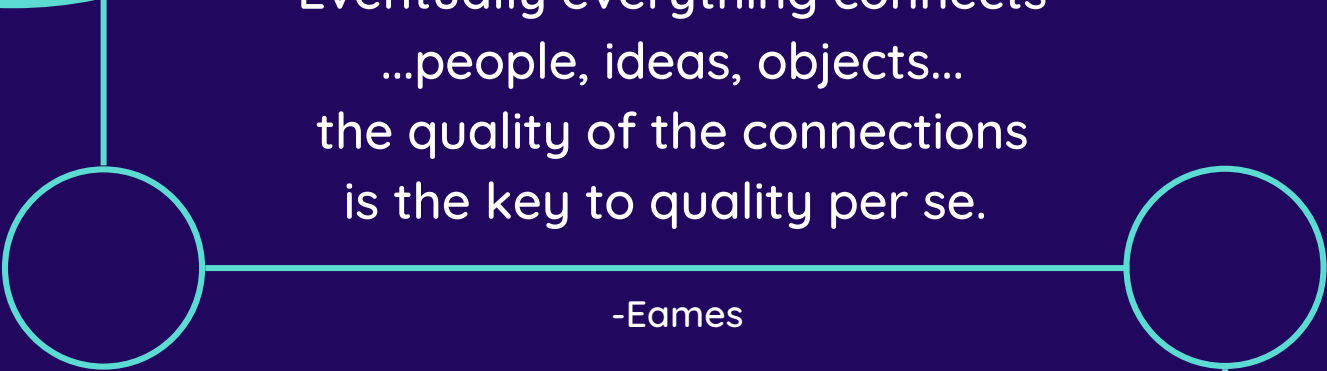


EVALUATE EVIDENCE



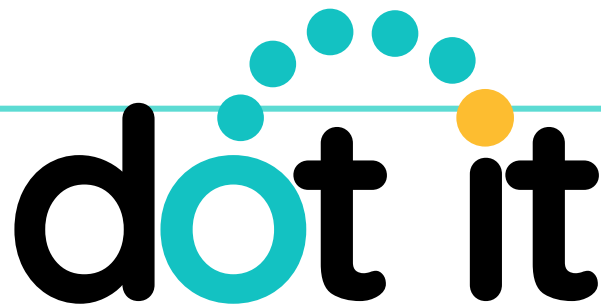

The best indicator of success today is success yesterday.





Eventually everything connects
...people, ideas, objects...
the quality of the connections
is the key to quality per se.

-Eames



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Smarter MTSS and Special Education

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