

**RETHINKING SPEECH
SOUND INTERVENTION:
A TIER 2 MODEL FOR EARLY REMEDIATION,
CASELOAD REDUCTION, AND
PROFESSIONAL RENEWAL**

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DISCLOSURE STATEMENT

**Financial Disclosure: I own and manage
SpeechLanguageLiteracyConnection.com.
I consult and create educational resources related to
this topic.**

Non-Financial Disclosure: None.

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LEARNING OUTCOMES

By the end of this session, participants will be able to:

- **Describe the components of a structured kindergarten Tier 2 speech sound intervention model.**
- **Articulate the research rationale for early, brief, targeted intervention in reducing long-term IEP caseloads.**
- **Differentiate which speech sound errors are highly responsive to Tier 2 remediation.**
- **Design a 6 week intervention cycle using data to guide entry, progress monitoring, and exit decisions.**
- **Integrate learning and efficiency principles into short, high-impact speech sound sessions.**

QUICK PRE-CHECK

- **Type YES in the chat if...**
- **Your caseload has increased over the last 3-4 years.**
- **You feel like you are triaging instead of preventing.**
- **Work expectations have not been recalibrated to match caseload growth.**

THE PROBLEM ISN'T YOU. IT'S THE STRUCTURE.

- **Caseloads have increased.**
- **Student profiles are more complex.**
- **Expectations haven't shifted.**
- **The traditional model doesn't scale.**



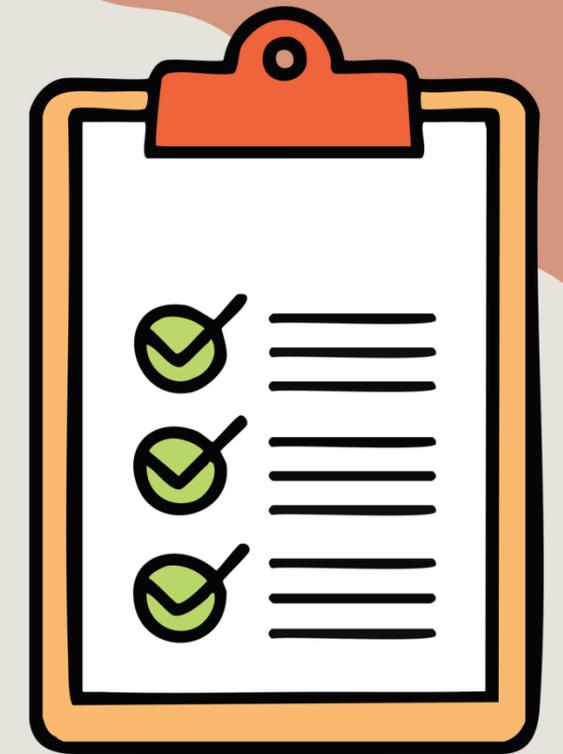
THE REACTIVE SERVICE MODEL

- **Referral → Evaluation → IEP → Extended Service**
- **When support begins only after qualification:**
 - **Intervention is delayed.**
 - **Errors are more entrenched.**
 - **Caseloads grow cumulatively.**
 - **This is a systems issue-not a clinician issue.**

REFLECTION

How many speech-only IEPs are you currently managing that feel like you could remediate faster without all the work that goes into the IEP process?

SO WHAT WOULD A SCALABLE MODEL LOOK LIKE?



THE INTERVENTION MODEL

- **A structured, kindergarten-centered Tier 2 speech sound intervention model.**
- **Designed to:**
 - **Deliver brief, targeted instruction**
 - **Accelerate mastery of speech errors**
 - **Designed for full remediation-not maintenance**
 - **Reduce long-term, speech-only IEPs**

THE PROGRAM ORIGIN

- **How the model began**
 - **Caseload growth**
 - **High volume of mild–moderate speech errors**
 - **Need for earlier, structured intervention**
- **Pilot: Structured Tier 2 speech model**
- **Parallel pilot: Structured phonemic awareness intervention**
 - **→ 35n State awarded grant for literacy programming**

THE CASE FOR EARLY, STRUCTURED INTERVENTION

- **Research consistently shows:**
 - **Early, structured intervention produces stronger gains than delayed treatment.**
 - **Preschool and early elementary speech interventions demonstrate measurable improvement in accuracy and generalization.**
 - **Persistent speech sound disorders are associated with later literacy risk.**
 - **Earlier start and higher intensity predict greater accuracy gains.**

THE TIER 2 PREVENTION FRAMEWORK

- **Early identification: Fall kindergarten speech screener**
- **Brief, high-efficiency cycles: 6-week, high-frequency sessions**
- **Targeted skill focus**
- **Developmentally appropriate, high-response errors**
- **Defined entry & exit criteria**
- **Time-limited, mastery-driven placement**
- **Ongoing progress monitoring**

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REFLECTION

In your district, what speech sound errors typically trigger a speech referral/evaluation for kindergarten students?

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THE PROGRAM: SCREENER

- **Universal kindergarten speech screener**
 - **16 items**
 - **1-2 minutes per student**
- **Simple scoring: Pass | Recheck | Refer for intervention**
- **Designed to identify:**
 - **Errors responsive to Tier 2**
 - **Patterns likely to require formal evaluation**
- **Most commonly flagged sounds:**
 - **K/G, S/Z, F/V, S-blends**

STUDENT SELECTION & SERVICE MODEL

- **Forming the intervention list**
 - **Students identified through universal screener**
 - **Errors typical of IEP'd kindergarten students and highly responsive to intervention**
- **Service format**
 - **Individual sessions**
 - **5-10 minutes**
 - **2-3 times per week**
 - **6-week cycles**
- **Designed for:**
 - **High-frequency practice**
 - **Rapid skill acquisition**

THE 6-WEEK INSTRUCTIONAL CYCLE

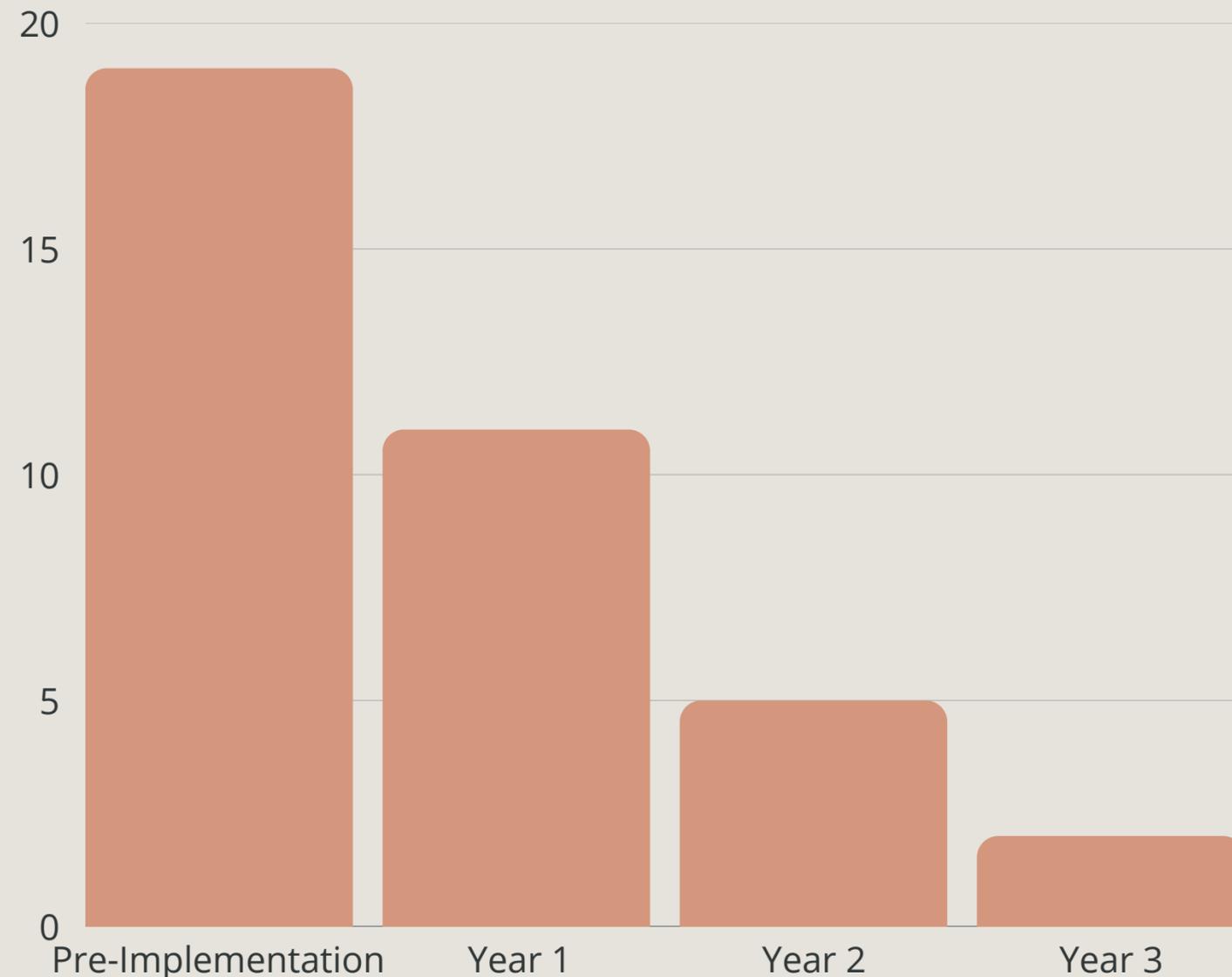
- **Week 0: Baseline**
 - **Collect accuracy data on target sounds**
 - **Determine stimulability and cueing needs**
- **Weeks 1-6: Targeted instruction**
 - **5-10 minute sessions, 2-3x/week**
 - **High-response practice**
 - **Immediate corrective feedback**
 - **Cumulative review**

PROGRESS MONITORING

- **Conducted separately from instructional sessions**
- **Therapy builds skill. Progress monitoring measures it.**
- **Brief probe on target sounds**
- **No cueing or teaching**
- **Compared directly to initial data**
- **Data determines:**
 - **Exit | Continue | Refer**

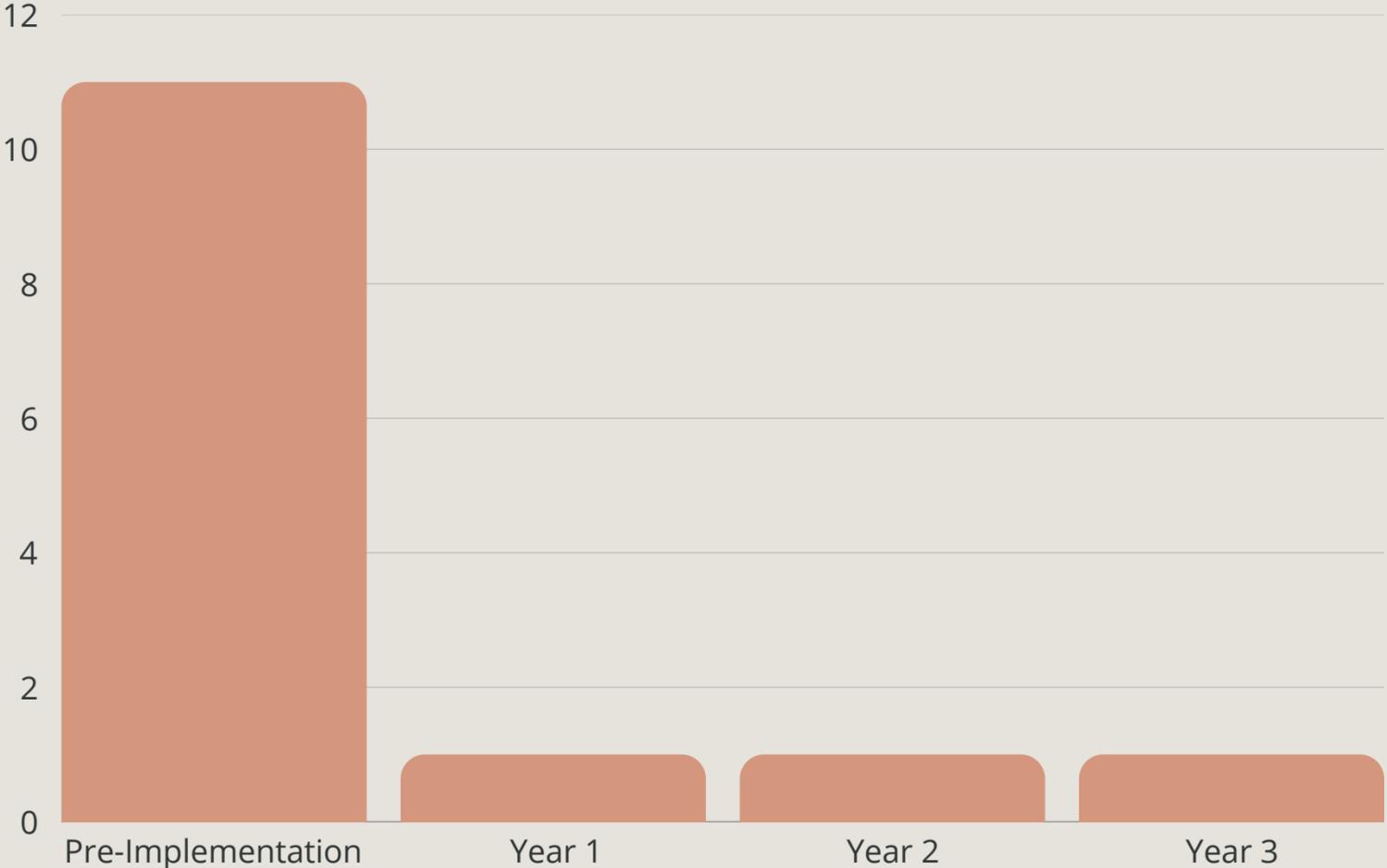
KINDERGARTEN EVALUATIONS REDUCED AFTER TIER 2 IMPLEMENTATION

**Initial evaluations
for students not
previously
identified (all
eligibility areas)**



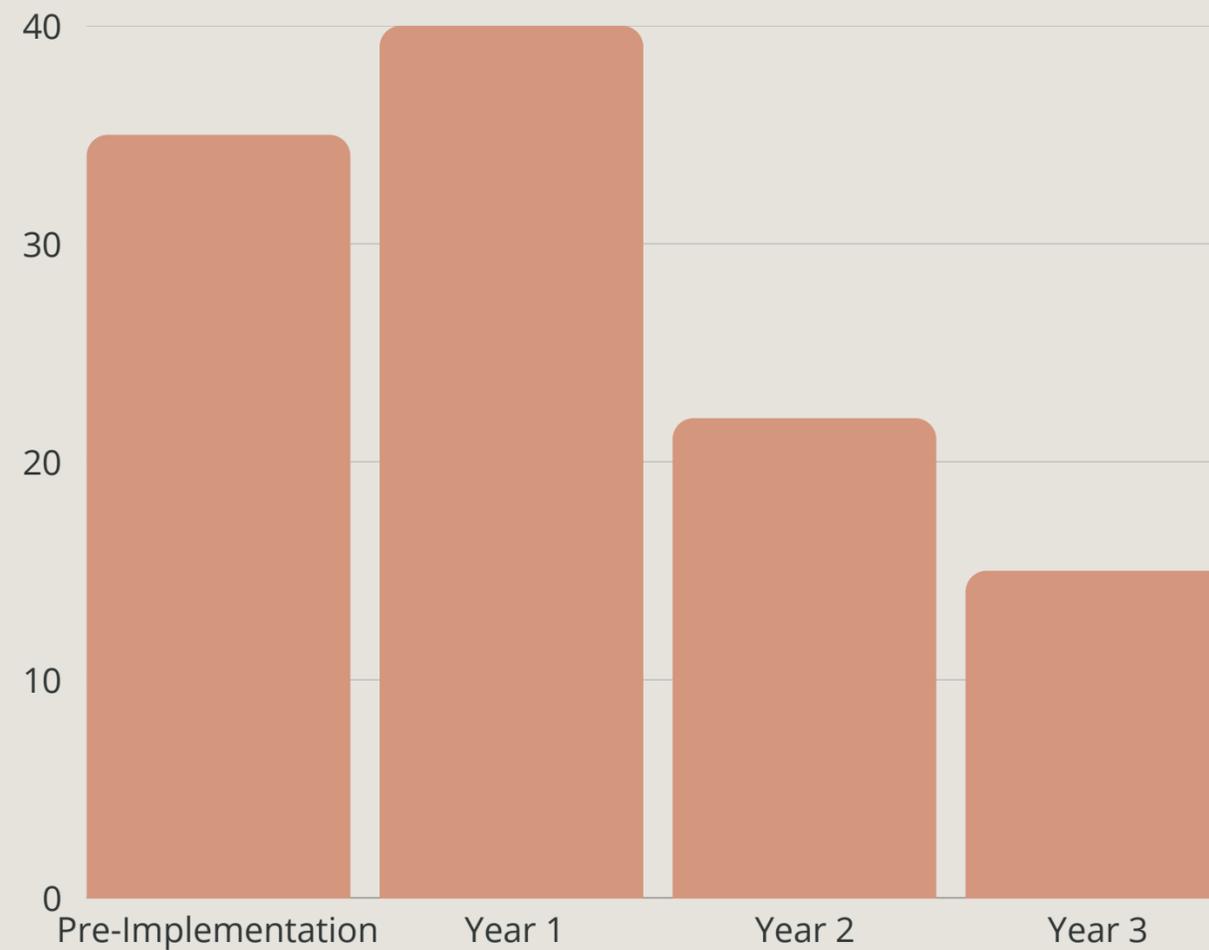
**Proactive Tier 2
reduced the need
for reactive
evaluations.**

KINDERGARTEN EVALUATIONS RESULTING IN SPEECH-SOUND-ONLY IEPS



KINDERGARTEN CASELOAD SIZE DECREASED AFTER TIER 2 IMPLEMENTATION

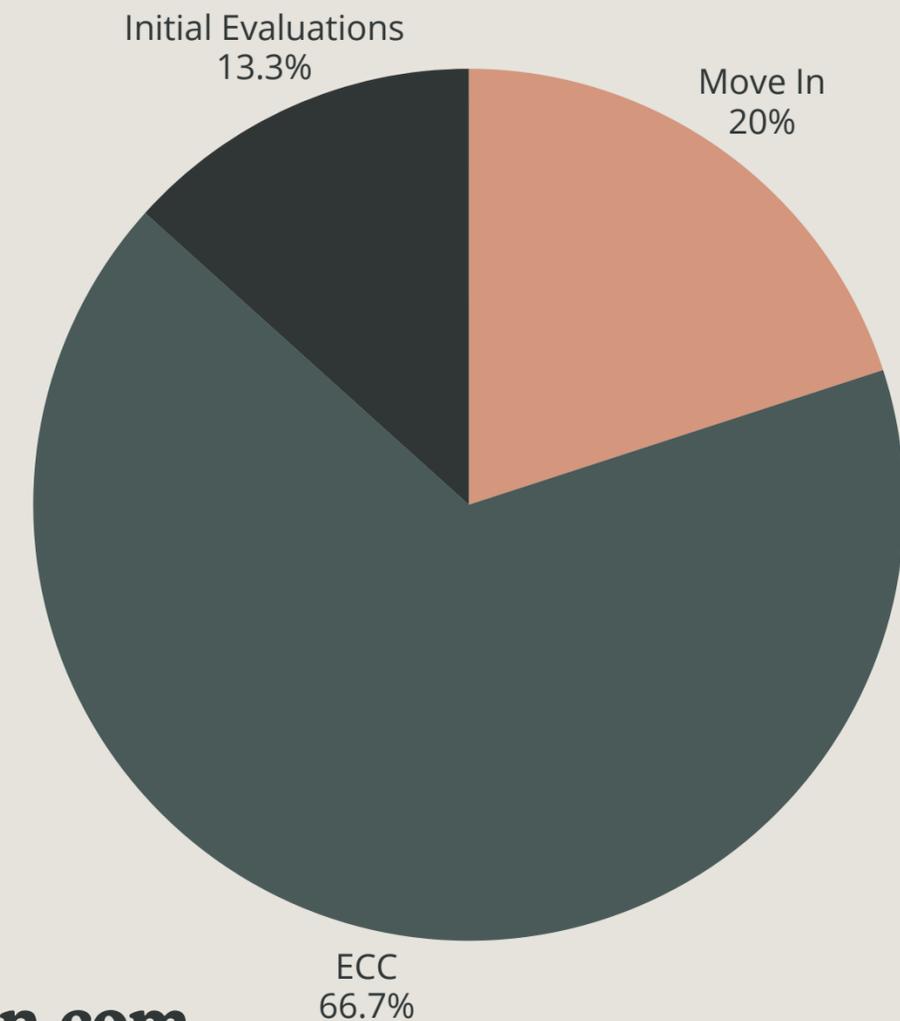
**↓ 62.5% reduction
from Year 1 to Year 3**



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ORIGIN OF 2025-26 KINDERGARTEN CASELOAD

- **Early Childhood Center-ECC
(Previously Identified): 66.7%**
- **Move-In Students: 20%**
- **Initial Elementary Evaluations:
13.3%**





The Value of the Speech-Language Pathologist (SLP) in Schools: Prevention and Response to Intervention



Preventative support involving school-based SLPs improves students' communication and literacy skills.

When compared with usual instruction, small-group support involving the SLP leads to improvements for...

<p>Preschoolers</p> 	<ul style="list-style-type: none"> • 71% of preschoolers improve phonemic awareness.¹ • Preschoolers identify initial sounds 4 times more often.¹ • Preschoolers show 3 times more improvement in story retelling, with skills maintained at 4-week follow-up.²
<p>Elementary school students</p> 	<p>Following just two hours of additional support...</p> <ul style="list-style-type: none"> • 42% fewer students with mild articulation errors require special education services.³ <p>Students who receive narrative instruction...</p> <ul style="list-style-type: none"> • Demonstrate 5 times more improvement in written narrative skills.⁴ • Demonstrate 11 times more improvement in oral narrative skills.⁴ • Demonstrate 2 times more improvement in narrative language production.⁴ • Maintain gains in narrative skills at 5-month follow-up.⁴ <p>Multilingual students who exhibit difficulties in language and literacy skills demonstrate improved outcomes, with...</p> <ul style="list-style-type: none"> • 2 times more improvement in narrative production, 5 times more improvement in oral narratives, and 3 times more

Link

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REMEDICATION TIME: TIER 2 VS IEP

- **Age-matched. Sound-matched comparison:**
 - **Average time to full remediation:**
 - **Tier 2: ~2.5 hours**
 - **IEP peers: ~15.5 hours**
- **Tier 2 students achieved remediation in approximately 1/6 the time.**

ONE STUDENT

REFERRAL MEETING
INITIAL PAPERWORK
CONTACTING
PARENT/CONSENT
TRACKING THAT
PAPERWORK DOWN
EVALUATION
RESCHEDULING
EVALUATION
ACTUAL EVALUATION
ANALYSIS/WRITE UP

IEP MEETING
COORDINATION
ACTUAL
IEP MEETING
PROGRESS MONITORING
WEEKLY TX TIME
MTSS MEETINGS
RE-EVALUATIONS
PARENT MEETINGS
WE NEED COVERAGE!
CAN YOU COME LISTEN TO...

REFLECTION

**Which part of this iceberg takes
up most of your week?**

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WHY THIS MODEL ACCELERATES REMEDIATION

- **1. Dedicated, high-efficiency intervention**
 - **Short sessions, consistent scheduling, no missed cycles**
- **2. Built on the Science of Learning**
 - **High-success practice, immediate corrective feedback, repetition before generalization, mastery-driven progression**
- **3. Explicit visual & articulatory feedback**
 - **Clear placement cues, sound-symbol integration, reduced cognitive load**

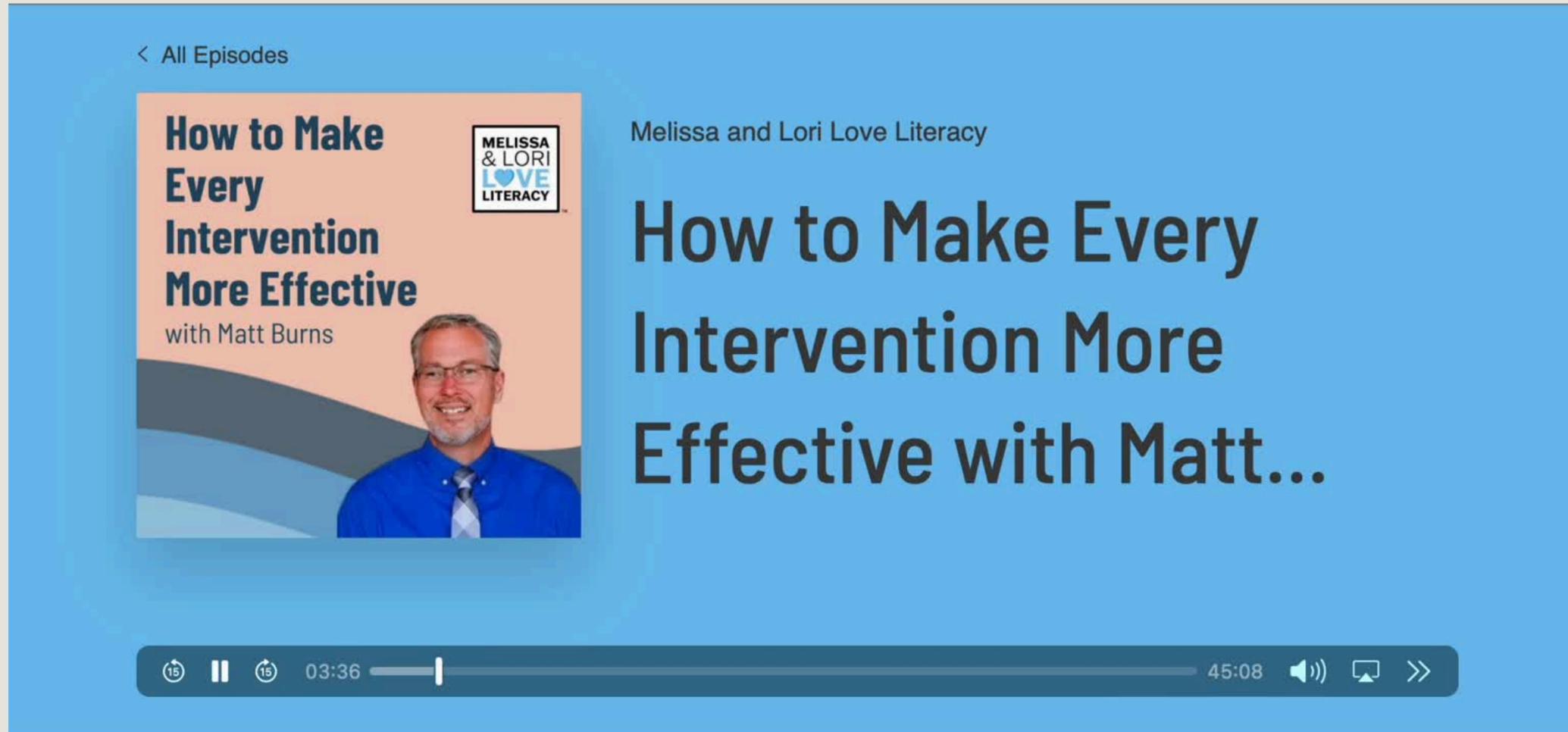
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FROM ACCURACY TO AUTOMATICITY TO GENERALIZATION

- **1. Accuracy builds motor plans**
 - **High-accuracy practice stabilizes correct speech motor patterns.**
 - **Motor learning research supports repetitive, feedback-rich practice early in acquisition.**
- **2. Massed practice supports acquisition**
 - **Early skill development benefits from frequent, concentrated practice.**
 - **Distributed practice strengthens long-term retention.**
- **3. Generalization must be engineered**
 - **Transfer does not occur automatically.**
 - **Structured opportunities for increasing complexity are required.**

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LEARNING PHASES



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WHY ACCURACY MUST COME FIRST

- **Repeated inaccurate productions reinforce incorrect motor patterns.**
- **High error rates slow consolidation of stable speech representations.**
- **Early high-success practice strengthens phonological and motor encoding.**
- **Automaticity develops only after stability is achieved.**

PRODUCTIVE FAILURE

< All Episodes

How to Make Every Intervention More Effective
with Matt Burns

MELISSA & LORI LOVE LITERACY

Melissa and Lori Love Literacy

How to Make Every Intervention More Effective with Matt...

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ANATOMY OF A HIGH-IMPACT SESSION

- **Explicit visual placement cues (articulation visuals + modeling)**
- **High-success production practice (accuracy before speed)**
- **Anticipate and prevent error rehearsal**
- **Immediate, specific feedback**
- **Instruction only-no data collection during practice**
- **Word level → Structured conversation**

VISUAL PLACEMENT CUES

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PROGRESS MONITORING: PROTECTING THE INTEGRITY OF THE CYCLE

Why It Matters

- **Drives clear exit, continue, or refer decisions**
- **Prevents therapy from becoming maintenance**
- **Ensures instructional impact is measurable**

How It's Structured

- **Conducted separately from therapy sessions**
- **No cueing or teaching during probes**
- **Same conditions as baseline**
- **Scheduled, dedicated time**

CASE STUDY: WM (KINDERGARTEN)

- **Speech sound profile
(Initial presentation):**
 - **Errors on: K/G**
 - **Errors on: S/Z**
 - **Errors on: R/S/L blends**
 - **Errors on: SH/ZH, CH/J**
- **Broad speech sound
impact across:**
 - **Stops**
 - **Fricatives**
 - **Affricates**
 - **Blends**

CASE STUDY: WM RAPID REMEDIATION IN TIER 2

- **Total tier 2 instruction time: ~4.5 hours**
- **Full remediation of K/G and S-blends**
- **Systemic phonological change observed**
 - **Additional sounds remediated without direct targeting:**
 - **SH/ZH, CH/J, S/Z**

CASE STUDY: AM (KINDERGARTEN)

- **Speech sound profile**

(Initial presentation):

- **Errors on S-blends**
- **Errors on CH/J**
- **Errors on SH/ZH**

- **Impact:**

- **Reduced intelligibility in connected speech**
- **Distortions and substitutions across fricatives and affricates**

AM: TIER 2 OUTCOMES

- **Target sounds:**
 - **S-blends, SH/ZH, CH/J**
- **Service delivery:**
 - **3x/week**
 - **5-minute sessions**
- **Total direct instruction time:**
 - **~290 minutes (≈ 4.8 hours)**
- **Outcome:**
 - **Full remediation of target sounds**
 - **Generalized to structured conversation**

WAIT AND SEE? A CASE EXAMPLE

- **Speech sound profile**
- **(Initial presentation):**
 - **Did not pass screener**
 - **Errors on: K/G and S-blends**
 - **Parents declined Tier 2 support**
- **One year later:**
 - **Did not pass screener again**
 - **Same error patterns**
 - **No spontaneous resolution**

WAIT AND SEE? A CASE EXAMPLE

- **Intervention**
 - **Just under 2.5 hours for full sound error remediation (155 minutes)**
 - **Time alone did not resolve the errors-structured intervention did.**

ETHICAL & PROFESSIONAL SAFEGUARDS

- **Tier 2 is not a denial of services.**
- **It is an early intervention pathway.**
- **Students are:**
 - **Universally screened**
 - **Progress monitored with objective data**
 - **Provided time-limited, structured intervention**
- **Referral occurs when:**
 - **Minimal or no response to intervention**
 - **Errors persist beyond expectations**
 - **Co-occurring language or broader communication concerns are present**
- **Prevention does not replace evaluation- It informs it.**

CASE STUDY: TIER 2 → EVALUATION → SHORTER IEP DURATION

- **Student referred by teacher (4th grade)**
- **Tier 2 intervention trial:**
 - **160 minutes of structured instruction**
- **Response:**
 - **Partial improvement**
 - **Referred for formal evaluation**
- **Impact of Tier 2 trial:**
 - **Foundational skills already established**
 - **Accelerated progress once on IEP**
- **Total therapy time to remediate /r/: ~6 hours**

ETHICAL CONSIDERATIONS: STUDENT IMPACT

- **When early, structured intervention can remediate errors efficiently:**
 - **Students spend less time in long-term services**
 - **Students remain in classroom instruction**
 - **Students experience faster success**
 - **Access to effective, timely intervention supports equity.**
 - **Early support protects instructional time.**
 -

PROFESSIONAL IMPACT

- **Fewer speech-only evaluations**
- **Reduced kindergarten caseload size**
- **More time for students with complex communication needs**
- **Less maintenance therapy**
- **Increased clarity in service delivery**
- **Improved job satisfaction**

Prevention shifts workload from reactive to strategic.

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REFLECTION

What would change in your job satisfaction if your speech-only caseload dropped by half?

SYSTEMS-LEVEL IMPACT

- **Stronger foundations in early grades**
- **Reduced long-term IEP duration**
- **Clearer referral pathways**

Prevention strengthens the entire system.

SUSTAINABLE OUTCOMES REQUIRE SUSTAINABLE SYSTEMS

- **High-impact intervention cannot rely on overload.**
- **Prevention requires:**
 - **Structured models**
 - **Protected time**
 - **Clear roles**

Systems must support the work.

CONDITIONS FOR SUCCESSFUL IMPLEMENTATION

- **Administrative support for prevention-focused service delivery**
- **Consistent universal screening procedures**
- **Dedicated interventionist to maintain intensity and fidelity**
- **Reliable data tracking system to guide entry, progress, and exit**

KEY TAKEAWAYS

- 1. Many kindergarten speech sound errors respond quickly to early intervention**
- 2. Prevention can reduce long-term speech-only IEPs**
- 3. The Science of Learning matters**
- 4. Short, high-frequency sessions accelerate learning**
- 5. Prevention strengthens the entire system**

ACTION PLAN

Step 1: Start With Your Own Caseload

Step 2: Use Data to Start the Conversation

Step 3: Work Toward a Prevention Model

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THANK YOU!

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REFERENCES

Almost, D., & Rosenbaum, P. (1998). Effectiveness of speech intervention for phonological disorders: A randomized controlled trial. *Developmental Medicine & Child Neurology*, 40(5), 319–325.

Archer, A. L., & Hughes, C. A. (2011). *Explicit instruction: Effective and efficient teaching*. Guilford Press.

Baker, E. (2011). Evidence-based practice for children with speech sound disorders: Part 1 narrative review. *Language, Speech, and Hearing Services in Schools*, 42(2), 102–139.

Bootsma, J. M., Caljouw, S. R., Veldman, M. P., Maurits, N. M., & Hortobágyi, T. (2020). Failure to engage neural plasticity through practice of a high-difficulty task is accompanied by reduced motor skill retention in older adults. *Neuroscience*, 451, 22-35.

Bridger, E. K., & Mecklinger, A. (2014). Errorful and errorless learning: The impact of cue-target constraint in learning from errors. *Memory & Cognition*, 42(6), 898-911.

Cummings, A., Halliday, L. F., & Oates, J. (2019). Speech intervention outcomes associated with word lexicality and intervention intensity. *Journal of Speech, Language, and Hearing Research*, 62(4), 1052–1070.

REFERENCES

Ehri, L. C. (2014). Orthographic mapping in the acquisition of sight word reading, spelling memory, and vocabulary learning. *Scientific Studies of Reading*, 18(1), 5–21.

Joo, S. J., Tavabi, K., Caffarra, S., & Yeatman, J. D. (2021). Automaticity in the reading circuitry. *Brain and Language*, 214, 104906.

Karpicke, J. D., & Roediger, H. L. (2008). The critical importance of retrieval for learning. *Psychological Science*, 19(9), 966–968.

LaBerge, D., & Samuels, S. J. (1974). Toward a theory of automatic information processing in reading. *Cognitive Psychology*, 6(2), 293–323.

Lee, T. D., Elias, K. L., Gonzalez, D., Alguire, K., & Dhaliwal, C. (2016). On the role of error in motor learning. *Journal of Motor Behavior*, 48(2), 99-115.

REFERENCES

Lewis, B. A., Freebairn, L. A., & Taylor, H. G. (2011). Academic outcomes in children with persistent speech sound disorders. *Journal of Communication Disorders, 44*(3), 255–268.

Mire, S. P., & Montgomery, J. K. (2009). Early intervening for students with speech sound disorders: Lessons from a school district. *Communication Disorders Quarterly, 30*(3), 155–166.

National Institute of Child Health and Human Development. (2000). *Report of the National Reading Panel: Teaching children to read* (NIH Publication No. 00-4769). U.S. Government Printing Office.

Wong, Y. T. Y., Yuen, H. K. H., Yam, T. Y. T., & Capio, C. M. (2026). A systematic review and meta-analysis of the effects of errorless motor learning on movement outcomes. *Frontiers in Psychology* (in press).

Wren, Y., Harding, S., Goldbart, J., & Roulstone, S. (2018). A systematic review and classification of interventions for speech sound disorder in preschool children. *International Journal of Language & Communication Disorders, 53*(5), 867–884.