

RESEARCH

LETRS Logic Model

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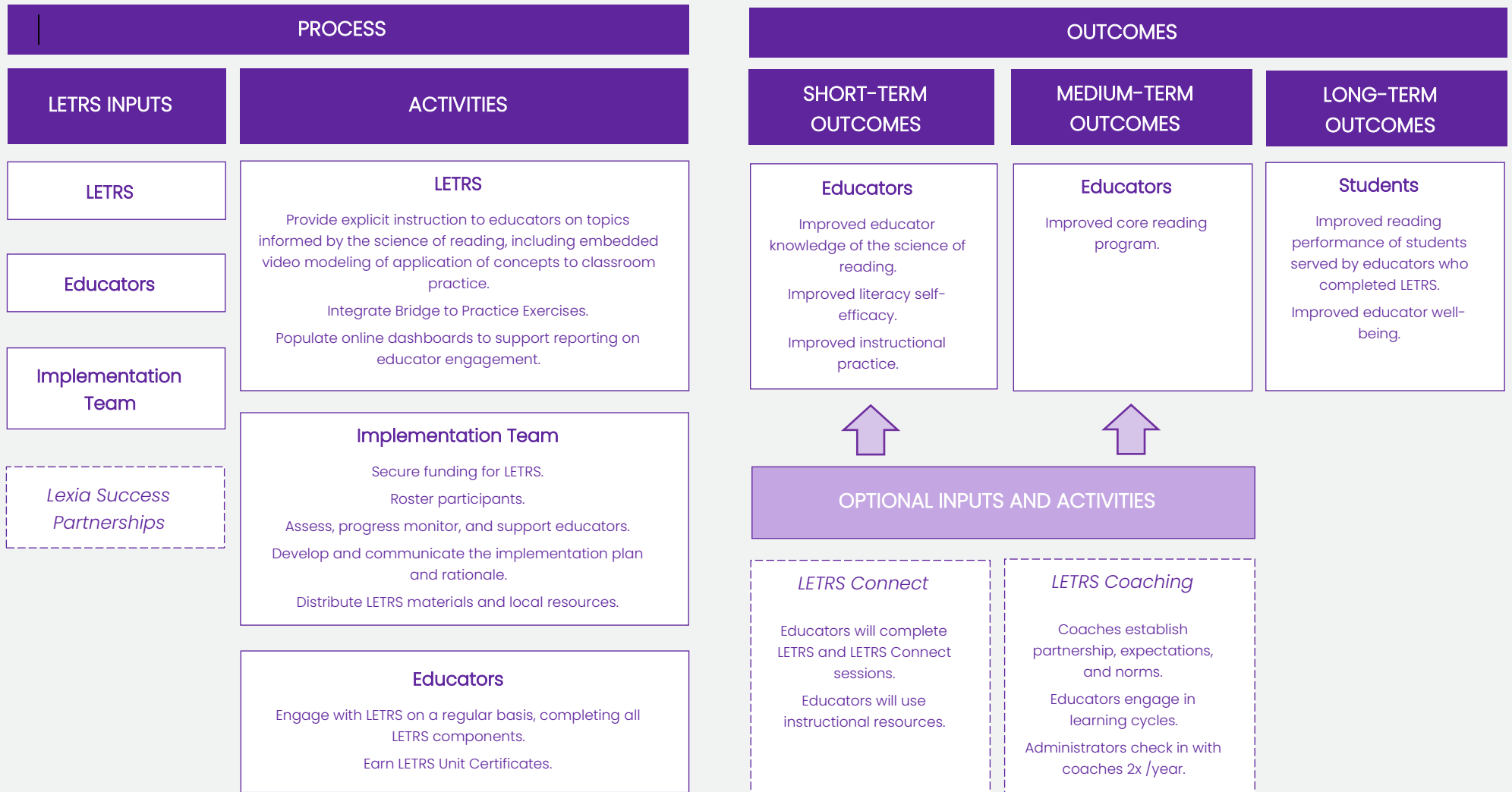
LETRS Program Logic Model

Nationwide, only about 33% of fourth grade students are reading at a proficient level (NAEP, 2024). Educators have the single greatest in-school impact on student learning (e.g., Chetty et al., 2014; Rockoff, 2004), but according to the National Council of Teacher Quality, only 51% of higher education teacher preparation programs include content on reading science. Lexia® LETRS (Language Essentials for Teachers of Reading and Spelling) is comprehensive professional learning designed to provide early childhood and elementary educators and administrators with deep knowledge to be literacy and language experts in the science of reading. Originally developed by Dr. Louisa Moats and leaders in the field of literacy, Lexia LETRS teaches the skills needed to master the foundational and fundamental aspects of reading and writing instruction – phonological awareness, phonics, fluency, vocabulary, comprehension, and written language. Lexia® Success Partnerships, Lexia® LETRS® Coaching™, and Lexia® LETRS® Connect™ are optional additions to LETRS intended to enhance the impact of LETRS on teacher knowledge, instructional impact, and student reading.

LETRS is a professional learning course for educators who aim to improve literacy outcomes for students.

The LETRS Program Logic Model is a visual representation of how LETRS is expected to affect schools, educators, and students prior to accounting for contextual factors. It helps satisfy the “demonstrates a rationale” level of evidence for the effectiveness of an educational program, as described by the Every Student Succeeds Act (ESSA). It also clarifies how Lexia Success Partnerships, LETRS Coaching, and LETRS Connect are expected to influence LETRS implementation and impact. The primary purpose of the logic model is to guide LETRS planning and implementation efforts by identifying short-, medium-, and long-term goals related to program implementation. The logic model can also be used to inform evaluation efforts, but evaluators should additionally consult the LETRS Theory of Change, (see below), which describes the rationale behind the model, and how factors outside of LETRS are expected to affect the program’s implementation, output, and outcomes.

LETRS Program Logic Model



The *LETRS Program Logic Model* is divided into two main parts: process variables and outcome variables. The process variables are the inputs and activities, and outputs that constitute the essential components of a LETRS implementation. Most of the process variables can be measured using LETRS program data. The few exceptions, which are described below, should be measured using local data sources. The outcomes are the variables that LETRS is intended to change. Outcome variables are grouped into three phases: short-term, medium-term, and long-term. Variables within a phase are not necessarily expected to occur simultaneously. At present, the logic model does not describe the potential relationships between outcomes within a phase. The logic model also identifies advanced and post-implementation optional inputs, namely, LETRS Connect and LETRS Coaching, which are sold separately from LETRS.

LETRS Inputs

Inputs describe the key additions necessary to implement LETRS. Inputs can be broadly divided into two variable categories: the program itself, and the people involved in its use. In the case of LETRS, people include educators, a school/district implementation team, and optional implementation support in the form of Success Partnerships. Each category of input variable is described in more detail below.

Program. [LETRS](#) is a 2-year professional learning course for educators who aim to improve reading outcomes for students. It provides educators with in-depth knowledge and tools that they can use with any reading core curriculum. This dynamic blended learning experience can be implemented using one of two models.

The guided learning model includes three components:

- LETRS Online Learning Platform
- LETRS Print Manual
- LETRS Professional Learning Sessions

The self-directed model consists of two components:

- LETRS Online Learning Platform
- LETRS Print Manual

The Print Manual consists of two four-unit volumes and aligns with the online learning platform. Volume 1 takes about 46-63 hours to complete, and Volume 2 takes 43-57 hours to complete. The Professional Learning Sessions can be delivered in two modes: Live In-Person or Live Online.

Educators. LETRS is used by educators working with students in pre-K through grade 3, as well as for teachers who work with fourth- and fifth-grade students who are at-risk for or experiencing reading difficulties. Educators bring various backgrounds, experience, knowledge, and skill to the process of implementing the program. The LETRS Program Logic Model assumes that each educator's unique constellation of personal characteristics will contribute to program implementation in different ways. Effective evaluations of LETRS should therefore seek to identify and control for relevant educator characteristics.

Implementation Team. The LETRS Implementation Team consists of course manager(s) and school, district, and/or state leaders. The purpose of the LETRS Implementation team is to ensure local support for LETRS implementation and collaboration with Lexia team members. To reap the full benefit of LETRS, it is essential that the LETRS Team implements LETRS with fidelity. At a minimum, the LETRS Implementation Team should equip participants to use LETRS in accordance with the [LETRS Implementation Team Guide](#) and [other supporting documentation](#).

Success Partnerships (Optional). Lexia offers implementation support in the form of [Success Partnerships](#). Various levels of support are available to customers through Success Partnerships. All levels include a Customer Success Manager that guides school, district, or state leaders through the implementation process and helps monitor progress, as well as a flexible combination of live online and asynchronous professional learning sessions.

LETRS Coaching (Optional). LETRS Coaching is an additional program that is intended to provide LETRS learners with continuous support to help effectively integrate LETRS learnings into daily classroom practice. LETRS Coaching extends the journey for LETRS learners by providing collaborative, personalized, one-on-one coaching that emphasizes teacher voice, reflection, and practical classroom application. Delivered virtually, each live online coaching session empowers educators to co-create strategies with a dedicated coach. Through LETRS Coaching, educators refine their instructional practice, foster professional growth, and deepen their engagement with the science of reading.

LETRS Connect (Optional). [LETRS Connect](#) is an additional program that provides LETRS learners with the opportunity to further develop and deepen their understanding of the science of reading while also reaching back to access their prior LETRS learnings. By empowering learners with insights into the latest literacy research and instructional best practices, LETRS Connect supports educators and leaders in continuing to cultivate and apply evidence-based instructional routines. The purpose of LETRS Connect is to sustain and deepen educator knowledge of the science of reading.

LETRS Activities

The LETRS program, participating educators and a local implementation team are necessary but insufficient to achieve LETRS's intended outcomes. Achieving program outcomes is a process that depends upon specific activities occurring. These activities specify what each input variable *does* to produce the intended short- and long-term outcomes. Activities are sometimes conceptualized as action variables, as they capture the actions necessary to achieve desired outcomes.

Program. LETRS provides explicit instruction to educators that addresses essential components of reading instruction and the foundational concepts that link to each component. This includes theoretical models from reading science, phonology, basic and advanced phonics, screening, and educational diagnostic assessment, as well as teaching vocabulary, language and reading comprehension, and writing. Embedded video modeling demonstrates how to deliver effective instruction and how to apply concepts to classroom practice.

Throughout LETRS, Bridge to Practice opportunities allow teachers to apply evidence-based concepts and best practices to daily classroom instruction. The online Bridge to Practice exercises are designed to bolster transference of knowledge to classroom practice. Explicit directions are provided as well as downloadable tools for support.

Finally, LETRS populates dashboards with data about educators' participation. The program gives participants and administrators the ability to measure participation and knowledge gains and the flexibility for teachers to have agency over their learning.

Implementation Team. To implement LETRS, the LETRS Implementation team will:

- Secure funding to purchase LETRS licenses for educators.
- Develop and communicate the implementation plan and rationale to educators and other relevant stakeholders.
- Work with Lexia to roster participants into the LETRS Online Learning Platform and send onboarding communications to the participants.
- Distribute LETRS materials and local resources, including time for course completion, access to technology, and any relevant local materials that LETRS completion is intended to enhance, such as valid, reliable, and research-aligned assessments and evidence-based curricular programs.

Once educators have begun LETRS, the LETRS Implementation Team will use the LETRS Online Learning platform to assess, progress monitor, and support educator course completion. If the implementation is a guided implementation (i.e., includes Professional Learning sessions), the local LETRS Implementation Team will work with Lexia Customer Success team to schedule Professional Learning sessions in accordance with their school/district calendar.

The LETRS team should give careful thought to the implementation of program activities to maximize the extent to which all educators complete all LETRS components. It is recommended that the local LETRS implementation team prioritize the completion of LETRS and create an enabling context for educators by providing the time and a rationale for completing the course. Program implementers and evaluators should note that comprehensively measuring program activities requires access to local data sources, such as those that describe implementation plans and completion of Bridge to Practice activities. LETRS program data will only describe the extent to which rostered participants completed all LETRS components. Course completion is important because positive outcomes may depend on educators successfully completing the course.

Educators. Educators' core responsibilities include regular engagement with LETRS, completing all components of the program. The primary output of LETRS is course completion, which can be described by the number of LETRS unit certificates earned, Bridge to Practice portfolios completed and the number and type(s) of educators impacted by the course.

The figure below illustrates the course structure of LETRS, and the approximate amount of time required to complete a Guided Learning implementation. Each volume of LETRS begins with a pre-test and ends with a post-test that assesses knowledge of the volume’s content. Each volume is divided into four units, each of which culminates in a unit assessment.

LETRS Course Structure

	Online, Reading, & Classroom Activities	Face-to-Face/ Live Online
Volume 1 Pre-Test		
Unit 1	10-14 Hours	6 Hours
Unit 2	11-16 Hours	6 Hours
Unit 3	12-17 Hours	6 Hours
Unit 4	14-18 Hours	6 Hours
Volume 1 Post-Test		
Volume 2 Pre-Test		
Unit 5	11-14 Hours	6 Hours
Unit 6	11-14 Hours	6 Hours
Unit 7	10-13 Hours	6 Hours
Unit 8	12-17 Hours	6 Hours
Volume 2 Post-Test		

Educators receive a certificate accredited by the International Dyslexia Association for every unit they complete in the Online Learning Platform. They will receive a Certificate of Completion if they earn a unit score of less than 80%. They will earn a Certificate of Mastery if they earn a unit score of 80% or higher. While completing the units, educators must attest that they have completed Bridge to Practice portfolios that include classroom activities, such as student case studies, lesson plans, graphic organizers, data analysis activities, journal entries and self-reflection on practice.

Success Partnerships (Optional). Success Partnerships are optional implementation support services available to LETRS customers. Each Success Partnership includes an assigned Customer Success Manager (CSM) who coordinates all Success Partnership activities. CSMs leverage expertise in literacy and language learning, practitioner experience, product knowledge, and implementation best practices to partner with and support school, district, or state leadership in planning for and managing LETRS implementations. Each Success Partnership begins with a Success Planning Meeting in which CSMs partner with leadership to identify needs and develop a comprehensive Success Plan. CSMs and leadership also engage in regular Success Metric/Strategy Meetings across the school year. At these meetings, the Success Plan is reviewed and revised based on implementation experiences and challenges. Finally, the CSM coordinates kick-off events for LETRS participants that are designed to promote buy-in and build enthusiasm and supports leadership in scheduling Professional Learning sessions.

LETRS Coaching (Optional). LETRS Coaching is a distinct program available to LETRS learners. When this program is implemented with LETRS, participating educators will work with well-qualified LETRS coaches. The bulk of coaching activities occur within the LETRS Coaching platform as coaches and educators engage in learning cycles. Each educator participating in LETRS Coaching has access to either 6 or 12 individualized live online coaching sessions. The number of learning cycles started and/or completed during these sessions will vary based on the individual needs of each educator and the goals that educators and coaches choose to address. Within each learning cycle, the LETRS coach and participating educator will (1) review data and set goals, (2) identify needs and strategies, (3) create a plan, (4) demonstrate strategies, (5) debrief, and (6) iteratively apply targeted strategies in the classroom. Coaches and administrators will engage in periodic touchpoints during LETRS Coaching, meeting up to two times throughout the year. At these meetings, the LETRS coach will provide administrators with a high-level overview of coaching provided to educators under their supervision.

LETRS Connect (Optional). LETRS Connect is a distinct program intended for advanced and post-LETRS implementations. LETRS Connect provides educators with continued access to the previously completed LETRS course content and resources; a library of sessions from leading science of reading experts; Check for Understanding assessments to test knowledge growth; an enhanced resource library designed to support educators in their classrooms; and access to live online events with researchers, practitioners, and subject matter experts. In contrast to

LETRS, there is not a fixed endpoint to LETRS Connect. Educators are expected to use LETRS Connect to deepen and extend their knowledge to improve their classroom instruction.

Measuring all LETRS output requires access to LETRS program data, as well as local data sources. Currently, LETRS data can be used to describe the number of educators who complete LETRS, as well as the type of certificates they earned. However, LETRS data do not assess the quality of the Bridge to Practice portfolios. This output must be assessed locally in accordance with applicable rules and regulations. Evaluators should consider that even though all trained educators receive unit certificates, the number of LETRS-trained educators may vary across schools and districts because of differing implementation plans and completion rates, which may have ramifications for program outcomes.

LETRS Short-Term Outcomes

Short-term outcomes are the most immediate, measurable impacts of LETRS. These proximal effects indicate expected progress towards the medium- and long-term outcomes of LETRS and are appropriate targets for interim assessments of program impacts and efficacy.

Educators. In the short-term, LETRS is intended to increase educator knowledge of reading content and pedagogy. Educators will:

- Understand how language, reading, and writing relate to one another.
- Be able to distinguish between the research base for best practices and other competing ideas not supported by scientific evidence.
- Be equipped to make instructional decisions and program choices with reference to scientific evidence.
- Be able to validate and affirm diverse experiences through an inclusive understanding of language development.

Improvements in educator knowledge will be accompanied by an increase in educator literacy self-efficacy. Educators will believe they can deliver effective reading instruction. These outcomes will also be accompanied by improved instructional practice. With minimal support from administrators, educators will make initial adjustments to their instruction to incorporate more evidence-based practices, such as explicit instruction on foundational reading skills.

The above outcomes are expected to be enhanced among educators who have completed LETRS Connect and LETRS Coaching. LETRS Connect is specifically intended to increase educator knowledge of the latest developments in the science of reading and their ability to evaluate curricular resource alignment with the science of reading. LETRS Coaching facilitates guided practice that is intended to help educators translate their knowledge into improved reading instruction.

LETRS Medium-Term Outcomes

Expected medium-term outcomes of LETRS reflect intermediate goals of the program, and may emerge only after short-term outcomes are observed.

Implementation Team. In the medium-term, LETRS is intended to improve the school's core reading program, providing a foundation for sustained school-level improvement. With sustained administrative support, educators will use their improved knowledge to advocate for and implement technically adequate assessments and evidence-based instructional interventions that meet the needs of all students. They will be better able to deliver comprehensive, integrated language and reading instruction as defined by standards and research for a given grade, age, or ability level. They will also be better able to facilitate early identification and evidence-based interventions with reading challenges, including dyslexia. These outcomes are expected to be enhanced among educators who have completed LETRS Connect and LETRS Coaching because LETRS Connect is intended to improve the ability of educators to evaluate curricular resource alignment with the science of reading, and LETRS Coaching helps facilitate the translation of knowledge into instructional practice.

LETRS Long-Term Outcomes

Expected long-term outcomes of LETRS reflect ultimate goals of the program. More distal in time, long-term outcomes may emerge only after short- and medium-term outcomes are observed.

Educators. In the long-term, LETRS is intended to improve student reading performance. Improvements in student reading performance are expected to be observed across domains (e.g., word reading fluency, reading comprehension), but it is currently unclear whether LETRS should be expected to benefit all areas of reading to the same extent. Evaluators should

consider that LETRS Volume 1 is focused primarily on Word Recognition, while LETRS Volume 2 is focused primarily on Language Comprehension.

Educator well-being is a broad construct that encompasses measures of burnout, stress, job satisfaction, and job commitment. It is typically considered a distal outcome affected though changes in self-efficacy but may additionally require improvements to student reading performance. It is expected that improvements in educator well-being will typically lag behind improvements in student reading performance.

It is important to emphasize that the short-term and medium-term outcomes are thought to be insufficient but necessary conditions for observing improved long-term outcomes. That is, improved student reading performance and educator well-being may depend on educators first improving their knowledge, instructional practice, and self-efficacy and schools improving their core reading program. To the extent that short-term and medium-term outcomes are not observed, long-term outcomes may be attenuated. That said, the intensive and foundational nature of LETRS content is hoped to result in small but long-lasting benefits to the long-term outcomes. Long-term outcomes are expected to be enhanced among educators who have completed LETRS Connect and LETRS Coaching.

LETRS Theory of Change

The LETRS theory of change describes how LETRS is hypothesized to work in a local or state context. It is intended to be used with the LETRS Program Logic Model to aid evaluators in the development of an informative research plan.

For experimental and quasi-experimental research, it is recommended evaluators use the LETRS Program Logic Model and Theory of Change to create an *evaluation logic model* that contrasts the use of LETRS with a counterfactual condition in which LETRS, or a component of LETRS, is not used. It is important for evaluators to develop an evaluation logic model based on the LETRS Program Logic Model and the LETRS Theory of Change to promote the validity of their research. Studies that do not measure implementation, account for rival theories of change, or address possible sources of treatment variation due to external factors have a limited ability to promote accurate inferences about the efficacy of a given program (Peck, 2020).

Other evaluation strategies, such as correlational and qualitative research, may wish to reference the LETRS Program Logic Model and the LETRS Theory of Change to identify program components or mechanisms that warrant special consideration. For example, it may be informative to describe the local context of a LETRS administration, or richly describe how a single input was implemented.

Program Administration

LETRS is intended to be administered by organizations with an interest in the professional development of educators, such as education agencies. It is expected that organizations will use LETRS to remediate historical shortcomings in teaching preparation in the science of reading (e.g., Brady et al., 2009; Drake & Walsh, 2020; Greenberg et al., 2013; Joshi et al., 2009; Malatesha Joshi et al., 2009). Organizations that use LETRS will have different organizational contexts. They may differ in their missions and structures; resources and expenses; policies and purposes; administration plans; and overall capacity. These differences in organizational context are expected to influence the use and implementation of LETRS, and by extension, program outputs and outcomes (e.g., Højlund, 2014).

Program Components

The program components of LETRS consist of LETRS inputs and the activities that facilitate their use. There are two implementation models of LETRS. The self-directed model consists of the Online Learning Platform and the Print Manual. The guided implementation model consists of an additional component: Live online or live in-person Professional Learning Sessions. LETRS content is divided into eight units. The eight LETRS units are intended to address critical knowledge about reading that is often not sufficiently taught in educator preparation programs, such as phonology and text organization (Bos et al., 2001; Fielding-Barnsley, 2010; Moats, 1994, 2009, 2014; Oakhill et al., 2019; Schuele et al., 2011). The rationale for emphasizing this content is that certain reading skills are not acquired by children unless they are explicitly taught (Olson et al., 2014; Seidenberg, 2013). LETRS aims to provide educators the background knowledge necessary for teaching these skills, which is a research-driven objective (e.g., Lyon & Weiser, 2009; Piasta et al., 2009).

Given the purpose and design of LETRS, it is expected that the local LETRS Implementation Teams will promote the use of all the components of their selected implementation model, adherence to the LETRS implementation guide, and ultimately, the completion of all eight units. To achieve these ends, the LETRS Implementation Team is expected to communicate the implementation plan and rationale for adopting the program to participating educators. They are expected to work with Lexia to roster participants into the LETRS Online Learning Platform, inform participants that they have been enrolled, and distribute all resources needed for course completion, including time, access to technology, and local curricular materials. In the guided implementation model, they are also expected to work with Lexia to schedule Professional Learning sessions.

Once participants have begun LETRS, the LETRS Implementation Team is expected to assess, progress monitor, and support educator course completion to ensure that LETRS is implemented with fidelity. It is assumed that school systems will aim to have all enrolled educators successfully complete LETRS. To the extent possible, evaluators should describe the extent to which program activities occurred in accordance with the publisher's assumptions and expectations.

Exploratory research has found that optional [Lexia Success Partnerships support LETRS progress and knowledge gains](#). A significantly higher number of LETRS participants in a district

with a Success partnership completed the full two-volume course than participants in districts without a partnership. Participants in the Success Partnership district also progressed through the program more quickly, completed more units of study, and showed greater knowledge gains on the LETRS volume tests.

Organizations that have already implemented LETRS can optionally implement LETRS Connect and LETRS Coaching. The key principles behind LETRS Coaching were drawn from a meta-analysis that examined the effects of coaching in 60 studies that each employed causal methods (Kraft et al., 2018). The inclusion of periodic check-ins with administrators or instructional leadership in the LETRS Coaching Logic Model is based in implementation science research, which has demonstrated the importance of school leadership in creating a climate that is conducive to the implementation of evidence-based strategies such as those learned in LETRS (Aarons et al., 2014; Lyon, 2017).

Outputs

The primary output of LETRS is course completion. Course completion can be described in terms of the number of LETRS certificates earned, Bridge to Practice portfolios completed, and educators trained. These outputs indicate the extent to which requisite activities for improving knowledge, reading self-efficacy, and instruction have taken place.

The unit certificates and Bridge to Practice portfolios are necessary but insufficient outputs for observing program outcomes. If they are not obtained with fidelity, there should be little expectation that improved outcomes will be observed. For the purpose of most evaluations, LETRS unit test scores can be treated as proxies for unit certificates because a certificate is always provided for successful unit completion. Scores lower than 80% result in a Certificate of Completion. Scores over 80% result in a Certificate of Mastery. The quality of LETRS Bridge to Practice portfolios is not currently assessed within the Online Learning Platform. Rather, educators simply attest that they have completed the activities that comprise the Bridge to Practice activities. Evaluators interested in understanding the Bridge to Practice portfolios should plan to collect the relevant data independently.

The number of educators who complete LETRS is a necessary but insufficient output for improving outcomes that are measured at higher levels than the educator. As indicated above, program outcomes are only expected to improve among educators who complete LETRS. However, organizations will vary in the extent to which they enroll their educators in LETRS.

To observe outcomes in units of analysis larger than the classroom (e.g., school, district, or state), a greater number of educators may need to complete LETRS. For example, it is unlikely that a single educator can improve average reading achievement for their entire school even if they successfully complete LETRS. Similarly, some outcomes, such as an improved core reading program, may require a coordinated effort among school personnel and changes to school infrastructure, suggesting a benefit to training a greater number of educators in LETRS, as well as a benefit to administrators completing [LETRS for Administrators](#). Evaluation efforts should correspond to local implementation plans, which may or may not include all educators within an organization.

Outcomes

LETRS is hypothesized to improve educator knowledge, reading self-efficacy, and instructional practice as short-term outcomes. Change in these short-term outcomes is hypothesized to improve core reading programs, a medium-term outcome. Improvements in core reading programs are in turn hypothesized to improve long-term outcomes, including student reading performance and educator well-being. A comprehensive summary of LETRS impact evidence is available in the [Lexia LETRS Efficacy Research document](#). The sections that follow describe the theoretical interrelationships among outcomes.

Short-term Outcomes. LETRS is designed to improve educator knowledge of reading content, reading self-efficacy, and reading instructional practice.

- **Knowledge:** LETRS is intended to help educators understand how language, reading, and writing relate to one another; how to distinguish between the research base for best practices and other competing ideas; how to make instructional decisions and program choices with reference to scientific evidence; and how to validate and affirm diverse experiences through an inclusive understanding of language development. Current research supports the idea that LETRS will improve educator knowledge (Garet et al., 2008; Bills, 2020; Folsom et al., 2017; Gearin et al., 2025). LETRS Connect is designed to increase the likelihood that educators sustain and deepen their knowledge over time. LETRS Coaching is expected to enhance teacher knowledge gains (Darling-Hammond et al., 2017; Kraft et al., 2018; Weiser et al., 2019).
- **Literacy Self-Efficacy:** Literacy self-efficacy describes the self-referential judgments educators make about their capability for teaching literacy (e.g., Cantrell & Hughes, 2008; Tschannen-Moran & Johnson, 2011). LETRS is hypothesized to improve literacy self-

efficacy. Literacy self-efficacy is in turn theorized to have a bidirectional relationship with the quality of classroom processes (Zee & Koomen, 2016). To date, only one study has examined the relationship between LETRS and domain general self-efficacy. The study reported that educators who used LETRS did not score significantly higher in domain-general self-efficacy than educators who did not (Houser, 2021). However, only 3% of educators who used LETRS in that study completed the program, and LETRS is expected to have only weak effects on domain-general self-efficacy. LETRS Coaching is intended to increase the likelihood that improvements in self-efficacy are observed. Research using surveys and interviews to assess teachers' sense of self-efficacy has shown that coaching can contribute to increased efficacy for teaching literacy (Cantrell & Hughes, 2008) and that virtual coaching can contribute to significant increases in teacher efficacy (Vernon-Faegans et al., 2015).

- **Instructional Practice:** LETRS is expected to improve the ability of educators to deliver instruction that is aligned with scientific research, such as explicit instruction in word-reading abilities. A randomized control trial of an 8-day, in-person seminar on the first half of LETRS First Edition reported that the intervention significantly improved educator use of explicit instruction (Effect Size = 0.32) within one academic year (Garet et al., 2008). Descriptive and correlational studies of more recent editions of LETRS likewise suggest that the program can improve instruction (Bills, 2020; Folsom et al., 2017). LETRS Coaching is intended to increase the likelihood of improving reading instruction through improved fidelity of implementation. The components of LETRS Coaching reflect design principles derived from scientific research (e.g., Kraft et al., 2018; Knight, 2018; Wang et al., 2023; Vernon-Faegans et al., 2015).

Medium-Term Outcomes. LETRS is intended to improve the core reading program, or the primary instructional tool used to teach reading. After completing LETRS, educators will be better equipped to identify and implement assessments and curricular materials that are aligned with scientific research. However, organizational characteristics may hinder or prevent them from translating their knowledge into practice. For example, not all schools use curricula that are aligned with scientific research, and not all school leaders will support changes to the school's infrastructure. After completing LETRS, educators may be better able to identify and advocate for curricular materials that are informed by science, but the extent to which they can independently change their instruction may be limited by the availability of curricular material that is aligned with their learning and support from their school leaders. By a similar

logic, schools with initially strong core programs will have less room to grow. LETRS Coaching is specifically intended to enhance the likelihood of observing medium-term outcomes.

For evaluation purposes, it should be noted that increasing the number of educators who complete LETRS training within a school or district is expected to increase the likelihood of observing changes in core programming, as is completion of LETRS for Administrators by school leaders. Many aspects of core programming require a coordinated effort by school personnel (e.g., designing and implementing a screening and evidence-based intervention protocol). It may be the case that schools require both a critical mass of LETRS trained educators and administrative support to observe improvements in core programming. Increasing the number of LETRS-trained individuals within an organization may increase the likelihood of observing improvements.

Long-Term Outcomes. If the proximal and intermediate outcomes of LETRS are observed, student reading outcomes and educator well-being should also improve.

- Research supports the idea that LETRS can improve student reading outcomes. A randomized control trial of a condensed version of LETRS reported that the intervention had a positive but statistically non-significant impact on reading achievement in Grade 2 students within one academic year (Effect Size = 0.08), which is about a quarter of the size of the Black-White achievement gap at kindergarten entry (Chatterji, 2006). A quasi-experiment that investigated the effect of LETRS on foundational word reading skills also found significant positive effects after one academic year (Effect Size = .26) in classrooms that used Lexia® Core5® Reading. Evaluators should consider ramifications of implementation context. For example, a quasi-experiment in the context of Colorado's READ Act reported that LETRS had about the same effect as other professional learning programs at the school-level (Gearin et al., 2025). In this study, an alternative program was provided for free by the state, and levels of program uptake varied considerably across schools, which likely reduced the program's relative impact. LETRS Coaching is expected to increase the likelihood of observing improvements in student learning based on meta-analytic findings that coaching can improve student learning (Kraft et al., 2018).
- LETRS is also hypothesized to improve educator well-being over the long-term. Educator well-being is thought to be bidirectionally related to educator self-efficacy, the quality of classroom processes, and student academics (Zee & Koomen, 2016). Because LETRS is expected to improve classroom processes (e.g., reading instruction), literacy self-

efficacy, and student reading performance, it is also expected that LETRS has the potential to improve educator well-being. Educator well-being is a broad construct, but is often operationalized with measures of job commitment, job satisfaction, and retention, or reduced levels of stress and attrition (Zee & Koomen, 2016). As is the case with student reading outcomes, the effect of LETRS on well-being is expected to be modest and dependent on short-term and medium-term outcomes.

Context and Population

The administration, implementation, output, and outcomes of LETRS will be affected by external factors, such as the context (e.g., locale, time period) and population (e.g., type of educator, student grade level) in which they are observed. Though it would be impractical to identify every external factor that could influence the use and impact of LETRS, evaluators should be cognizant of factors with a high likelihood of affecting impact:

Lexia Programs. It is hypothesized that use of additional Lexia programs will moderate the effect of LETRS. As noted above, Customer Success Partnerships are intended to improve the implementation of LETRS, and there is initial evidence that they do so effectively. LETRS Connect and LETRS Coaching are intended to directly improve the impact of LETRS on short-term and medium-term outcomes, which is necessary for observing improvements in long-term outcomes. There is also [initial evidence](#) that LETRS may be more likely to improve long-term outcomes when educators have access to student-facing programs aligned to the science of reading, such as Core5.

Policy Context. The policy context will influence the use and impact of LETRS. For example, many states have policies that require educators to receive professional development on dyslexia and scientific research on reading (e.g., Gearin et al., 2018, 2021). If LETRS is used to satisfy such a requirement, the implementation of LETRS may be affected by other aspects of the policy, such as external pressures or incentives (e.g., teacher evaluation frameworks; student retention policies); required timelines for course completion; required use of the program; and use of the program beyond the intended audience. These factors may facilitate or hinder LETRS implementation and have corresponding effects on program outputs and outcomes.

Educator Characteristics. Educator characteristics will also affect the use and impact of LETRS. Prior to using LETRS, educators will differ in characteristics such as background knowledge,

motivation, self-efficacy, instructional ability, decision-making authority, years of experience, and setting. These differences will likely affect the use and impact of LETRS (e.g., Cunningham et al., 2004; Piasta et al., 2009; Tschannen-Moran & Johnson, 2011). For example, educators with initially high ratings of background knowledge, self-efficacy, and instructional practice theoretically have less room to grow from LETRS; and educators with low levels of motivation may be less likely to complete the program with fidelity.

School Characteristics. Just as educator characteristics will affect the use and impact of LETRS, so too will school characteristics. Prior to using LETRS, schools will differ in the extent to which they use curricular materials that are aligned with scientific research, and the extent to which they have effectively implemented a multi-tiered system of support (e.g., Berkeley et al., 2020; Mellard et al., 2010). These and other between-school differences imply that schools will differ in the extent to which they and the individuals within them stand to benefit from LETRS.

Student Characteristics. Finally, student characteristics will likely influence the impact and use of LETRS. Though research on the potential moderators of professional development's impact on student reading is still emerging (Didion et al., 2020), certain characteristics likely have implications for evaluation efforts (e.g., Baird & Pane, 2019). It is expected that student characteristics such as baseline reading level, disability status, grade level, and language status may influence both the likelihood and magnitude of positive effects on student reading because they predict student growth in reading even in the absence of LETRS.

Conclusion

The primary purpose of the LETRS Logic Model is to guide LETRS planning and implementation efforts by identifying short-, medium-, and long-term goals related to program implementation. The LETRS Theory of Change describes the rationale behind the model, and how factors outside of LETRS are expected to affect the program's implementation, output, and outcomes. These resources can usefully guide program evaluation efforts and qualitative research. For experimental research, it is recommended evaluators use both the LETRS Program Logic Model and Theory of Change to create an evaluation logic model that contrasts the use of LETRS with a counterfactual condition in which LETRS, or a component of LETRS, is not used. These practices will promote the validity of the research findings.

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