



NARRATIVE PROFILE

System 44® Next Generation is a proven foundational reading program designed to place the most challenged readers on the path to college and career. An explicit, personalized learning progression engages students in reading, writing, and language, as well as in speaking and listening. *System 44* is available in two stages of instruction—Upper Elementary and Secondary—to provide the most age- and developmentally-appropriate materials to engage students inside the classroom or in remote learning environments.

EVIDENCE BASE/EFFICACY

Endorsed by the Council of Administrators of Special Education (CASE) as an effective reading intervention program, *System 44* has a myriad of studies proving it effective for students with foundational reading deficiencies. The Compendium of Research is a comprehensive collection of evidence-based results of *System 44* for struggling readers across the country, including special education students and English learners. Research studies for *System 44* meet the **strong evidence level** as defined by the Every Student Succeeds Act (ESSA). To download the research, visit: www.hmhco.com/research/library.

MOTIVATION & ENGAGEMENT

System 44 includes personalized learning technology designed to increase students' intrinsic motivation as well as improve their ability to read. The Student Dashboard allows students to track their overall progress while motivating and supporting them to build executive function skills. Before starting their instruction, students are reminded of their current progress in the software. From the Dashboard, students can explore items of interest, including their total number of words mastered and unlocked Success videos. The Dashboard's on-screen graphics encourage students to celebrate their successes and keep working toward their goals. Digital stickers enable students to track their progress on their My Software Tracking Logs.

System 44 also leverages the power of technology to motivate students, inside the classroom or remotely, and provide structured engagement opportunities. Students who are not drawn to print media but voluntarily spend hours on the computer can use a tool they value to master skills they need. The Student Digital Portfolio, accessible via SAM™ Central, includes a goal-setting tool to help teachers and students evaluate progress toward yearly academic and behavioral goals. Tracking academic goals increases students' intrinsic motivation, classroom engagement, and desire to continue to succeed.

SOCIAL EMOTIONAL LEARNING (SEL)

System 44 is fully aligned with SEL core competencies of self-awareness, self-management, relationship skills, social awareness, and responsible decision-making. A *System 44* classroom is built on collaboration, communication, and trust that pave the way for increased student engagement and positive mindsets. Fostering growth mindset inspires students to take ownership of their learning. When students enter a *System 44* classroom, they begin to see themselves as readers and fully join and participate in the community of learners. Instructional routines help teachers actively engage students and set clear behavioral expectations for the classroom, thereby empowering students to identify emotions and behaviors and build a positive classroom culture. If you would like to learn more about the science of social emotional learning at HMH, please visit: www.hmhco.com/research/social-and-emotional-learning-research-foundations.

GRADES

3–12

INSTRUCTIONAL CATEGORY

Supplemental

INSTRUCTIONAL FOCUS

Reading Intervention

EVIDENCE LEVEL*

Strong

RTI TIERS

Tier III

* HMH's evidence ratings are based on the U.S. Department of Education's non-regulatory guidance for ESSA. Evidence ratings issued by clearinghouses and independent research agencies (e.g. Evidence for ESSA) may differ due to varying criteria used to judge evidence.

System 44 Narrative Profile

INSTRUCTIONAL FOCUS

System 44 is designed to support older struggling readers by helping them master the foundations of reading so they can tackle more complex skills for college and career readiness. The student software delivers a personalized learning path through systematic instruction in phonics, decoding, reading, and writing skills. In remote learning environments, *System 44* allows for digital implementation permitting students access to the adaptive software, digital independent reading library anytime, anywhere.

READING

System 44 delivers research-based instruction in the forty-four speech phonemes of English, providing the foundational literacy skills that are essential to the academic success of all struggling readers. The instructional sequence for phonemic awareness lessons presents the most stable, frequent, and highest-utility sounds first so students can quickly begin to experience success connecting sounds to letters and decoding words.

System 44 also delivers explicit scaffolded instruction in the phonological structures of English. The adaptive software activities and teacher-led lessons provide intensive training in letter-sound relationships, segmenting, and blending. Instruction and modeling help students build aural discrimination between sounds and match those sounds to their spellings. As students work independently on the computer, the software moves students from foundational instruction in phonics and decoding, to reading 100 percent nonfiction Success passages, which are connected texts designed to be a stretch for them. Audio and visual effects, such as images, animation, context sentences, and Spanish translations assist students as they blend and read new words.

Early in the instructional sequence, *System 44* begins teaching strategies for decoding multisyllabic words as students master the building blocks of the English language. The software's Word Strategies lessons build word attack skills through instruction with word analysis strategies, beginning with English syllable patterns and syllabication. High-frequency morphemes are introduced together with morphological word-reading strategies. The lessons offer immediate, corrective feedback as students learn to consciously apply strategies and use morphology to read and understand multisyllabic words. Developing morphological and syllable sense enables students to read essential words across the content areas.

System 44 provides a personalized learning progression that builds an individualized staircase of increasing text complexity. Anchor Videos support students' abilities to build background knowledge and access increasingly challenging texts. *System 44* gives students access to multiple text types, allowing them to develop word knowledge across a range of contexts. The program's *44Book* includes eight modules of nonfiction readings that cover a broad range of genres and text types, including content from Science, Social Studies, and Life Skills. Each *44Book* module includes a fiction and nonfiction Stretch text that is read aloud, exposing students to thought-provoking, grade-level text.

WRITING

Students become proficient with the building blocks of evidence-based writing in *System 44* through daily, short, text-based responses and scaffolded practice in a variety of writing types including argument essays. Scaffolded writing tasks build in complexity as students progress through the modules, working their way toward writing evidence-based paragraphs independently. Scaffolds such as prewriting steps, embedded grammar practice, and sentence frames support developing writers in organizing and writing well-developed ideas. As students progress through the *44Book* lessons, these writing scaffolds decrease.

Each *44Book* module culminates in a performance-based task. Students produce a range of writing types synthesizing what they have read and apply that knowledge to a research question. Students

System 44 Narrative Profile

engage in multiple steps to complete the project, including collaborating with peers to brainstorm ideas, gathering evidence, and practicing and refining writing and presentation skills that are critical for college and career readiness.

Summary writing in the software reinforces the writing skills students practice in the *44Book*. The instructional software's Writing Strand provides students with independent practice in writing summaries around the content of the Success Passages, helping students build comprehension and writing fluency. Writing prompts and scaffolds, such as sentence frames, echo those that students encounter through teacher-mediated practice in the *44Book*, thereby increasing students' competence and confidence in writing.

SPEAKING & LISTENING

System 44 features daily routines for students to engage and collaborate with their teacher and peers in meaningful discussion. Through these daily discussions about text, students develop academic and conversational English, and they practice expressing their own ideas and responding to those of others. Oral language is an integral component of the *44Book* instructional path, which builds structured academic conversation into every lesson. These scaffolded speaking and listening tasks provide students with frames to help structure their responses and ensure they use the target vocabulary and grammatical structure. During these daily conversations, teachers use structured engagement routines to provide a consistent format for discussion and help hold all students accountable for engaging in conversation. Students engage in these academic discussions both one-on-one with the teacher and their peers.

LANGUAGE

System 44 provides a systematic approach to teaching students academic language and vocabulary. In the *44Book*, Strategies for Metacognition, Academic Language, Reading, and Thinking (S.M.A.R.T.) lessons offer targeted instruction and practice in phonics and grammar during small-group instruction, reinforcing key skills and concepts students encounter in the software and Resources for Differentiated Instruction (RDI).

Throughout *System 44*, grammar, usage, and mechanics are taught systematically and in context. Grammatical conventions are taught in the context of writing to help students grasp grammatical concepts more quickly. The React & Write and the Summarize tasks in the *44Book* and the Respond & Write activity in the software are frequent writing tasks that require students to use appropriate syntax, grammar, and vocabulary. *System 44* then provides recursive grammar instruction that hones in on the errors students most commonly make and provides corrective feedback.

INSTRUCTIONAL DESIGN

The *System 44* model for blended learning combines adaptive technology and teacher-led instruction to help students become proficient readers, writers, speakers, and critical thinkers. As a stand-alone program, *System 44* is designed to be implemented daily as a single class period, and can be used in resource rooms, extended day settings, or summer school programs. Students use the software daily and alternate between small-group instruction and modeled and independent reading. In remote learning environments, students will access the adaptive software and digital independent reading library.

ASSESSMENT & PROGRESS MONITORING

The *System 44* assessment system provides ongoing information about student learning and progress throughout the year for students, teachers, and administrators. Assessments include tools to screen and place

System 44 Narrative Profile

students, monitor progress, and provide information that can be used to inform instruction and assess the quality of program implementation.

- The HMH *Reading Inventory*® is used to determine a student's Lexile measure, based on the Lexile® Framework for Reading. This assessment also determines a student's placement in the *System 44* software.
- The HMH *Phonics Inventory*™ is a screening tool that assesses baseline decoding and sight word reading fluency.
- The *System 44* software assesses performance in phonics, decoding, fluency, comprehension, spelling and writing.
- Each *44Book* workshop culminates in a performance-based assessment, which requires students to synthesize all readings, analyze information, evaluate options, and produce a written outcome.
- *System 44* Midyear and End-of-Year Tests evaluate the transfer of newly acquired skills in phonemic awareness, phonics, word recognition, spelling, and morphology.
- *Reading Counts!*™ Quizzes are independent reading assessments that monitor students' comprehension of increasingly complex texts.

DIFFERENTIATED INSTRUCTION

Personalized learning in *System 44* is driven by the FASTT—Fluency and Automaticity through Systematic Teaching with Technology—algorithm, which helps students manage their acquisition of new information and then carefully synthesize this information as long-term memory in the brain. As students work independently on the computer, the *System 44* software automatically and continuously collects student performance data and feeds multiple reports teachers use to inform small-group instruction.

STRATEGIES FOR ENGLISH LEARNERS

System 44 has been proven to effectively raise reading achievement for English learners. The program is particularly suited to address the needs of students who are in Levels One and Two of English language proficiency. *System 44* can also address decoding gaps that Level Three students may have and help more advanced students master standard classroom English. Specific features to support these students include the following:

- **Anchor Videos** introduce each *44Book* workshop, helping students build background knowledge and develop mental models.
- **Explicit instruction and routines** develop academic language proficiency with both domain-specific and high-utility words that students need to participate and succeed across content areas.
- **Targeted oral and academic language goals** are built into each *44Book* lesson with structured, accountable speaking and listening, as well as writing routines.
- **Images are provided for over 2,000 words** in the instructional technology to support word knowledge. Additional support is provided for words that are difficult to image, such as concept words and verbs.
- **For Spanish-speaking students**, at any point during software instruction students can click on any word and receive a translation.

System 44 Narrative Profile

- **Students have daily opportunities for oral reading and academic listening practice** with the instructional technology, including pronunciation modeling, recording, and playback for self-assessment.
- **Age-appropriate, multicultural content** in the *44Book* readings, student library, and instructional technology reflects ethnic, cultural, and linguistic diversity.

STRATEGIES FOR STUDENTS WITH SPECIAL NEEDS

System 44 has a proven track record of raising reading achievement for students with special needs, including those with learning disabilities, through highly engaging instructional and classroom management tools and differentiated instruction to accelerate individual students at their own pace. Endorsed by the Council of Administrators of Special Education (CASE), *System 44* supports readers who have unique learning challenges and those who have been identified as being in need of special education services. Specific features to support these students include the following:

- **Age-appropriate, adaptive software and Small-Group Differentiated Instruction** allow students to move at their own pace and receive individualized, targeted instruction.
- A **multimodal curriculum** with visual, auditory, tactile, and kinesthetic tools encourages student growth through multiple modes of communication.
- *System 44* for iPad includes **new accessibility features**, such as dynamic type, high contrast, and guided access designed to serve students with audiovisual needs.
- **Universal Design features and 508 compliance**, such as closed-captioning for Topic Software and Anchor Videos, enable students with certain physical disabilities to access the instructional content.
- **Point-of-use data and reports** allow teachers and parents to measure student progress toward annual Individualized Education Program (IEP) goals, both academic and behavioral.

SCHOOL-TO-HOME CONNECTION

The *System 44* bilingual Family Portal supports the diversity of family members and caregivers. The Family Portal includes a wide variety of information and resources to support phonics instruction at home for all families, including those of special needs students and English learners. Reports generated by the management system also help teachers communicate students' progress and offer suggestions to support reading at home.

PROFESSIONAL LEARNING OPPORTUNITIES

Together with the experts from Literacy Solutions™ and Math Solutions®, HMH Professional Services helps schools and districts achieve measurable gains with a flexible approach to professional learning centered on student outcomes. To ensure effective program implementation and student growth, consultants collaborate with leadership to co-develop a plan for improvement, goals for teacher and student learning, and metrics to monitor progress. Ongoing professional development helps the district build and maintain a community of learners working together to improve instruction.

HMH Professional Services works with the school or district to personalize professional learning through a blended approach, including online and on-demand courses, coaching, embedded program resources, and other opportunities for teachers to shape their own learning. Teachers benefit from a flexible experience that is ongoing and focused on goals addressing their unique needs.

GETTING STARTED

Foundational Getting Started courses help educators learn how to use their HMH programs in the context of lesson planning and classroom instruction. These interactive sessions allow participants to experience lessons from both the teacher and student perspectives, plus get hands-on practice accessing and integrating the digital resources into their instruction. Each Getting Started course comes with a comprehensive Professional Learning Guide for extra support. Additionally, teachers benefit from on-demand professional resources embedded within the program at point of use.

FOLLOW-UP & INSTRUCTIONAL PRACTICES

Follow-Up sessions build upon the foundational knowledge of Getting Started to help teachers take full advantage of their HMH program's components, assessments, differentiation, and digital tools in meeting the needs of their students. Topics are classroom-focused, hands-on, and offer opportunities to apply understanding. Follow-Up sessions are modular and flexible, with topics and lengths designed to meet the needs of different groups of teachers within the same district and even within the same school.

Beyond program implementation, practice-based courses bring best practices and innovative approaches to equip educators with the most effective, research-based instructional strategies. Topics range from mastering foundations and addressing content standards to honing best practices and planning effective remote instruction. Beginning with an instructional needs assessment and strategic plan, HMH teams work to personalize the professional learning experience to raise student achievement and transform school-wide performance.

COACHING & COLLABORATION

Job-embedded instructional coaching provides a sustainable, data-driven, and personalized approach to helping each teacher meet their individual learning goals. HMH's research-based coaching model is student-focused and proven to help teachers improve their practice and raise student achievement. Coaching can include:

- Model lessons to illustrate instructional techniques
- Support for implementing effective teaching practices
- Differentiation strategies to meet the needs of all students
- Focus on developing and deepening content knowledge
- Analysis of student work samples to assess learning and determine instructional next steps
- Facilitation of professional learning communities, cadres, and collaborative planning

To make coaching even more accessible, the HMH Coaching Studio provides a platform for teachers and coaches to stay connected, share resources, upload and reflect on classroom videos, and make continuing progress on learning goals. Through the HMH Coaching Studio, teachers have access to goal tracking, model lessons, collaboration spaces, video-powered coaching, and more. Teacher's Corner, an online hub of professional learning and teaching support resources, provides opportunities for collaboration where educators can also participate in learning events, webinars, social media, and more to share ideas and learn together.

To learn more about how effective practices, frameworks, and expert opinion from research literature has been translated into the program and practices of HMH Professional Services, please visit:

www.hmhco.com/research/professional-services-research-foundations.

System 44 Narrative Profile

PROGRAM COMPONENTS

System 44 has two stages—Upper Elementary and Secondary. Each includes the following components:

Student Materials

System 44 Student Application
HMH *Reading Inventory*
HMH *Phonics Inventory*
44Book
Decodable Digest
Paperbacks (56 titles, 5 copies each)
Audiobooks (56 titles)
eBooks (56 titles)

Teacher Resources

44Book Teacher's Edition
HMH Teacher Central
Teacher Dashboard
Anchor Videos
Classroom Posters
Word-Building Kit
Teaching Resources for Modeled & Independent Reading
Resources for Differentiated Instruction (RDI)
Screening, Assessment, & Reporting Guide
Sound and Articulation DVD

After a complete level has been purchased, add-on components and additional licenses can be purchased to expand the program. With access to an Interchangeable Literacy License, teachers have the flexibility to enroll students in *System 44* or *READ 180* Universal to meet all students' unique needs.

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