

Ignite by Hatch™: Foundational Literacy for Early Education

Angela Wiseman, Ph.D.

Associate Professor, North Carolina State University

Kylie Rymanowicz, MR, CFLE

Senior Manager of Curriculum, Hatch Early Learning

Introduction

Ignite by Hatch™, a comprehensive, research-based learning platform, fosters early literacy development and supports key areas such as alphabet knowledge, phonics instruction, reading comprehension, and language conventions. By aligning with the latest research and best practices for early learning, including insights from the science of reading, Ignite ensures that young learners receive the foundational skills necessary for reading and writing proficiency.



The science of reading underscores the importance of evidence-based practices in literacy instruction, focusing on how children learn to read, the cognitive processes involved, and the most effective instructional methods. Ignite integrates these principles to create an approach that combines phonological awareness, phonics, fluency, vocabulary, and comprehension. Through interactive and engaging activities, Ignite promotes a holistic approach to literacy education, addressing the diverse needs of students and empowering educators with data-driven insights.

This document outlines how the innovative Ignite platform effectively supports each component of emergent literacy, demonstrating its alignment with educational research and its impact on developing confident, capable readers.

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Conventions of Language and Emergent Literacy

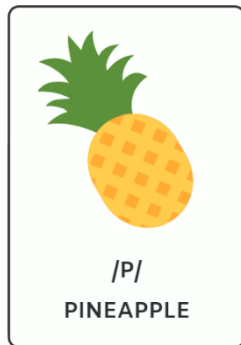
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Alphabet Knowledge and Emergent Literacy

Alphabet knowledge is a critical component in early literacy development, encompassing an understanding of how sounds are represented by letters and the ability to recognize syllable units, subsyllables, and how these elements come together to form words (Gehsmann & Mesmer, 2023). This knowledge serves as a foundational skill for children as they begin their journey toward reading and writing proficiency.



Importance of Alphabet Knowledge in Early Literacy

The significance of alphabet knowledge lies in its role as a predictor of future reading and spelling abilities. Piasta et al. (2022) found that children who demonstrate a strong grasp of the alphabet early in their educational journey tend to have better reading and spelling outcomes. The link between alphabet knowledge and literacy success underscores the importance of effective instruction in this area during the formative years of a child's education.

Patterns of Alphabet Learning

Children typically learn the alphabet in a sequence that often starts with letters in their own names, followed by those whose names include their corresponding sounds, like the letters "b," "f," and "s" (Piasta et al., 2022). This pattern reflects a combination of familiarity and phonemic correlation. In contrast, letters whose names do not align with their corresponding sounds, such as "h," "w," and "y," tend to be learned later.

Mesmer (2021) suggests that the order of letter learning progresses as follows:

- Uppercase letter name (letters with salient forms, such as the letters in a child's own name)
- Lowercase letter name (this includes letters with similar uppercase "parents," such as "Cc" and "Ss," and letters with dissimilar uppercase "parents," such as "Aa" or "Gg")
- Easiest letter sounds (letters with names that have the target sound at the beginning, such as "Bb," "Dd," "Tt," or "Zz")
- Easy letter sounds (letters with the target sound at the end of the letter name, such as "Ll," "Nn," "Ss," or "Ff")
- Hardest letter sounds (sounds with no information in the name, such as "h," "y," or "x")

Components of Alphabet Knowledge

Letter knowledge involves multiple aspects, including the ability to identify letter shapes and forms, their names, and the connections between the visual representation of a letter, its name, and the sound it represents. Effective alphabet instruction should be systematic and explicit, incorporating letters both in isolation and within the context of reading and writing activities (Mesmer, 2021). Teaching methods should avoid rigid "letter of the week" approaches, instead encouraging a cyclical approach with short lessons and multisensory experiences to reinforce learning.

The Alphabetic Principle and Beyond

A solid understanding of the alphabetic principle—the ability to name letters and associate them with their corresponding sounds—is essential for reading fluency. However, Mesmer (2021) cautions that a focus solely on letter knowledge should not replace contextual reading activities. Early literacy education should encompass both decoding (phonics) and visual word recognition (sight word reading). Decoding involves phonics-based strategies where words are broken down into individual sounds, while visual word recognition relies on specific internal representations stored in the brain.

Effective Practices for Teaching the Alphabet

Research suggests that effective teaching methods should balance phonological awareness and the alphabetic principle. Short, focused lessons that include multisensory activities are important for reinforcing learning (Mesmer, 2021). This approach helps children internalize the connection between letters and sounds in a way that promotes retention and fluency.

It is crucial to avoid a solely whole-word approach without connections to processing sounds and letters. This method lacks scientific support and may hinder the development of foundational skills necessary for reading success. Teaching the alphabet and phonological awareness together forms a balanced approach, providing children with a comprehensive understanding of the building blocks of literacy.

Conclusion

Alphabet knowledge serves as a vital building block of literacy development. Through systematic, explicit instruction that incorporates multisensory activities and a balanced approach to phonics and visual word recognition, educators can lay a strong foundation for future reading and spelling success. The literature highlights the need for early, effective instruction in alphabet knowledge to set the stage for lifelong literacy.

How Ignite Supports Alphabet Knowledge

Ignite supports the development of alphabet knowledge through a variety of interactive learning activities. At the heart of Ignite's offerings are short, focused lessons and playful games that aim to build alphabet knowledge and strengthen letter-sound associations. But Ignite doesn't stop at basic letter recognition. The platform goes further, incorporating phonological awareness experiences that help children understand the intricate relationship between phonemes and graphemes. Through a variety of activities, children learn to recognize sounds, match them to letters, and understand how these components work together to create words. It's a comprehensive approach that aligns with research-based best practices, ensuring that learners are not just memorizing the alphabet but truly understanding its role in literacy. Additionally, the Ignite learning platform offers a multisensory approach that scaffolds learning.

This thoughtful design makes Ignite a rich platform for developing foundational literacy skills. The interactive nature of the activities encourages children to actively engage with the content, fostering a deeper understanding of the alphabet and its connections to reading and writing. By offering a diverse range of experiences that support both phonological awareness and letter-sound associations, Ignite provides a solid foundation for young learners to grow into confident readers.



In this Ignite alphabet knowledge game, children are asked to touch the jellyfish that contains the target sound.

Phonics Instruction and Emergent Literacy

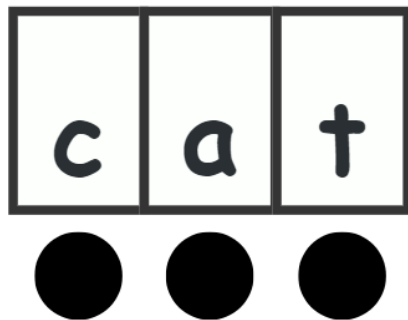
Introduction to Phonics Instruction

Phonics instruction is a fundamental component of emergent literacy, focusing on teaching phoneme-grapheme relationships—the connections between sounds (phonemes) and their corresponding written symbols (graphemes; Buckingham, 2020). This relationship is crucial for early readers as they begin to decode words and develop reading fluency.

Types of Phonics Instruction

Phonics instruction involves a structured approach to teaching phoneme-grapheme relationships that progresses in a logical sequence. Within systematic phonics, two key approaches are prevalent:

- **Synthetic phonics:** This approach begins with phonemes and teaches children to connect these sounds to their corresponding letters. It emphasizes blending, where children learn to combine individual sounds to form words (Buckingham, 2020).
- **Analytic phonics:** In this method, instruction focuses on onsets and rimes. Rather than isolating individual sounds, children learn about word families, recognizing patterns within words (e.g., *rat*, *cat*, *that*; Buckingham, 2020).



Key Strategies in Phonics Instruction

Blending is a primary strategy used in phonics instruction. It involves taking two or more letters and their sounds, then teaching children how these sounds combine to form words (International Literacy Association, 2019). Other effective strategies include word building and word sorting, which help children understand phonics concepts by manipulating and categorizing words based on common patterns (International Literacy Association, 2019).

The Importance of a Balanced Approach

While phonics instruction is an essential component of early literacy, research emphasizes that it should be part of a broader, balanced reading program. Snowling et al. (2022) found that phonics instruction alone does not guarantee a strong reading program. To be effective, it must be integrated with other aspects of language instruction, such as vocabulary development, reading comprehension, and fluency.

Moreover, not all children require systematic phonics instruction. Individual learning needs vary, and some children may acquire phoneme-grapheme relationships

through other means. Phonics instruction should be tailored to meet the diverse needs of learners (Snowling et al., 2022).

Benefits of Explicit Phonics Instruction

Explicit phonics instruction is beneficial, especially for emergent readers. Moats (2020) notes that children who are taught phoneme-grapheme relationships explicitly are better able to recognize whole words. This understanding enhances their reading proficiency. Explicit phonics instruction is useful until children become proficient readers, after which they can rely more on word recognition and other reading strategies.

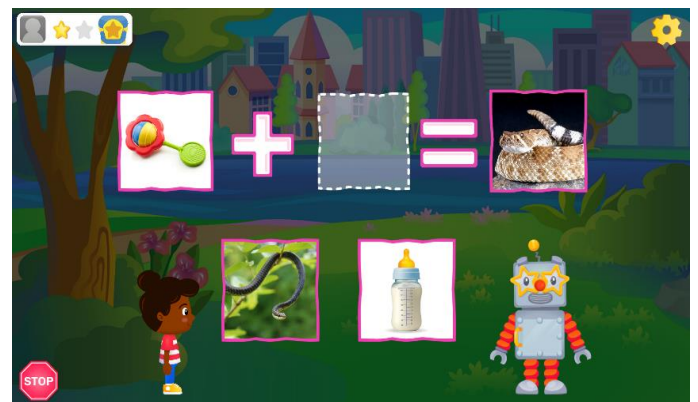
Conclusion

Phonics instruction plays a crucial role in emergent literacy by teaching the foundational skills needed for reading and writing. Systematic phonics instruction, whether synthetic or analytic, provides a structured approach to learning phoneme-grapheme relationships. However, a balanced approach that incorporates phonics with other language instruction is essential for developing well-rounded readers. By utilizing strategies like blending, word building, and word sorting, educators can create effective phonics instruction programs that support children's journeys toward reading proficiency.

How Ignite Supports Phonics Instruction

Ignite offers a multitude of opportunities for young learners to engage in phonics practice. At the core of Ignite's approach lies synthetic phonics, a method where children learn to connect individual sounds, or phonemes, with their corresponding written letters, or graphemes. Ignite makes this learning process interactive and enjoyable. The platform offers a dedicated subdomain filled with blending games, inviting children to explore compound words and gradually build their phonics skills. These games start simple, focusing on combining basic compound words, then progress to more complex tasks, like blending phonemes with consonant digraphs and blends.

Ignite's focus on phoneme-grapheme relationships provide a solid foundation for reading. Through explicit practice with letters and sounds, blending and segmenting games, and phoneme isolation exercises, children develop the essential skills needed for reading fluency. The platform's thoughtful design encourages learners to explore and



understand the connections between sounds and letters, a critical step in becoming proficient readers.

Recognizing the importance of a comprehensive literacy approach, Ignite offers games that expand beyond phonics instruction. These additional games are designed to build vocabulary, boost reading comprehension, and promote reading fluency. By incorporating a variety of activities that address different aspects of literacy, Ignite ensures that children receive a well-rounded educational experience.

Additionally, Ignite gives teachers access to data that demonstrates how students are progressing in their phonics knowledge. They can use that information to build effective instruction. This is particularly important because students' knowledge of phonics can vary. Ignite offers the connection between assessment and instruction so that teachers can support students' individual needs within the platform.

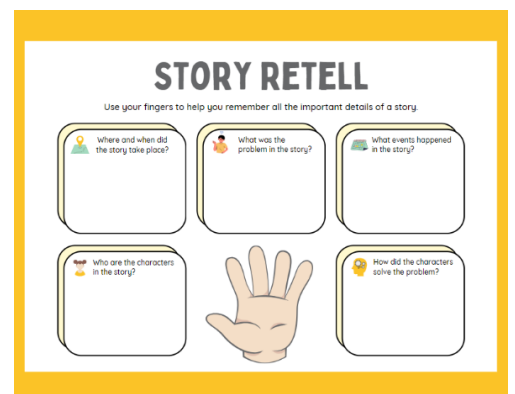
Ignite creates an environment in which learning is both fun and effective. It's a place where children can build foundational literacy skills and embark on a journey that supports their growth as confident, capable readers.

Reading Comprehension and Emergent Literacy

Reading comprehension is the process of both “extracting and constructing meaning through interaction and engagement with written language” (RAND Reading Study Group, 2002, p. 11). Comprehension consists of lower-level and higher-level skills. Lower-level comprehension skills, such as grammar and vocabulary, serve as the foundational elements of language, which are essential for basic comprehension (Fisher et al., 2022). For instance, understanding grammar aids in accurate sentence decoding, while vocabulary knowledge is critical for grasping text meanings. Conversely, higher-level comprehension skills are requisites for deeper engagement with text and incorporate more complex thinking and understanding; some examples of higher-level comprehension skills include inferencing meanings, comprehension monitoring, and understanding text structure.

Metacognition and Highly Effective Readers

Effective readers employ metacognitive strategies and know how to apply such strategies as they read (Fisher et al., 2022). Some examples of metacognitive strategies include activating prior knowledge, inferring, monitoring comprehension, questioning, searching and selecting, summarizing, and visualizing and organizing. These strategies significantly contribute to enhanced comprehension and retention of information from texts.



Word Knowledge Supports Comprehension

Word recognition and decoding skills form the bedrock of reading comprehension (Gentry & Ouellette, 2019). Successful word recognition allows readers to concentrate on understanding text meanings. Skills like sounding out, blending, phonological awareness, and orthographic knowledge play pivotal roles in word identification and decoding. Achieving fluency through efficient word reading directly impacts comprehension.

Phonological Awareness and Phonics

Phonological awareness is a key aspect of reading because it involves identifying sounds (phonemes) in words, and the process of identifying sounds helps children decode. Children’s phonological awareness evolves through various stages, progressing from basic skills, like rhyming, to more advanced abilities, like phoneme manipulation.

While phonological awareness involves identifying sounds, phonics instruction focuses on how letters reflect the sounds of spoken language. It is important that phonics instruction be explicit and systematic. There are two approaches to teaching phonics: synthetic (teaching individual letter sounds and how those sounds combine) and analytic (teaching how combinations of letters make sounds, focusing on rimes and word analogies). Both synthetic and analytic phonics approaches are integral to literacy education, emphasizing letter-sound relationships for effective word identification.

High-Frequency Words

Teaching high-frequency words can be a helpful component of reading instruction for emergent readers. Ideally, teaching high-frequency words should occur after children have acquired letter-sound knowledge. High-frequency words should be taught explicitly with word patterns and in context, such as through reading books.

Conclusion

Reading comprehension and emergent literacy are foundational to early education, involving a blend of lower-level and higher-level skills essential for proficient reading. Lower-level skills, like grammar and vocabulary, enable basic comprehension, while higher-level skills, such as inferencing and comprehension monitoring, facilitate deeper text engagement. Effective readers use metacognitive strategies to enhance comprehension and retention. Word recognition and decoding, supported by phonological awareness and systematic phonics instruction, are crucial for reading success. Teaching high-frequency words in context further aids fluency. A comprehensive approach that integrates these elements fosters the development of confident and proficient readers.

How Ignite Supports Reading Comprehension

To support reading comprehension, Ignite offers diverse resources to enhance language skills by building background knowledge, expanding vocabulary, and supporting oral language development. Games designed to facilitate grammar development aid children in understanding concepts like sentence structure and verb tenses, while vocabulary games cover a spectrum of skills, from basic word meanings to academic vocabulary, fostering language comprehension.

Moreover, ample opportunities are provided for practicing comprehension skills, including inferencing, comprehension monitoring, and understanding text structure. Book experiences incorporate comprehension questions, predictions, and inferences, fostering critical thinking and text engagement. Additionally, Ignite features phonological awareness games that assist children in identifying and manipulating sounds in words. Letter-sound correspondence games and blending activities support phonics instruction, bolstering word recognition and decoding skills.

High-frequency word identification games are also included in Ignite, reinforcing letter-sound knowledge and facilitating efficient word recognition, thus contributing to the development of fluency in reading common words.

Furthermore, Ignite adopts a multisensory approach to learning by integrating auditory, visual, and kinesthetic elements. This fosters stronger connections and a deeper understanding of language and literacy concepts.



In this game, children are asked to identify and tap age-appropriate high-frequency words.

In summary, Ignite is a comprehensive platform that supports various facets of reading comprehension and emergent literacy through interactive games and activities. By addressing both lower-level and higher-level comprehension skills and integrating multisensory learning experiences, Ignite facilitates the development of proficient readers and cultivates a lifelong love of reading.

Conventions of Language and Emergent Literacy

Language conventions refer to the rules of written and oral language. Children are developing their understanding of language conventions and will make errors as they build their knowledge that language follows certain rules and that those rules are important for learning how to communicate. There are many ways to learn language conventions. For young children, exposure to language conventions through games and play is developmentally appropriate.



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For instance, a young child might first create written products that do not look like letters or words; they may hand their teacher a piece of paper that has scribbles on it and say, "This is a letter to mom." Creating a written product like this is the first step towards understanding language conventions.

Conventions are important for children to learn because they help them communicate with others and support their reading and writing development. Children progress through developmental stages to build language conventions, and many conventions may not develop until they are between 7 and 9 years old. While it is important not to overemphasize language conventions with young children, there are many ways to show children how language is written or spoken to support their literacy knowledge. It is important to incorporate activities that include modeling, guided practice, and feedback (Jump & Wolfe, 2022).

There are many ways to consider conventions of language. First, children acquire letter knowledge, realizing that each letter has a specific shape and that letters form words. Alphabet knowledge is an important indication of spelling and reading abilities (Piasta et al., 2022). As children learn more about writing, they learn how conventions include words, letters, capitals, space, and punctuation. Language conventions can also refer to how children decode and read words. When teaching children how to decode and read words, it's important to ensure that they also learn the parts of words, such as prefixes and suffixes, and understand the context of what they are reading so that they can make meaning. As children progress with their reading and writing abilities, understanding aspects like plural nouns, question words, prepositions, irregular plural nouns, and irregular verbs is important.

Teaching Conventions of Language

There are several methods of instruction that support children in developing a solid grasp of the contentions of language:

- **Direct instruction:** Children learn letters, sounds (phonemes), phonics, and words through direct instruction. It is most effective if children are taught language conventions, such as the alphabetic principle, systematically (Mesmer, 2021).
- **Repetition:** Young children learn about grammar and other conventions through repetition. For instance, if children learn a letter-sound relationship and hear it multiple times, they start to recognize the sound that is associated with the letter.
- **Visuals:** Incorporating images, alongside text, into stories and games is important for children to learn the conventions of language. When children see an image that might relate to a story and then also see the corresponding text, this can increase their comprehension, aid in their understanding of sequencing and structure, and bridge language gaps for English language learners.
- **Multisensory:** When given the opportunity to move, sing, visualize, speak, or draw, children are provided with important practice and experiences to learn language conventions (Concannon-Gibney, 2021).
- **Opportunities for practice:** Children may create written products, tell stories, and play in ways that support the development of conventional language. They can practice reading and writing to see models of conventional language that support their understanding. Games, such as the ones in Ignite, provide many opportunities for exposure and practice, which help children learn about the rules of language.
- **Exposure to letters, words, and stories:** Children can learn conventions of language through their exposure to letters, words, and stories. A good way to learn language conventions is through engaging activities, such as games and poetry. Repetition of this exposure through rhymes, poems, and stories that children hear multiple times provides important experiences for children as they are learning words, grammar, and sentence structure.

Conclusion

Language conventions are crucial for effective communication and literacy development. As children learn these rules, they will make errors, but this is part of their growth. Engaging methods, like games, direct instruction, repetition, visuals, and multisensory activities, are vital for teaching language conventions. Through consistent practice and exposure to letters, words, and stories, children gradually master

language rules. Creating a rich linguistic environment with constructive feedback helps children develop strong literacy and communication skills.

How Ignite Supports Conventions of Language

Ignite is a comprehensive platform designed to reinforce language conventions through a variety of interactive games and activities. Ignite's approach aligns with effective strategies, such as systematic instruction, providing visual and text cues and multisensory learning.

Ignite games offer structured lessons that introduce children to letters, sounds (phonemes), and phonics systematically. These lessons are interactive, using animations and sound effects to demonstrate the alphabetic principle clearly.

Games incorporate visuals alongside text, which can significantly enhance understanding. Ignite uses vivid illustrations; animations, such as highlighting text while a voice reads aloud; and

corresponding images to reinforce the meaning of the words. Additionally, exposure to a rich variety of letters, words, and stories is crucial for language development. Ignite games offer many books and rhymes

that children can read along with. Ignite is a multisensory

experience for children, and games include visual, auditory, and kinesthetic elements, which makes learning more engaging and meaningful.



In this game, children are shown a text alongside a visual cue.

Regular practice is essential for mastering language conventions and Ignite provides numerous opportunities for children to practice through interactive and playful activities across learning domains. Ignite also incorporates feedback mechanisms, where children receive immediate, positive reinforcement for correct answers and gentle guidance for mistakes.

Ignite games also offer a contextualized approach to learning, with words presented within broader narratives or scenarios. This setup allows children to gain deeper insights into the meaning and usage of words. By aligning with the context clues

outlined by Fisher and Frey (2023), Ignite offers students a range of cues that help them unlock and understand new vocabulary.

Moreover, Ignite provides background information when required, assisting students in grasping more complex language concepts. The platform's focus on contextual learning, combined with its use of visual aids and interactive activities, promotes a deeper comprehension of language conventions. This approach guides learners as they expand their vocabulary and language skills in a way that feels natural and intuitive.

Conclusion

Ignite is a robust, research-based platform designed to support the multifaceted components of early literacy development. By offering systematic instruction in alphabet knowledge, diverse approaches to phonics, comprehensive reading comprehension activities, and the reinforcement of language conventions, Ignite ensures that young learners build a strong foundation for reading and writing proficiency. The platform's interactive and engaging design encourages active learning, while multisensory activities help to reinforce connections between letters, sounds, and words.

Moreover, Ignite empowers educators with data-driven insights, enabling them to tailor instruction to meet the unique needs of each student. This personalized approach ensures that all learners, regardless of their starting point, can progress toward literacy mastery. By integrating the principles of the science of reading, Ignite creates a balanced approach that addresses the diverse needs of students. The platform's interactive nature, combined with data-driven insights for educators, supports personalized learning and effective instruction.

Ignite not only builds foundational literacy skills but also cultivates a love for reading, setting the stage for lifelong literacy and academic success. Ignite's commitment to fostering early literacy development makes it an invaluable tool for educators. With its engaging, research-backed methods, Ignite lays the groundwork for lifelong literacy success, helping young learners become confident, capable readers and writers.

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