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MagneticReading
Putting the
Science of Reading to Work

## Contents

Introduction .....  5
Scope and Sequence ..... - . 6
Word Recognition .....  $\underline{7}$
Phonological Awarenes .....  7
Phonics .....  8
High-Frequency Words .....  10
Language Comprehension .....  11
Literacy Knowledge: Concepts of Print .....  11
Begin to Build Background Knowledge .....  12
Fluency ..... 15
Conclusion ..... 18
References ..... 19

## Introduction

At Curriculum Associates, we believe all students can become skilled readers, and the best way to get them there is a strong start with explicit, systematic, and evidence-based literacy instruction. Magnetic Reading Foundations thoughtfully merges the Science of Reading and the science of instruction. These beliefs are at the core of Magnetic Reading Foundations, our comprehensive foundational skills program for students in Grades K-2.

## Reading Is a Complex Process

Thousands of international, interdisciplinary, scientific, and educational studies have pinpointed whatand, crucially, how-we must teach students who are learning to read. The resulting evidence forms the foundation of reading science. Humans are not hardwired to read in the same way we are to speak. We must all be explicitly taught to decipher the complex alphabetic code. In Magnetic Reading Foundations, students learn to read beginning with these word recognition skills:

Phonological Awareness: the ability to recognize and manipulate the sounds of spoken language
Phonics: the ability to map sounds onto letters or combinations of letters (i.e., sound spellings)
Recognition of High-Frequency Words: the ability to automatically identify and read words that occur most often in text
In addition to learning to read, Magnetic Reading Foundations supports students as they begin to build a foundation for reading to learn with instruction in two of the language comprehension skills:

- Literacy Knowledge (Concepts of Print): knowledge specific to understanding how print works, such as reading from left to right and top to bottom in English
Background Knowledge: information stored in the brain based on prior experiences of topic and ideas

Word recognition and language comprehension skills weave together becoming increasingly strategic and automatic as students become skilled readers (Scarborough, 2001). There are instructional opportunities in each week of Magnetic Reading Foundations for systematic, evidence-based, explicit fluency instruction to support students as they move toward skilled reading:

Fluency: the ability to read with accuracy, automaticity, intonation/inflection, and proper phrasing
The following pages explain and illustrate how the intentional design of Magnetic Reading Foundations is aligned to the areas of reading research listed above that are appropriate to the age and development of our Grades K-2 readers.

## Scope and Sequence

Magnetic Reading Foundations' scope and sequence is organized to systematically build and reinforce foundational skills. Our scope and sequence is informed by and aligned to research collected from cutting-edge reading science, including that from Heidi Anne Mesmer and Linnea Ehri.


Contact your Curriculum Associates Educational Sales Consultant to access the full Magnetic
Sales Consultant to access the full Magnetic
Reading Foundations scope and sequence.

## Word Recognition

## Phonological Awareness

Research shows that phonological awareness is one of the first and most essential reading skills that students must learn as it is the greatest predictor of future reading success (National Reading Panel, 2000; Wagner \& Torgesen, 1987). The phonological awareness scope and sequence in Magnetic Reading Foundations follows a progression from large units of sound, such as syllables and onset-rime, and moves to individual phonemes. Research has confirmed that the phoneme level is the most important skill for later reading success because it trains students to hear the word parts that correspond to sound spellings (Brady, 2020; Wagner \& Torgesen, 1987; Petscher et al., 2020). In Magnetic Reading Foundations, students hear the week's phonics sounds in the phonological awareness, or Listen Up!, part of the session first. This sequence helps students learn to sound out words (Muter et al., 1997; Yopp \& Yopp, 2000).


## Phonics

## Decoding

The Magnetic Reading Foundations phonics scope and sequence begins with letter recognition, during which students are steeped in letter learning and heavily scaffolded into decoding words with the simplest sound spellings, such as short vowels, progresses through consonant digraphs, and advances into more complex sound spellings, like blends and vowel teams (Guthrie \& Seifert, 1977; Pirani-McGurl, 2009).


## Encoding

Students learn spelling patterns that help them recognize larger, distinct representations of spoken sounds. This helps students develop their word attack skills for decoding multisyllabic words and use knowledge of spelling patterns to accurately encode, or write, the combination of letters to represent the sounds they hear in spoken words (Ehri, 2020; National Reading Panel, 2000; Petscher et al., 2020).

Students practice word building to warm up for spelling. Teachers explicitly model words, and students practice building them using the Word Building Cards, Teachers guide students to change a letter to spell a new word.

| SESSION 4 PRACTICE \& EXTEND | Long e: eo |
| :---: | :---: |
| Listen Up! |  |
| PHONOLOGICAL AWARENESS <br> Substitute Phonemes |  |
| TIP Have children who struggle with substitutingsounds say each sound in the new word beforecombining all the sounds to say the word. |  |
| CHANGE SOUNDS ROUTINE |  |
|  |  |
| Listen: Lam soing tocheonge the suund in word to |  |
|  |  |
| (APPLY) Have children change $/ \mathrm{p} /$ in peep to $/ \mathrm{k} /$ to form keep |  |
|  |  |
| Say the New Word: What new word do you get when |  |
|  |  |
| Now use the routine ond have chiliren substitulephonemes in the wors below. Corect ofl erors. |  |
| /Sh in inheeft offl = feet |  |
|  |  |
|  |  |
| $1 / \mathrm{d}$ in deal to fort = real |  |
|  |  |
|  |  |
| CHECK Are children able to substitute phonemes in |  |
|  |  |
|  |  |
|  |  |
|  |  |

$94 \quad$ unir


Lessons include direct instruction and practice with encoding using the Spell It Routine. This gives students the opportunity to practice new sound spellings and review the previous week's sound spellings.

## High-Frequency Words

The ability to recognize high-frequency words is essential for fluent reading (Blevins, 2017). Magnetic Reading Foundations provides systematic and explicit high-frequency words instruction using a partial decoding approach, which involves reviewing known sound spellings when learning high-frequency words. We also group together high-frequency words by pattern, when possible, which facilitates orthographic mapping and helps students make analogies to other unknown words (Ehri et al., 2009). This approach helps students retain the words better than if they learned with memorization alone (Miles \& Ehri, 2019).


Super Words are grouped together by phonics pattern and often include the week's phonics skills. In this Grade 1 session, the sh- th-, ch-, wh) and the high frequency words there -) wh mat words there and what map to those patterns.
what
Do you know what time it is? What will the weather be like? I know what we can do today

There is one Super Word Card for each Super Word taught in the program to help students say, spell, and write each word. The cards include the word and context sentences to support meaning and usage.


The Super Words Routine provides a structure for introducing Super Words (i.e., high-frequency words). Students hear through writing and multimodal activities.


Alphabet Tales, our program-specific Big Book, is used in Grade K to introduce each letter and teach concepts of print in a whole class format.


Write the missing Super Words.
5. - is in the pan?
6. I will $\longrightarrow \longrightarrow$ eggs for us.

Wexime Wek 6 Sossion 1

Students practice saying, spelling, and writing the Super Words as well as reading them in sentences and connected texts. This provides multiple opportunities to build fluency with the Super Words in various contexts.

## Language Comprehension

## Literacy Knowledge: Concepts of Print

Researchers agree that the understanding of concepts of print is important for reading acquisition (August \& Shanahan, 2006). Magnetic Reading Foundations provides explicit instruction in concepts of print, such as book handling, text features, directionality, punctuation, and how to track text with fingers. Later, as students become more secure in the alphabetic principle, they learn concept of word, which prepares them for decoding (Ehri \& Sweet, 1991).

Begin to Build Background Knowledge

## Content-Rich Reading Experiences

Reading proficiency is connected to students' prior knowledge, and a content-rich curriculum can improve student learning. Magnetic Reading Foundations helps students begin to build background knowledge through cohesive text sets that are rich, compelling, and accessible. As students begin to build background knowledge, they add to their stored background knowledge they can use anytime they encounter new texts. In each Magnetic Reading Foundations unit, students read conceptually connected literary and informational texts that begin to build knowledge in key content areas within and across grade levels.



Plant Life


Fascinating Sea Animals

GRADE 1, UNIT 3
The Underwater World


Exploration


Ocean Animals


From Shallow to Deep

Each unit is organized around a topic, and each week students explore that topic through a wonderfully rich variety of activities and texts.


## Unit Words and Story Words

Magnetic Reading Foundations includes conceptually linked Unit Words that appear throughout the texts in each unit. Students have multiple exposures to the Unit Words across the lessons' texts.


## Fluency

In Magnetic Reading Foundations, students practice isolated word reading fluency as well as fluency in connected texts. Research shows that when children practice with isolated words, they have better recall of orthographic patterns and spellings than when they read words in connected text (Ehri, 2020). Reading isolated words is one important type of practice, and reading connected text is another. Reading connected text applies phonics, high frequency words, word analysis skills, and fluency to the meaning of words (Ehri \& Roberts, 1979; Goldenberg, 2020). Magnetic Reading Foundations provides ample opportunities for students to practice word reading fluency and apply the skills they've learned in connected texts.


## Word Reading Fluency

The Student Worktext gives students an opportunity to practice isolated word reading fluency before applying the skills they've learned in connected texts.


## Connected Texts

Connected Texts are available in the Student Worktext for students to apply their phonics and high-frequency word skills to decodable texts.


## Duet Passages

With scaffolded supports, Grade K students learn to decode one word at a time and slowly build to short phrases and sentences.


## Fluency Practice and

## Formative Assessment

Fluency Practice and Formative Assessment is designed to give teachers maximum flexibility for practicing and assessing rate and accuracy, phrasing expression, and intonation/inflection,

## Magnetic Readers

Magnetic Readers are decodable literary and informational little books fully aligned to the Magnetic Reading Foundations scope and sequence. This means they are 100 percent readable to ensure every student has the potential to read every word in every text. Additionally, Magnetic Readers offer a bridge toward reading comprehension with colorful, engaging texts on high-interest weekly topics and unit themes.
Grade K: long o (o, o-e)

"We can hop rope! Hop!" said Ike. "My nose is the rope." Mike hops rope. Mole hops rope.


Grade 2: long o (o, oa, oe, ow


This blowfish lives in the water close to coostlines. The woter is not as cold there as it isin the opens sea.

 $\frac{\text { up. its spikes stic }}{\text { from eoting }}$
(4)

In the following examples words are highlighted to illustrate 100 percent readability of Magnetic Readers.

Phonics Skill: Session 1-2 Phonics Skill: Session 3-4

High-Frequency Word
Previous Phonics Skill
Previous High-Frequency Word
Unit Word
Story Word

A kite takes Mike up. "Mike!" yells Ike. "Time for fun!" Mike dives and is wet!

$$
\begin{aligned}
& \text { When Jade gets home, she can } \\
& \text { tell that something is not right. } \\
& \text { "What is it, Mom?" she asks. }
\end{aligned}
$$ "You look upset."

"It's a big mess, Jade. The load f hoses has been stolen! Dad going to forind out what he can"


This fish stays close to the sea botiom. IT is This tisd the red lipped batish. Do youou know why: Iit looks like It has red lips! When Itite
 Redine

 the botom of the sec.

-

SESSION 3 Build Independence
Before reading, students preview texts, learn
story words, story words, purpose for reading.

SESSION 1 Introduce
(a) Explain the meaning of the ehrase blend in. Tell
children that the word spring can be used both as a
noun and an an action word. Point out hat spring is
used as an action word in the text.
Review the Unit Topic and Weekly Focus with children
Then have children point to the title and read it aloud together. Preview the book. Provide background: plants in the ocean provide food and shelter for many
sea animals. Preteach the Story Words. Then, quide sea animals. Preteach the Story Words. Then, guide
children to set a purpose for reading, such as to find

SESSION 3 Build Indep Point out that, unlike punctuation in Spanish, question
marks and exclamation marks appear at the end of
sentences Covcers, not at both the beginning and the end. Conceprs of print Remind children that a sentence
always ends with a punctuation mark. Point to the first sentence on p. 2. Identify the period and review that a period ends a telling sentence. Ask children to identify the sentences that end with a question mark and an exclamation mar. Discuss he different kinds of en

## Foundation for Meaning Making

Research shows that fluency acts as a bridge between word recognition and comprehension (Pikulski \& Chard, 2005). Fluent reading requires students to apply accuracy, phrasing, intonation/inflection, and expression to the meaning of words (Kuhn et al., 2010). In Magnetic Reading Foundations, fluency instruction begins with accuracy only because there are so many skills to master while reading connected text. As students master skills and gain stamina as readers, fluency instruction progresses to phrasing and intonation/inflection, offering a bridge to comprehension.

|  | SESSIONS 1-4 APPLYTO TEXT | Magnetic Reader |  |
| :---: | :---: | :---: | :---: |
| Is It a Plant? | Let's Read! Is It a Plant? |  |  |
|  | - These sessions may be done throughout the week during whole-group or small-group experiences. <br> - Introduce: Remind children of the Unit Topic, The Underwater World. This week they are learning about plants that grow in the sea. In this text, they will look at some of these plants as well as some sea animals that look like plants. |  | - Genre: Informational <br> - Unit Words: animal, sea, water <br> - Story Words: full, lives, living <br> - Super Words: any, many, most, want |

out how animals can look like plants.
Read aloud the first page as children follow along.
Model pointing to each word and have children do same as they read aloud. Listen and correct errors.
SESSION 2 Practice and Apply Remind children that reading each word accurately will the text fluently as children follow along. Then, model misreading a word and using Confirm and Correct Word Recognition to self-correct. Point out that the
word you read doesn't make sense Read the word word you read doesn't make sense. Read the word
again by sounding it out and blending the sounds. Model using context to confirm that the word is correct. Have children read through p. 5. Remind them to think about whether the words make sense as they read. Guide them to self-correct as needed.
After reading, check for understanding by asking:

- What is the sea full of? living things
- Is sea grass a plant or an animal? a plant


## Fluency instruction begins with

 accuracy. Students learn to self-correct when a word doesn't make sense by sounding it out and blending the sounds.Hon Have children read aloud the rest of the book on their
own or with a partner. Check that children can decode with automaticity and read with accuracy. Remind them to use what they know about letters and sound as well as what is happening in the story to self-correct.
Then have children retell their favorite part of the story. After reading, check for understanding by asking - How many animals that look like plants are in this book? three

## SESSION 4 Make Connections

 Have children reread the book on their own or with a poarner. Then ask children to retell the story.Prompt children to make connections.
Connect to Self: What plants are in or near the place starter: Some plants near me are Prov
Connect to Topic: How does this book connect to the other texts you read this week? All three tell about ocean plants.

Students have the opportunity to practice fluency skills and read for meaning by answering comprehension questions and making connections.

## Conclusion

Magnetic Reading Foundations provides teachers with resources grounded in the Science of Reading, from the systematic scope and sequence and explicit instructional routines to helping students begin to build background knowledge. With Magnetic Reading Foundations, teachers combine their art of teaching with the Science of Reading to move every student from foundations all the way to fluency-and skilled reading.

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