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There's RESEARCH for That

Your K-5
Literacy Instruction
Questions Answered

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Question Organization

Question: The classroom-based question being examined.

Background and Assumptions: Established facts, theories, or ideas. **Definitions.**

Question

What are print concepts, and should they be given instructional attention?
Don't students just naturally learn print
concepts as we teach them to read?

Discussion from the Classroom

UISCUSSION From the Classroom

"Children learn the concept of word in print when you teach the control of the c

Background and Assumptions
In the 1990s, through her cardet (linital) work, Marie Clay made the field aware of
what became known as "concepts about prist" (1991). She revulsed that children do not
naturally know all the mechanics about how prist works (e.g., prist vs., pictures, lefttoright, top-to-bottom, where one word ends and the other begins). She developed an
assessment to text children's understanding of these concepts.

Discussion from the Classroom: Common concerns that teachers voice about the question. Why answering the question is important for classroom practice.

Within the collection of concepts about print, the specific insight about how words work is photal. This is called "concept of word in print." Researchers theorize that before fully acquire and learn how to use letter sounds, children do not really know how to find the boundaries of words (Morris et al. 2003). They tend to treat a sentence as one continuous object, rather than composed of multiple word objects. It appears that children do not use the letter sounds or pay attention to the spaces between words.

Research Studies That Inform the Question

Research Studies That Inform the Question: List of citations for studies that best answer the question. Often these include meta-analyses. These studies are the bases for answering the question.

Research Findings: Translation of findings from

cited studies. Main themes listed as subheadings.

Research Findings $\leftarrow \leftarrow \leftarrow \leftarrow \leftarrow$

Bloker tanding What a Word is in Price Bose Net "Come Staturally".

What are young distinct noising a when they are warthing an adult read to them? Com children howe letters and letter sounds but not understand what a word is in print? As a threat sound, which are sent in himself here to expect soon, and it shis is that insights, about how words work are not natural flavor Them and Trabman 2022; busine or al. about how words work are not naturally appressed to expect the common of the co

Children Develop Concept of Word in Predictable Patterns

How can we full that children know where one printed word begins and another ends, and why is that even important? Researcher Morris and colloagues; 2003 found that if you call children to menorize all into of print and then words them by to coordinate the woods that they say as they point, you can understand their understanding of words. A children are bearing letters and letter counds, they also most found how to see that information in the acts of reading and writing. When young children look at a line

So What? Actions for the Classroom: Actionable steps or instructional choices based on the findings.

As children advance, they should be able to content their own pointing, especially with polyyidals would. It muded this, however, by showing them they your lingue stays the polyyidals would. For much of this, however, by showing them they your lingue stays and the poly of the polyyidal stays and the polyyidal stay of the polyyidal stays and the polyyidal stay of the polyy with the same story/rhyme/sentences and ask them to do it. We have used this in researe with preschoeders (Mosmer and Lake 2000). Some educators and researchers discourage using individual books, because children are not actually decoding the words (Lindsey 2022). If that is your perspective, ask children to participate in a whole-group setting. The research does not point to individual books being enther harmful or protein to midvidual books being enther harmful or protein to midvidual books being enther harmful or protein. What are print concepts? Should they be given instructional attention? There it goes! See the cat!

Translational Graphics: Graphic that lists the main classroom applications of the findings along with the citations.

Another quasi-experiment examined a similar intervention with Hebrer-speaking children who were rankomly assigned to one of two groups an interactive shared more of the control of the co

So Wind? Actions for the Classroom

Do Bid Assume Students Conceptually Understand the

Officence Delivers Letters, Morth, and Testimates

The research demonstrates that many children in researching the Control of th

as you are exacting betters. Intrit, as discrimost nestow, my on modering and surrier participation for brilling insights abott how words work as much as you depend on direct oplanation. Usually, direct oplanation will not go as far in developing understandings as coping modeling and shared participation. The teaching of lett must be constantly integrated with learning how those letters work and why in the world you might learn them!

TaceA Print Concepts Buring Shared Whole-Group Reading

There is a well-known piece of advice that fiction writers are given about developing a story: "Show, don't tell." This advice also applies to print concepts and concept of word.

Other Useful Resources: Additional articles, how-to pieces, or theories about the topic, often not research.



Question 1

I know that "letter of the week" is not the way to go, but how many letters should I teach per week?

Discussion from the Classroom

Most teachers know that the tradition of teaching one letter per week is not effective (Sunde, Furnes, and Lundetræ 2020). Here are some of the reasons that teaching this way is not the best idea for students:

- It is too slow. There are twenty-six letters and thirty-six weeks in the typical school year. If you teach only one letter per week, students do not know all the letter sounds until about April.
- 2. Not all letters require a full week. Some letters children already know. In fact, most children will know the letters at the beginning of the alphabet as well as some of the letters in their name (Drouin, Horner, and Sondergeld 2012; Phillips et al. 2012). Why teach letters children know? And why spend a week on Aa if everyone already knows it?
- 3. Not everyone needs the same amount of letter instruction. In one study, kindergartners knew between one and fifty-two letters (Phillips et al. 2012), meaning that children did not all need the same letter instruction, a point made by other researchers (Stahl 1998; Treiman 2000).
- 4. Not all letters present the same level of difficulty for learners (Drouin, Horner, and Sondergeld 2012). Some are harder and need more time, and others are easier and need less time.

Of course, teachers, being the pragmatic professionals that they are, always ask, "Okay, so if one letter per week is too few, then what number is right? How many

letters *should* I teach per week? What does the research say?" Three studies specifically addressed different rates of letter introduction to learners (Jones and Reutzel 2012; Sunde, Furnes, and Lundetræ 2020; Vadasy and Sanders 2021).

Background and Assumptions

Many teachers are familiar with the term *letter*, but fully understanding how an alphabetic system works requires understanding the more technical terms *phoneme* and *grapheme*. Below are brief definitions of these terms:

- → **Phoneme.** A *phoneme* is a speech sound, the smallest unit of sound in a language that differentiates meaning. For example, the words *cat* and *cot* differ by one speech sound, *a/o*, and that difference distinguishes the words' meanings (e.g., *animal* vs. *small bed*).
- → **Letter.** A *letter* is a unit in an alphabetic writing system that usually represents just one phoneme or speech sound. Letters combine to form words. There are two types of letters, consonants and vowels, representing phonemes formed in a variety of ways.
- → **Grapheme.** Within the context of literacy research and instruction, a *grapheme* is the written expression of a phoneme made up of one or more letters. In English there are 26 letters but about 44 phonemes; to represent all the phonemes, some graphemes combine letters. (e.g., *beat*, *toil*, *bark*).

Research Studies That Inform the Question

Jones, C. D., and D. R. Reutzel. 2012. "Enhanced Alphabet Knowledge Instruction: Exploring a Change of Frequency, Focus, and Distributed Cycles of Review." Reading Psychology 33 (5): 448–464.

Sunde, K., B. Furnes, and K. Lundetræ. 2020. "Does Introducing the Letters Faster Boost the Development of Children's Letter Knowledge, Word Reading and Spelling in the First Year of School?" Scientific Studies of Reading 24 (2): 141–158.

Vadasy, P. F., and E. A. Sanders. 2021. "Introducing Grapheme-Phoneme Correspondences (GPCs): Exploring Rate and Complexity in Phonics Instruction for Kindergartners with Limited Literacy Skills." Reading and Writing 34: 109–138.

Research Findings ← ← ← ← ←

An Average of Three Graphemes per Week Resulted in Better Learning, Especially for Lower Skilled and Multilingual Learners

In our opinion, an experimental study by Vadasy and Sanders (2021) provides the most helpful guidance on how many letters to introduce per week. Researchers identified kindergarten and first grade students, including multilingual learners, who did not have high levels of letter knowledge and randomly assigned them to one of the following groups:

- 1. Slow: five weeks of instruction in ten letters, two per week
- 2. Fast: five weeks of instruction in fifteen letters, three per week

Interestingly, these researchers did not simply teach single-letter graphemes but also taught some multi-letter units. All students were taught the graphemes *a, m, ea, s, t, oo, d, o, sh,* and *r,* and students in the Fast group were also taught *n, ai, g,* and *ck.* After five weeks, researchers tested students on (a) letter names (taught); (b) letter sounds (taught); (c) letter spellings (taught); (d) word reading (consonant-vowel-consonant [cvc]); and (e) spelling (cvc). Students in the Fast group had learned more graphemes. This study suggests that at-risk kindergarten and first grade students, as well as students who are multilingual learners, learn more graphemes when taught three per week.

Teachers Who Introduce All Letters Earlier in the Year Positively Impact Learning, Especially for Lower Skilled and Multilingual Learners

A study in Norway examined natural differences that teachers reported in rates of letter introduction across the school year (Sunde, Furnes, and Lundetræ 2020). This was not an experimental study, and there was no random assignment to different rates of instruction. Researchers examined the impact that different rates of letter instruction had on over 900 children's (a) letter knowledge; (b) word-reading accuracy; (c) sight-word efficiency; and (d) spelling after a year.

Students took tests on the four measures at the beginning and end of the year, and researchers used a teacher survey to identify their rate of letter instruction. The main question on the survey was, "By the end of which month did you complete the first introduction of the letters?"

Children who learned letters at faster paces performed best on all measures (letter knowledge, word reading, sight word, and spelling). This was especially true for the lowest performing children and for multilingual learners. About 50 percent of teachers introduced all letters by December. If students learn letters earlier, they may have more time for repetition and practice, more time to learn how to *apply* letter-knowledge to

decoding and spelling, and more time with the harder letters. Essentially, there is a timesaving efficiency that benefits students.

We want to provide a few caveats and clarifications about this study. In the study, the mean age of children at school entry was about 6.5 years, making them at least one year older than most kindergartners in the United States. In addition, the Norwegian language is more regular than English, meaning there are fewer "exception" words (e.g., said, of, enough).

Repeated Letter Cycles with One Letter per Day and Formative Assessment Resulted in Fewer At-Risk Students

In a two-year longitudinal study, researchers tested the impact of what they called Enhanced Alphabet Knowledge (EAK) instruction in comparison to traditional instruction (Jones and Reutzel 2012). This was not an experimental study; students were not randomly assigned instructional treatments. Instead, each teacher used either EAK or traditional instruction. EAK instruction included the following: (a) letter-a-day pacing with increasing flexibility; (b) distributed review cycles; and (c) lessons that efficiently teach students alphabet knowledge. Distributed review is review that takes place over a longer period and, in this study, formed 10 to 20 percent of the instructional time. The study took place in four urban schools, with nine teachers and over two hundred students using EAK and four teachers and ninety-two students using a traditional approach in Year 1.

Based on the Letter Naming Fluency measure of the Dynamic Indicators of Basic Early Literacy Skills (DIBELS), the study showed that by the end of the first year, EAK instruction reduced the number of at-risk students and increased the number of students meeting the benchmark. EAK instruction was 1.5 times more effective at reducing risk and 2.9 times more effective at helping students meet the benchmark. The EAK instruction was multidimensional, and all three elements of it—review, formative assessment, one letter per day—contributed to its effectiveness.

So What? Actions for the Classroom

Teach Three to Five Letters per Week, with All Letters Introduced by December

Together, the three studies offered several big takeaways. First, learners, including multilingual and at-risk learners, learned more when their teachers presented three to five letters per week. In another study, teachers who introduced all the letters by December saw more growth. This is interesting because teachers' instincts often say to slow down with learners who are struggling, but in the case of letters, slower was not

better. Of course, the details of the letter instruction are important. Fast, sloppy teaching will not be effective, and just going fast is not the only ingredient. So, in following a pace of three to five letters per week, make sure to follow the additional research-based suggestions.

Teach Letters in Assessment-Informed Cycles with Predictable Routines

A study of letter cycles showed that after presenting all the letters, teachers assessed students to see which letters needed more time and for which students. Then they taught those specific letters to students who needed to learn them. Their pacing and selection of content was driven by responsive instruction. Simply reteaching content without assessment is inefficient and wastes instructional time. The teaching routine was clear and simply asked students to identify the letter name and sound, recognize the letter in text, and write the letter.

Use Distributed Review

The research on practice tells us that distributed review over days is better than longer practice sessions that take place less frequently. The most successful letter instruction used 10 to 20 percent of the instructional time to practice letters recently learned while also reviewing some that were learned less recently. It can take four to six weeks for some content to really stick. In addition, with a short, daily practice session reviewing previous letters, a teacher can quickly reteach or emphasize content that may have "slipped" over a break or a long weekend. So, teach a bit faster, but also review systematically each day using about 10 to 20 percent of the instructional time. Keep the practice uncomplicated and offer each child many opportunities to identify letter sounds.

For a graphic that shows the answer to this chapter's question, turn the page!

How many letters should I teach per week?

abcde fghijklmn opgrstuv **WXYZ**

Three to five letters per week

In an experimental study, at-risk and multilingual learners learned more with a three-letters-perweek routine.

In a study with multiple components, a pace of one letter per day resulted in more students meeting benchmarks in letter naming.



Review letters based on assessment

Teachers used assessments after teaching all letters to see which students needed more time for which letters.



Introduce all by December

In a longitudinal study, children whose teachers introduced all letters by December learned more—this was especially true for at-risk and multilingual learners.



Distributed Review 10% to 20% of instructional time

At-risk and multilingual learners benefit from a faster pace.

(Jones and Reutzel 2012; Sunde, Furnes, and Lundetræ 2020; Vadasy and Sanders 2021)