

Differentiated Instruction

The Lexile Framework[®] for Reading

February 19, 2009

DIBELS Summit

Presented by:

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LINKING ASSESSMENT WITH INSTRUCTION

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Differentiated Instruction

- Understand content progression
- Determine student readiness
- Differentiate instruction by linking students with appropriate instruction at their level

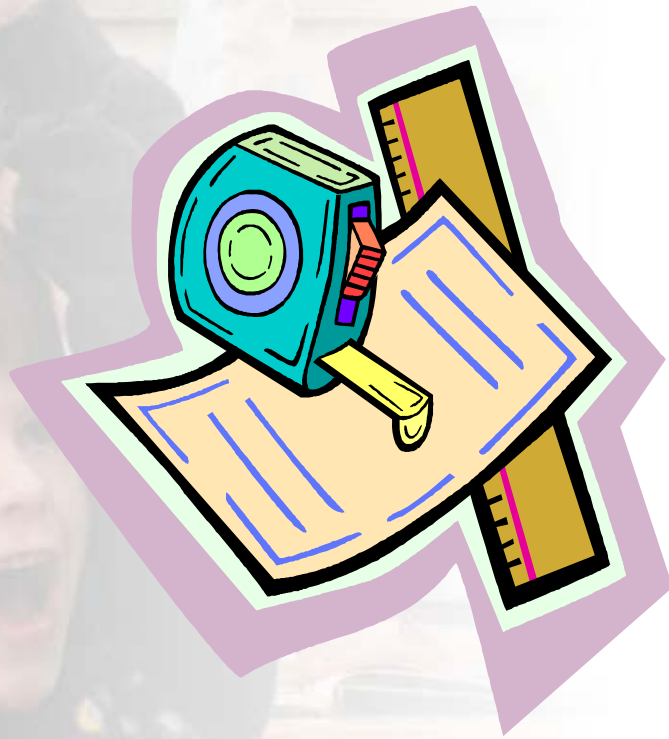


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Lexiles are like inches...



- A universal, accurate measurement system
- Used to measure a student's current "size" and growth over time
- Not grade specific - students come in different sizes and grow at different rates



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The Lexile Framework for Reading



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Big Ideas

The Lexile scale provides a single
metric for reporting
Reader Ability and Text Readability

The Lexile scale is a
Developmental Scale



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The Lexile Framework for Reading

- An educational tool that links text and readers under a common metric - Lexiles
- Characterizes reader with a measure and text with a measure
- Allows educators to forecast the level of comprehension a reader is expected to experience with a particular text

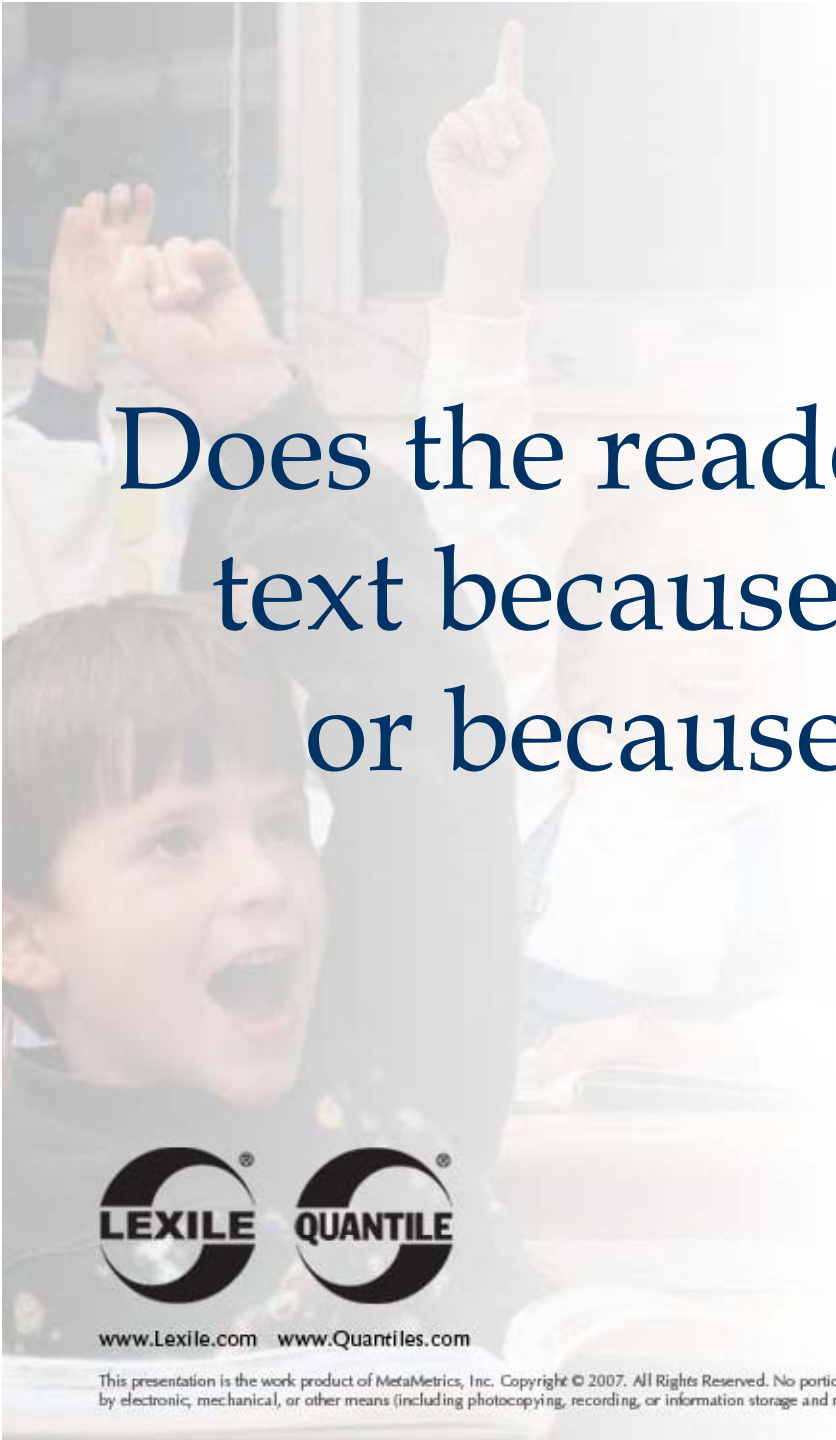


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Does the reader comprehend the text because the reader is able, or because the text is easy?



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Lexile Comprehension Model

Reader Ability (in Lexiles)

- **Text Readability (in Lexiles)**

Forecasted Comprehension

*When $RA - TR = 0$, Comprehension = **75%***



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Lexile Comprehension Model

Reader Ability - Text Readability = Comprehension

“Targeted” Comprehension = 75%

Independent Reading

600L (reader) - 600L (text) = 0

(75% forecasted comprehension)

Educators can adjust forecasted comprehension by changing the text options given to a reader

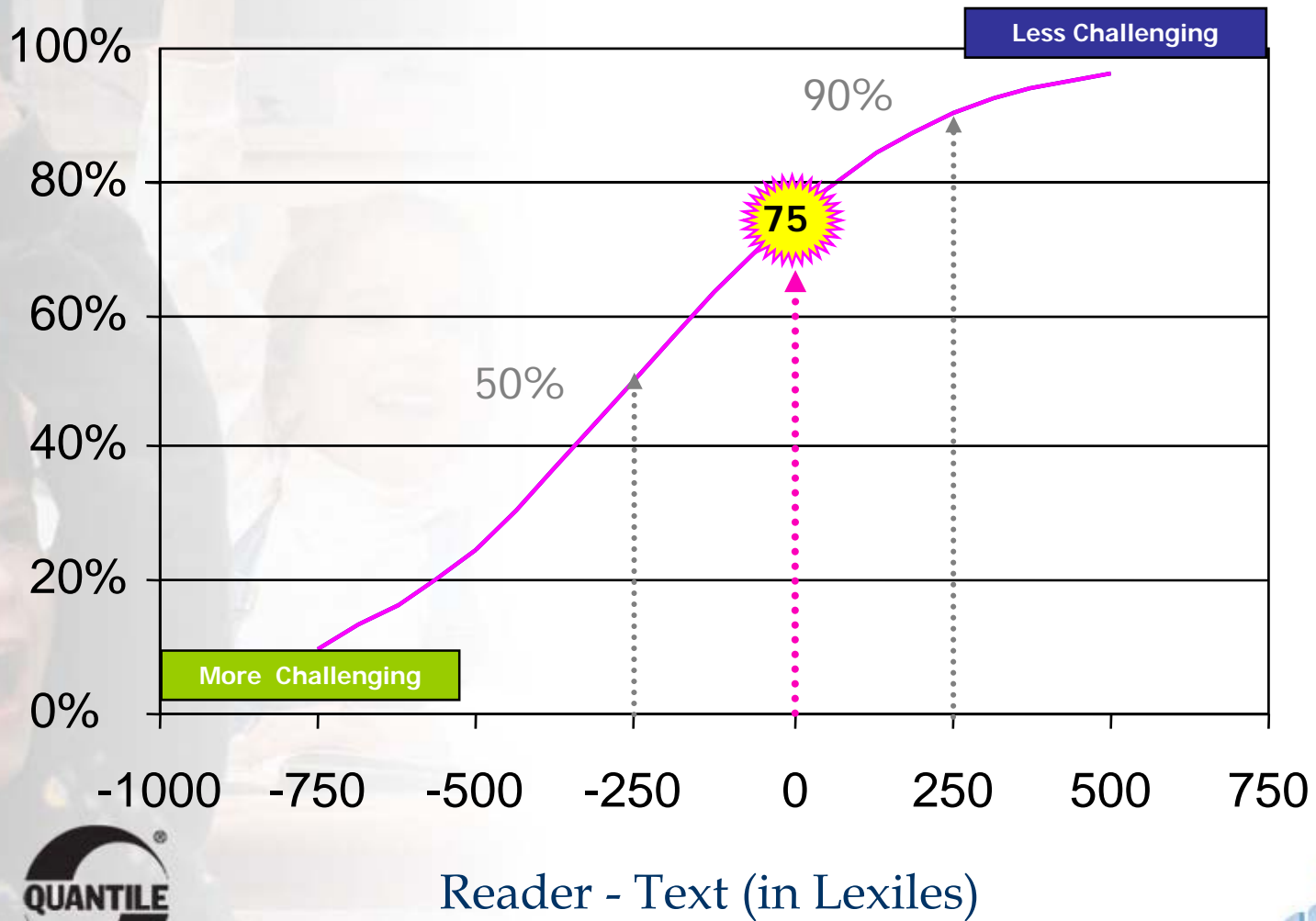


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Forecasted Comprehension Rate



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Reader - Text (in Lexiles)



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Building Reading Ability...

- A reader strengthens his/her ability by reading matched text – text that is within his/her Lexile range.
- As a reader's ability increases, comprehension and the text level he or she can comprehend increases.
- While tests help us estimate reading ability, the best measure of a reader's ability is the level of text he/she can read and comprehend.
- Practice reading skills with text a student can comprehend.



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Limitations of Lexile Measures

What Lexile text measures don't address

Text Characteristics

- Age-appropriateness of Content
- Text Support
- Text Quality

Reader Characteristics

- Interest and Motivation
- Background Knowledge
- Reading Context and Purpose

- ✦ Lexile text measures only measure text readability.
- ✦ Therefore, input from readers, parents, teachers and librarians is necessary.



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Lexile Framework Components

Lexile Analyzer[®]
provides the
Text Measure

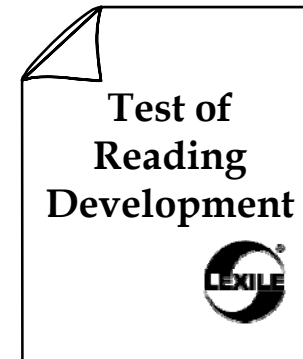


Lexile Map
Illustrates the
Lexile Scale



Lexile	Lexicon Titles	Benchmarks	Tests/Textbooks
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000
1100	1100	1100	1100
1200	1200	1200	1200
1300	1300	1300	1300
1400	1400	1400	1400
1500	1500	1500	1500
1600	1600	1600	1600
1700	1700	1700	1700
1800	1800	1800	1800
1900	1900	1900	1900
2000	2000	2000	2000
2100	2100	2100	2100
2200	2200	2200	2200
2300	2300	2300	2300
2400	2400	2400	2400
2500	2500	2500	2500
2600	2600	2600	2600
2700	2700	2700	2700
2800	2800	2800	2800
2900	2900	2900	2900
3000	3000	3000	3000
3100	3100	3100	3100
3200	3200	3200	3200
3300	3300	3300	3300
3400	3400	3400	3400
3500	3500	3500	3500
3600	3600	3600	3600
3700	3700	3700	3700
3800	3800	3800	3800
3900	3900	3900	3900
4000	4000	4000	4000
4100	4100	4100	4100
4200	4200	4200	4200
4300	4300	4300	4300
4400	4400	4400	4400
4500	4500	4500	4500
4600	4600	4600	4600
4700	4700	4700	4700
4800	4800	4800	4800
4900	4900	4900	4900
5000	5000	5000	5000

Linking Technology
provides the
Reader Measure



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Linking DIBELS ORF with the Lexile Scale



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Assessments

- DIBELS Oral Reading Fluency
 - Winter/Spring, Grades 1 through 3
 - Middle passage from benchmark assessment



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Assessments

- Lexile Linking Test
 - Item Formats
 - Pictures
 - Single-sentence items
 - Response-illustrated items
 - Measure reading comprehension



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Every day after school for a week, Pam worked the new ponies in the ring. She was very tired. But when Pam heard Woolie's bark early Saturday morning, she jumped right out of bed anyway. She wanted to get her barn chores done early today. This morning and all weekend she was going riding with her friends.

She was _____.

- A. safe
- B. worried
- C. eager
- D. slow



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Assessments

- Lexile Linking Test
 - Number of Items
 - Grade 1 (85L): 12 pictures and 25 single-sentence
 - Grade 2 (418L): 35 items (including some single-sentence)
 - Grade 3 (474L): 40 items
 - Time



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Sample

- Two school districts
 - Florida, $N = 1,094$
 - West Virginia, $N = 582$



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Results

- Lexile Linking Test Results

Grade	N	Lexile measure	Range
1	372	45.62 (300.08)	BR to 613
2	473	477.24 (233.89)	BR to 964
3	466	598.77 (235.18)	BR to 1042



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Results

- Matched Sample Results

Grade	N	Lexile measure	DIBELS ORF
1	363	49.87 (297.94)	52.92 (34.73)
2	438	481.79 (233.88)	91.18 (31.96)
3	407	608.65 (229.04)	106.74 (31.39)



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Results

- Matched Sample Results

Grade	<i>N</i>	Correlation Between DIBELS ORF and Lexile measure
1	363	.795
2	438	.687
3	407	.664



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Results

- Matched Sample Results
 - Conversion Tables for Grades 1 through 3
 - Linking functions to express DIBELS ORF scores in the Lexile metric



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Resources to Help Implement The Lexile Framework in the Classroom



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The Lexile Framework[®] for Reading

Matching readers to text

The Lexile Framework for Reading is an innovative approach to reading comprehension that can be used by educators, parents and readers of all ages. Lexiles take the guesswork out of selecting targeted books and articles that can help to improve reading skills-by matching readers to appropriate texts.

[Find titles using the Lexile Book Database](#) ➔

[What does my Lexile measure mean?](#) ➔

[Lexile Professional Development](#) ➔

[2007 Lexile National Reading Conference](#) ➔

educators

➤ **Learn about Lexiles in the classroom and library.**

families

➤ **Use Lexiles to find books for your child.**

researchers

➤ **Discover Lexile research and theory.**

partners

➤ **License Lexile technology to measure materials.**

The Lexile Framework for Reading - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media

Address <http://www.lexile.com/DesktopDefault.aspx?view=ed&tabindex=2&tabid=16> Go Spam Inspector Clean Inbox Is Spam Not Spam Bounce

Google Search Web PageRank 1238 blocked Options



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Search

Tools

The Lexile Framework for Reading makes a variety of powerful tools available to educators and families. Use these tools to get a better understanding of a text's difficulty, calculate the forecasted comprehension a reader will have with a particular text, or search for an English or Spanish book in our extensive database.

This section offers tools designed to meet instructional, assessment, training and forecasting needs:

- **Lexile Book Database** is useful to find books that are similar to the student's reading level. This database contains tens of thousands of English and Spanish fiction and non-fiction trade-book titles from over 450 publishers. All titles are processed with whole-text measurement using the Lexile Analyzer.
- **Lexile Analyzer** allows you to analyze text, literature and supplementary materials. This service is available to licensed users only, is designed for use with English text only, and may not be used for commercial use without a contractual agreement.
- **Lexile Calculator** is a tool for examining the comprehension rate between a reader and a text. Using the Lexile Calculator, you can calculate the rate at which a student is expected to comprehend a text, as well as the reading ability a reader is expected to need in order to comprehend a text at a given level.
- **Lexile Power Vocabulary** is a systematic and individualized approach to vocabulary development that enables teachers to assist students in grades 2 through 12 to improve their reading comprehension skills.
- **Lexile Reading Pathfinders** support educators and parents in their efforts to select books that students can read independently -- both at school and home. By using Lexile Reading Pathfinder lists, readers can select texts relating to particular topics and at their reading level.

Use the Lexile Book Database to:

- Determine the Lexile measure of a book (using title, author, or ISBN#)
- Find books related to a topic or theme in a targeted Lexile range through a Keyword Search



Title or Author Search

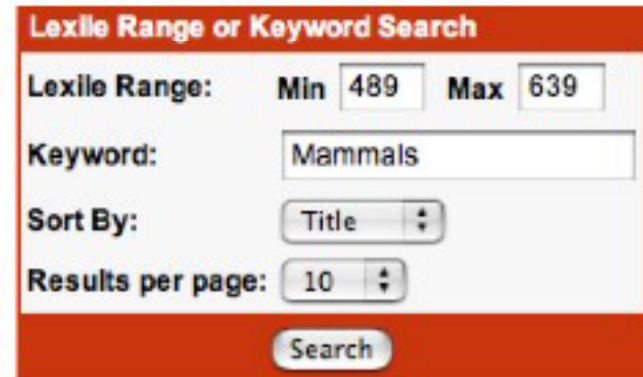
Title:

Author:

Sort By:

Results per page:

OR



Lexile Range or Keyword Search

Lexile Range: Min Max

Keyword:

Sort By:

Results per page:



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The Lexile Framework for Reading

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- Book Search
- FAQ
- Lexile Store

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- Contacting Publishers

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Search

Book Search

Results : 1 - 10 of 37

Title	Author	Lexile
Assassination of Martin Luther King Jr., The	Stein, R. Conrad	930
Day Martin Luther King, Jr. Was Shot, The	Haskins, Jim	1140
Dear Dr. King: Letters from Today's Children to Dr. Martin Luther King, Jr.	Colbert, Jan and Ann McMillan Harms	700
Free at Last!: The Story of Martin Luther King, Jr.	Bull, Angela	720
Great African Americans In Civil Rights	Rediger, Pat	960
I Have a Dream	King, Jr., Dr. Martin Luther ; foreward by	1130
Learning About Dignity from the Life of Martin Luther King, Jr.	Strazzabosco, Jeanne	660
Let's Dream, Martin Luther King, Jr.!	Roop, Peter and Connie	750
Let's Get Ready for Martin Luther King Jr. Day	Douglas, Lloyd G.	430
Let's Read About... Martin Luther King, Jr.	Baker, Courtney	380

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Quick Book Search

Advanced Book Search

This form allows you to search the Lexile Database. Fill out as much or as little information as you'd like. When searching by Lexile measures, you can enter one number to return exact matches. Inputting both minimum and maximum Lexile scores will return all books within that range.

Advanced Book Search	
Title:	<input type="text"/>
Author:	<input type="text"/>
ISBN:	<input type="text"/>
Lexile Range: Min:	<input type="text"/>
Max:	<input type="text"/>
Lexile Code:	<input type="text"/> What Are Lexile Codes?
Publisher:	<input type="text"/>
Copyright Year:	<input type="text"/>
Book Type:	<input type="text"/>
Reading Series:	<input type="text"/>
Book Awards:	<input type="text"/>
Development Rating:	<input type="text"/>
Titles Added Since Date (mm/dd/yyyy):	<input type="text"/>
Keyword(s):	<input type="text"/>
Sort by:	<input type="text"/>
Results per page:	<input type="text"/>
<input type="button" value="Search"/>	

The Lexile measure of a book refers to its text difficulty only. A Lexile measure does not take the subject matter or content of the book into consideration. Lexile measures are based on two well-established predictors of how difficult a text is to comprehend: word frequency and sentence length. Many factors other than these affect the relationship between a reader and a book, including its content, the age and interests of the reader, and the design of the actual book. The Lexile measure is a good starting point in your book-selection process, with these other

Lexile resources for matching text and reader

“Find a Book” Web site

- Available free at www.lexile.com/findabook
- Choose good books and maximize comprehension with selections based on:
 - Student’s interests
 - Student’s Lexile range



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Use the Lexile Analyzer to:

- Determine the readability level of:
 - Documents saved as text (.txt) files
 - Teacher-prepared materials
 - Scanned documents (translated to text with optical character recognition - OCR - software)
 - Text copied from the Internet

Lexile Analyzer - Professional Edition

[Lexile Analyzer User Guide](#)

Upload your text file. Type the filepath in the field below, or click Browse to select the file from your computer.

File To Analyze: Inocuous Fire Story.txt

*Auto-edit this file

Please be sure to make note of this information.

It will not be stored and may only be recreated by analyzing the file again.

Lexile Analyzer Result

Lexile Measure:	1050L
Word Count:	1060
Mean Sentence Length:	16.825
Mean Log Word Frequency:	3.546

[Download edited file](#) to review changes made by the Auto-Editor to ensure



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The Lexile Framework for Reading

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Lexile Analyzer

Upload your file. Type the filepath in the field below, or click Browse to select the file from your local hard drive.

Lexile Analyzer

File To Analyze:

The Lexile Analyzer, developed by MetaMetrics, analyzes text to produce a Lexile measure. The measure you receive using the online version of the Lexile Analyzer cannot be marketed in any way. Registration is required to use the online Lexile Analyzer, and usage data will be collected. For an official Lexile measure and the right to use the Lexile measure on your text in-market, contact MetaMetrics.

The Lexile Analyzer can be used to obtain measures for already published materials or as a tool to help authors target their writing to the specific audience they wish to serve. If you are interested in using the Lexile Analyzer to obtain a measure for a published work, you may wish to conduct a search in the Titles Database first. It is possible that the title may have already been analyzed and assigned a Lexile measure.

Use Lexile Power VocabularyTM to:


- Find vocabulary development resources, games, and tests that have been developed for 80+ Lexiled books
 - Downloadable and printable in PDF format
 - Titles and levels range from *Amos and Boris* to *Heart of Darkness* (410L to 1190L)

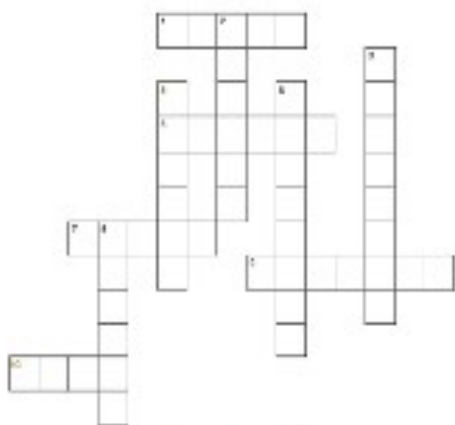


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Amos and Boris
by William Steig

Power Vocabulary Activity 



ABOUND
AFLOAT
AKIN
EVADE
INCIDENT

LEISURE
LUMINOUS
MAMMAL
RODENT
TREAD

Across

- to slip away
- to have a large amount of something
- to keep the body nearly upright in the water and the head above water by a back and forth motion of the feet usually aided by the hands
- time free from work or duties
- belonging to the same family; similar

Down

- floating on water
- shining or glowing
- a warm-blooded animal with a backbone; female mammals produce milk to feed their young
- something that happens; an event
- a small mammal with large, sharp front teeth that it uses for gnawing things



The Lexile Framework for Reading

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Lexile Power Vocabulary

Lexile Power Vocabulary is a systematic and individualized approach to vocabulary development that enables teachers to assist students in grades 2 through 12 to improve their reading comprehension skills. The right-hand columns provide the links to the instructional applications: student word lists, activities and assessment (S), and teacher answer keys (T).

MetaMetrics develops Lexile Power Vocabulary lessons in a two-stage process: words are selected and then instructional applications are developed. For books where the instructional applications have yet to be developed, we have provided the words for you to use (W).

Select a letter to see the PowerV titles: [PowerVs](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Title	Author	ISBN	Lexile	Words	PowerV	Answer Key
Across the Lines	Reeder, Carolyn	0380730731	1000		S	I
Amos and Boris	Steig, William	0374302782	AD690		S	I
Ballad of the Civil War, A	Stolz, Mary	0060273623	680		S	I
Baseball in April and Other Stories	Soto, Gary	0152057218	830	W	S	I
Becoming Felix	Wilson, Nancy Hope	0374306648	710		S	I
Behind the Couch	Gerstein, Mordicai	0786811390	610		S	I
Black Pearl, The	O'Dell, Scott	0440411467	980		S	I

Lexiles in the Classroom



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Using Lexiles in the Classroom

Teachers can use the Lexile measure to:

- Develop individualized or classroom reading lists tailored to different measures to provide appropriately challenging reading.
- Enhance thematic teaching by building a bank of titles at varying levels that support the theme, but also allows all students to participate successfully in the theme with material at their own reading level.
- Sequence materials by increasing the difficulty of read-aloud books throughout the year.



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Using Lexiles in the Classroom

- Develop a reading folder that goes home with students and comes back for weekly review. Folder might contain:
 - a reading list of books within the student's Lexile range
 - reports of recent assessments
 - a form for parents to record reading that occurs at home.



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Using Lexiles in the Classroom

- Vary reading difficulty of material to the situation:
 - Choose texts lower in the student's Lexile range when factors make the reading situation more challenging, threatening or unfamiliar.
 - Select texts at or above the student's range to stimulate growth when a topic is of extreme interest to a student, or when you will be giving additional support such as background teaching or discussion.



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Lexiled Classroom Resources

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Use Internet databases to:

- Find on-line periodical articles and instructional resources by Lexile measure
- Build tiered supplemental reading lists on content topics (to support differentiated instruction)
- Support student web-quest activities



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Subscriptive Web Resources

- NetTrekker
- Alexandria
- Ebsco
- Follet
- Grolier Online
- NewsBank
- Proquest
- Questia
- Sagebrush
- Thomson-Gale



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Consult Your Librarian

- Check to see if your school (and/or public) library has been Lexiled (and, if so, how to access Lexile information about the collection)
- Media Specialists are also a good resource. Access to Resource Sites such as Grolier and Ebsco.
- Options for Lexiling a library:
 - Use the Lexile Book Database to look up levels:
 - www.Lexile.com/booksearch
 - Have parent or student volunteers look up your books!
 - Update your MARC Record Database
 - E.g., Follett Software Company's Find-a-Book Service (Update MARC Record Tag 521)
 - Similar services are also available through Alexandria, Sagebrush and other providers



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Use Other Lexile Partner Resources

- **Scholastic SRI, Reading Counts, Read 180, and book catalogs:** Reading improvement products based on Lexiles
- **EdGate Total Reader:** Content reading passages used to assess students' Lexile levels
- **Achieve3000 KidBiz and TeenBiz:** Online student periodicals that adapt to students' Lexile levels
- **Voyager Passport Reading Journeys**



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Summer Learning Research

- Entwisle, Alexander and Olson (1997)
- Random sample of 800 Baltimore public school students
- Children from families of high- and low-SES made equivalent gains on math and reading during the school year
- Achievement of students from low-income families either fell or stagnated *during summer*



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Summer Learning Research

- James S. Kim (2006)
- Project READS randomized field trial
- Low-income students made summer *gains* when reading materials were:
 - In students' selected area(s) of interest
 - At an appropriate difficulty level
- Gains comparable to those made in summer school



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References

Entwisle, D.R., Alexander, K.L. & Olson, L.S. (1997). *Children, schools, and inequality*. Boulder, CO: Westview Press.

Kim, J.S. (2006). Effects of a voluntary summer reading intervention on reading achievement: Results from a randomized field trial. *Educational Evaluation and Policy Analysis*. 28(4).



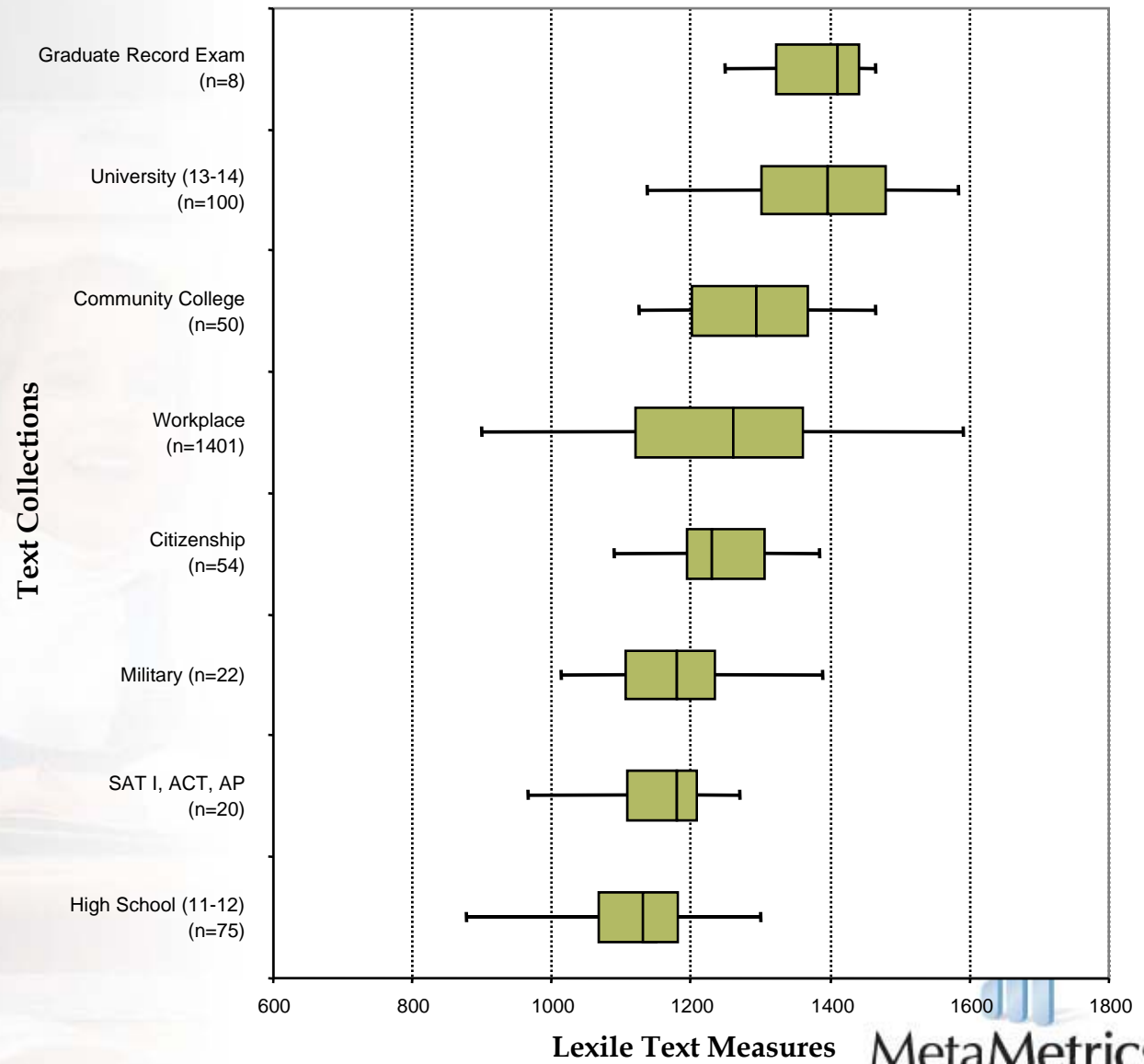
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Postsecondary Options

Box Plots for Selected Text Collections That Inform the Transition from High School to Postsecondary Experience
(Percentiles: 5th, 25th, 50th, 75th, 95th)

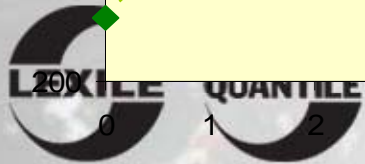
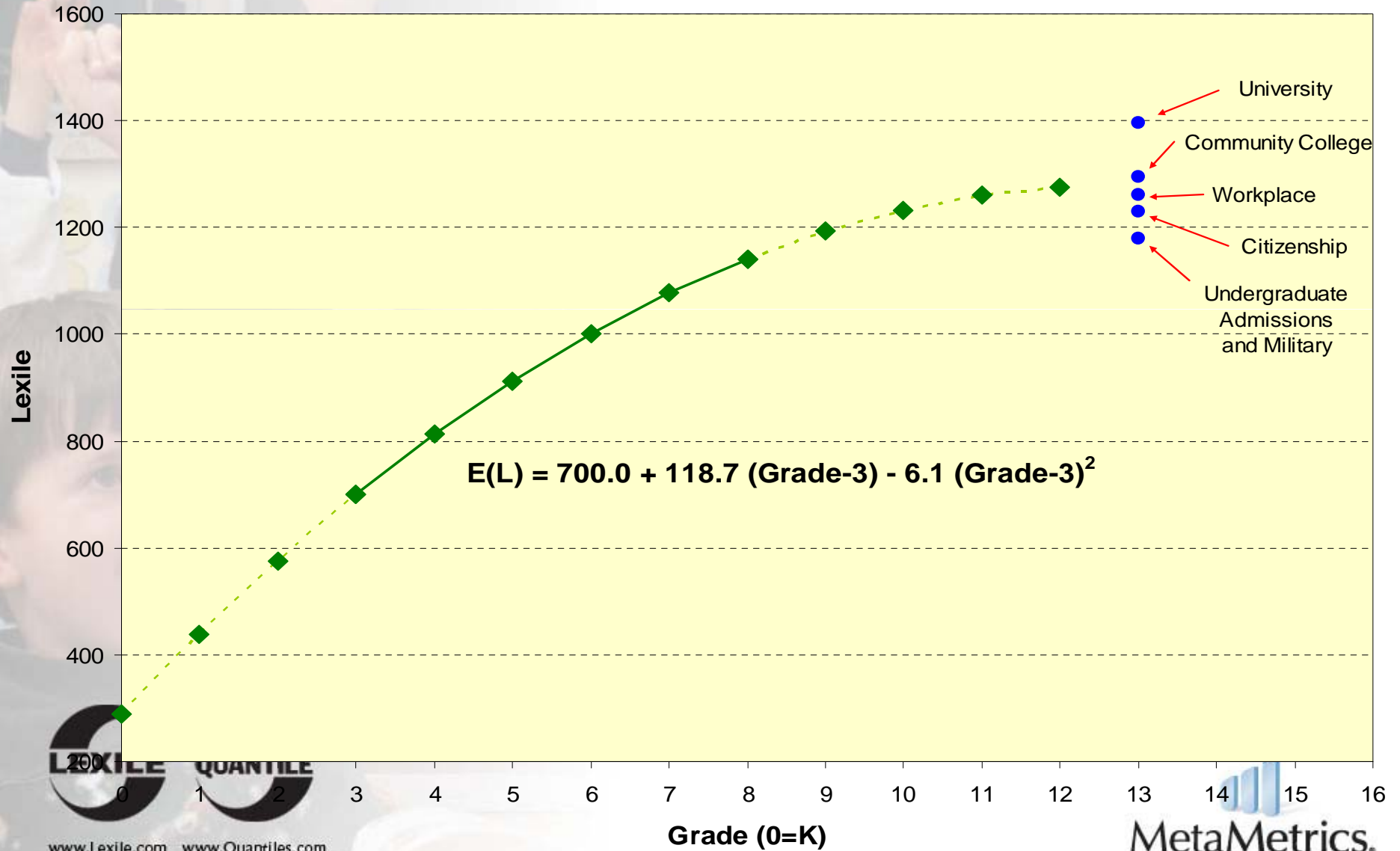


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Extrapolated Growth Curve with Median Postsecondary Text Measures



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Lexiles and Differentiation

- Supplement teaching materials to reach more students at their Lexile level
 - Develop tiered book lists: Use the Lexile Book Database, your school/community library, and online resources to find relevant books at varied Lexile levels
 - Develop tiered resource lists: Use online resources and the Lexile Analyzer to find supplementary materials to address topics or themes in your classroom



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Lexiles And Differentiation

Increasing Learning

- **How can I increase learning/growth for all students?**
 - **Matched text:** Use Lexile matching to engage students with accessible text and increase success.
 - **Scaffolding:** Provide additional support for students not ready for grade-level text demands.
 - **Accessible instructions:** Use the **Lexile Analyzer** to check the reading level of teacher-developed materials.
 - **Tiered assignments/homework** differentiated by readiness: Use the **Lexile Book Database**, EBSCO, etc.



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Lexiles And Differentiation

Measuring and Celebrating Growth

- **Assessment:** How can I measure improvement in students' reading levels?
 - Use classroom-level assessments (e.g., PASeries, SRI) - along with state/district tests - to measure Lexile growth over time.
- **Charting Progress:** How can I represent and communicate improvement?
 - Develop a classroom **Lexile Reading Growth Chart** or **Lexile Map** to communicate where students are and how they are progressing.
- **Empowerment:** How can I involve students and families as partners?
 - Use **Lexile.com** resources to empower students/families.



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