SREB

Literacy and Numeracy Levels for Careers

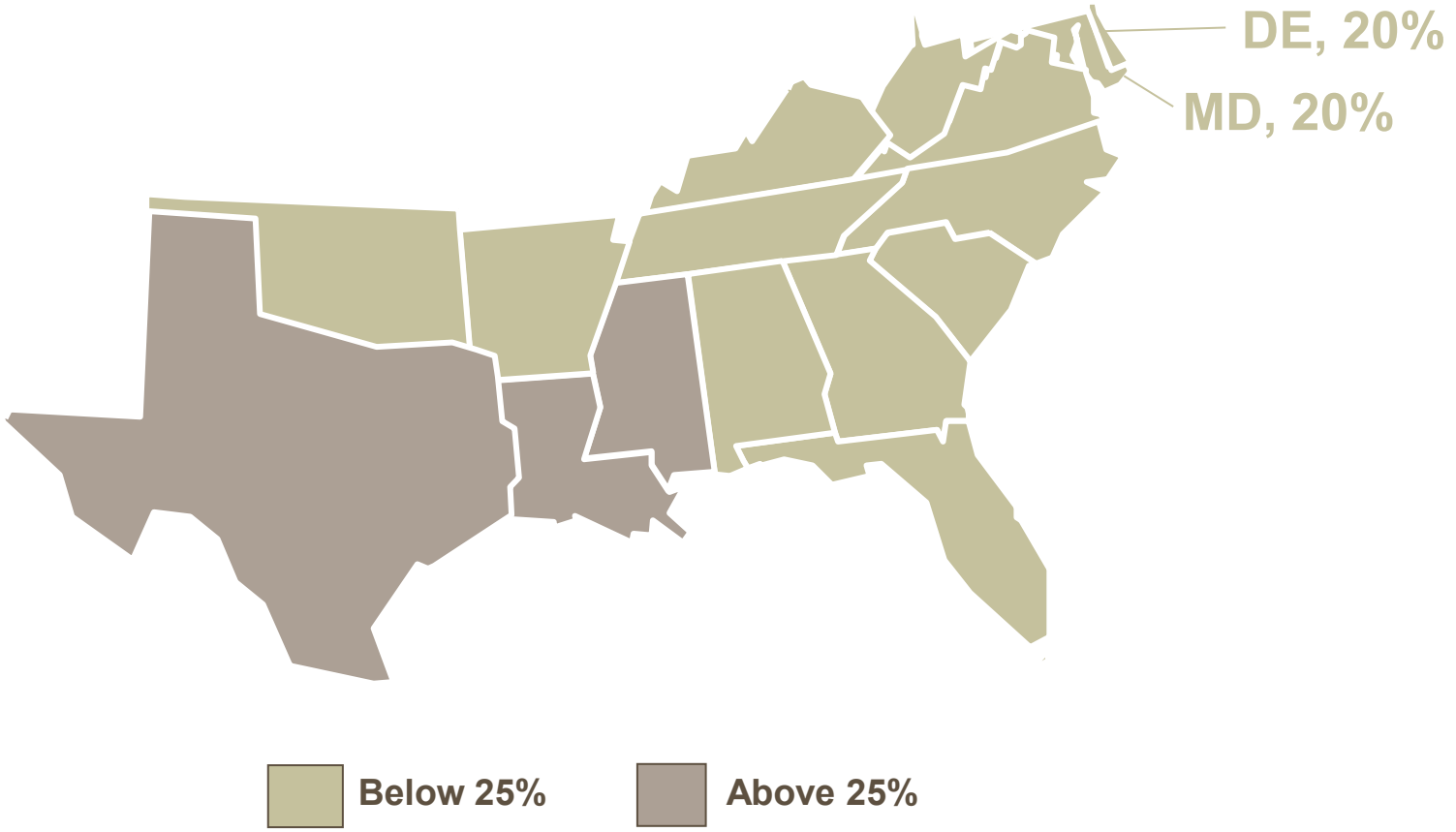
Stephen Pruitt, President, SREB

Jillian Balow, Chief Client Relations Officer, MetaMetrics, Inc.

Jonathan Rollins, Data Analysis and Research Coordinator, West Virginia Department of Education

75th Anniversary

Percentage of Adults in SREB States with Low Literacy Skills



SREB

75th Anniversary

Low Literacy Skills Among Adults

Approximately one out of every five U.S. adults (21%) have low literacy skills

43 million U.S. adults

Across the SREB states

LA, MS, and TX are among five states nationwide that have the lowest literacy rates in the U.S.

Median low literacy rate is 22.15% or

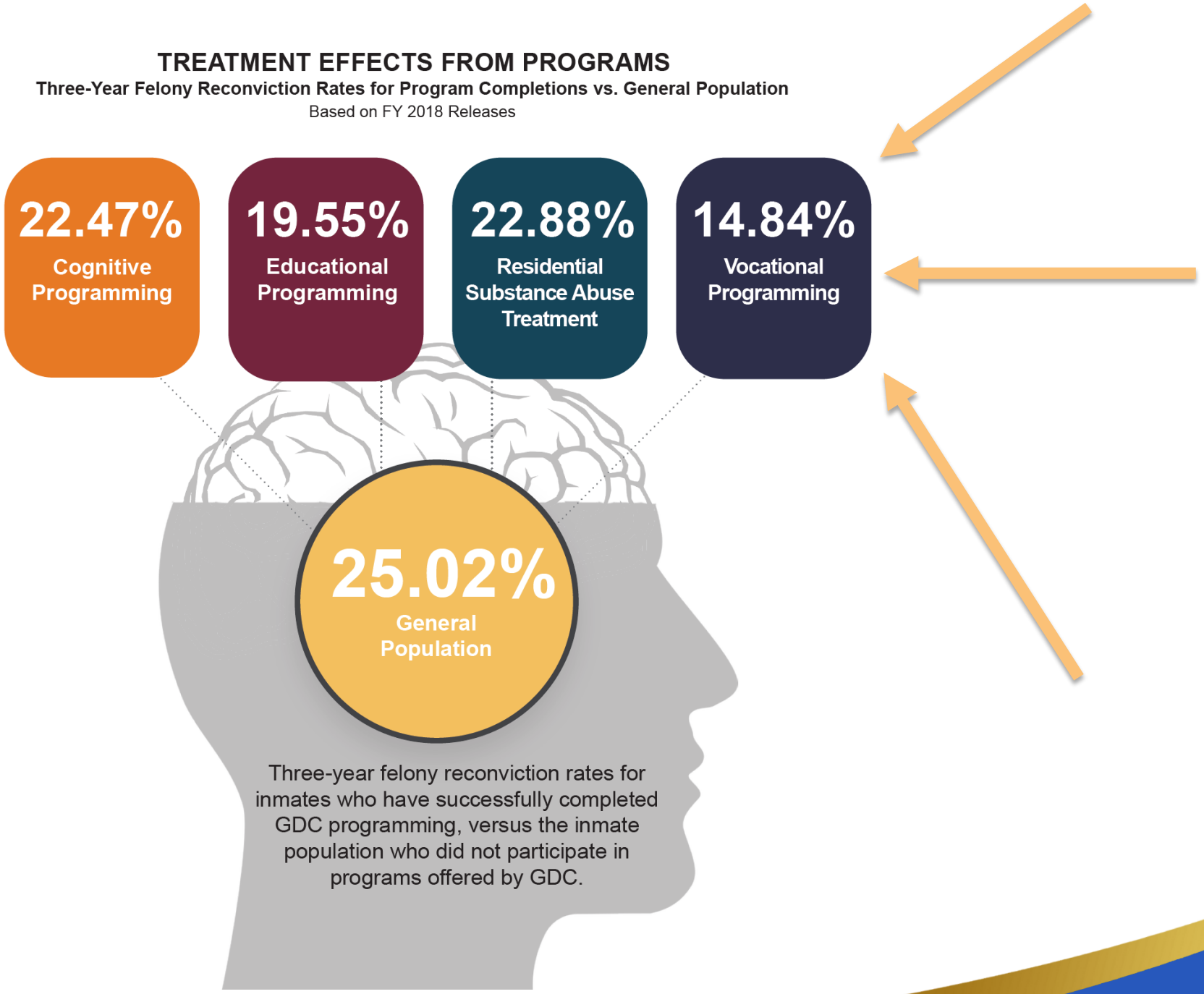
Approximately 23.7 million adults

Program Type	Of those who COMPLETED the program AVG 3-year Reconviction Rate 2009-2016 Releases	Of those who ENROLLED in the program but did not complete AVG 3-year Reconviction Rate 2009-2016 Releases
Post Secondary	**1%**	35%
Animal Programs	**2%**	26%
BRAILLE	**4%**	12%
Diesel Mechanics	**11%**	25%
Carpentry Woodworking	**13%**	23%
Horticulture	**14%**	21%
Welding	**14%**	24%
Plumbing	**14%**	22%
Computer Technology-Customer Service	**22%**	26%
ALL OJT COMBINED (Not limited to the specific programs listed above)	**16%**	21%

TREATMENT EFFECTS FROM PROGRAMS

Three-Year Felony Reconviction Rates for Program Completions vs. General Population

Based on FY 2018 Releases



Three-year felony reconviction rates for inmates who have successfully completed GDC programming, versus the inmate population who did not participate in programs offered by GDC.

SREB

75th Anniversary

West Virginia DEPARTMENT OF EDUCATION

MetaMetrics®

Career Preparedness Projections

Reading and Mathematics Demands of Careers

09/23/2023

Career Preparedness Study Overview

Goal: Analyze the West Virginia General Summative Assessment (WVGSA) performance of middle school students and project their anticipated preparedness for the entry-level reading and math demands for each of 33 careers.

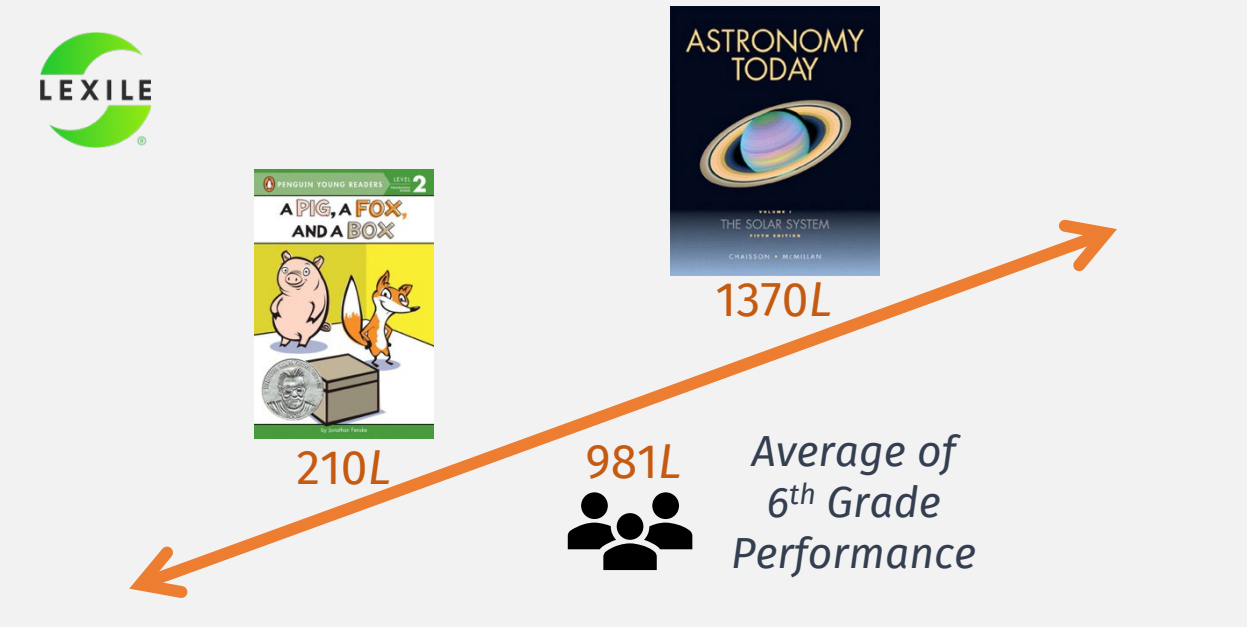
- Study conducted in partnership with MetaMetrics (the developer of the Lexile and Quantile scales).

- Data from the Spring 2022 WVGSA administration were used.

Lexile and Quantile Fundamentals

Lexile® Framework for Reading

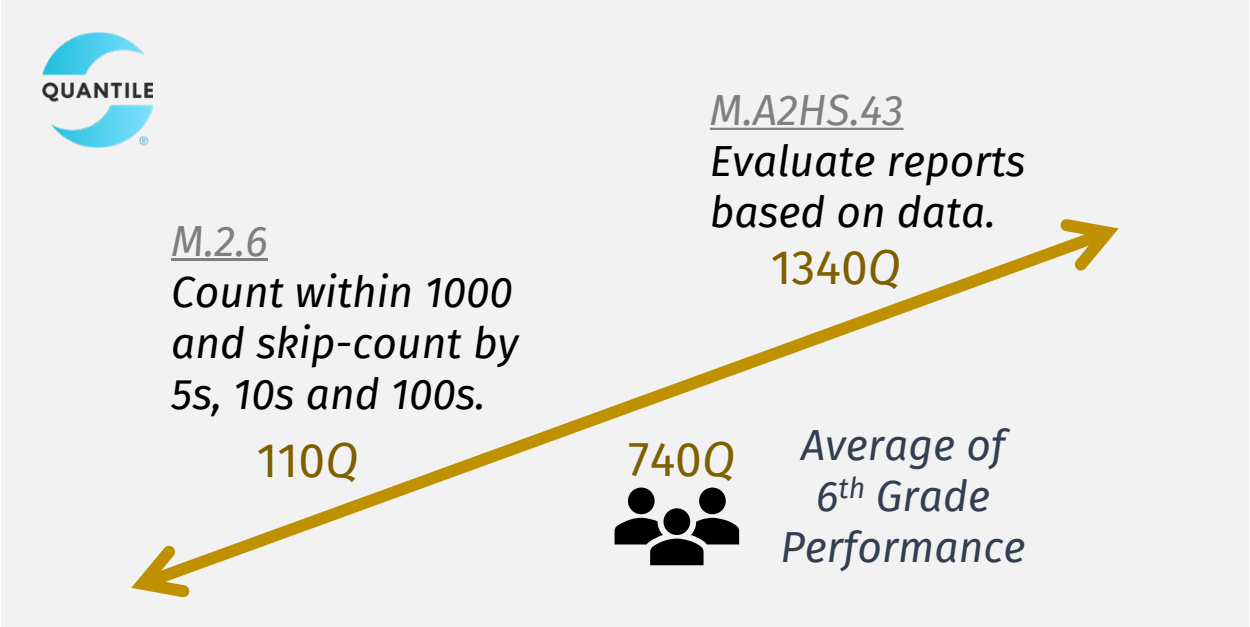
- Places text complexity and student comprehension level on the same scale.



Lexile and Quantile Fundamentals (cont.)

Quantile® Framework for Mathematics

- Places mathematical skills and concepts and student math performance on the same scale.



Lexile and Quantile Linkage to WVGSA

- The Lexile Framework has been linked with the West Virginia General Summative Assessment (WVGSA) for English Language Arts in Grades 3 – 8, and the Quantile Framework has been linked with the WVGSA for mathematics in Grades 3 – 8.

- As part of the WVGSA reports, students and their families receive a Lexile measure for ELA and a Quantile measure for mathematics.

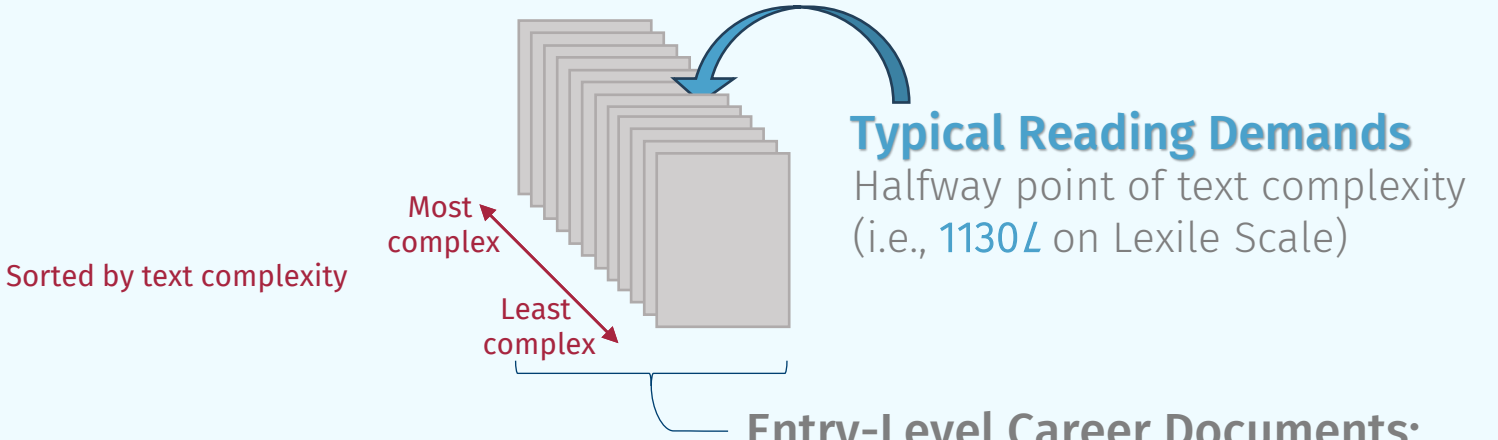
Example: 8th Grade Student

Subject Area	WVGSA Score	*Translates to*	Lexile/Quantile Measure
English Language Arts	656	→	1170*L*
Mathematics	587	→	1088*Q*

Entry-Level Reading and Math Demands

- Example:

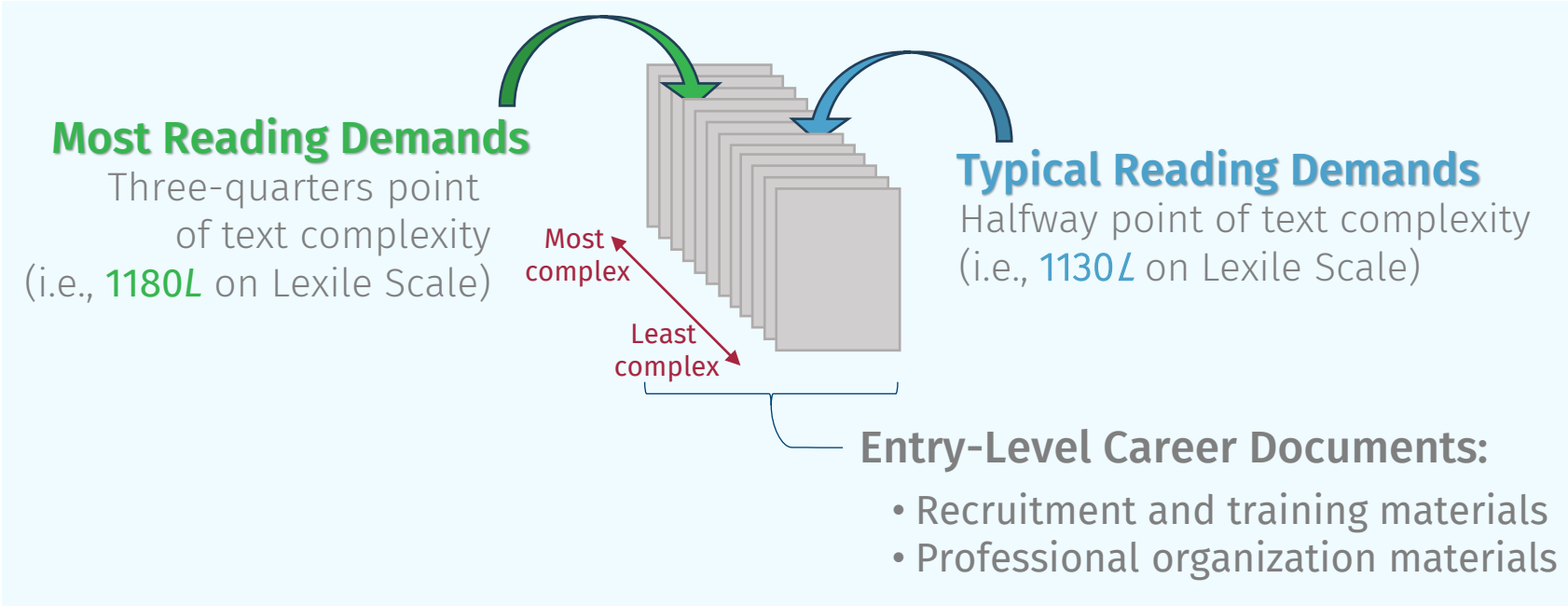
Industry:	Architecture & Construction
Career:	Carpenter



Entry-Level Reading and Math Demands

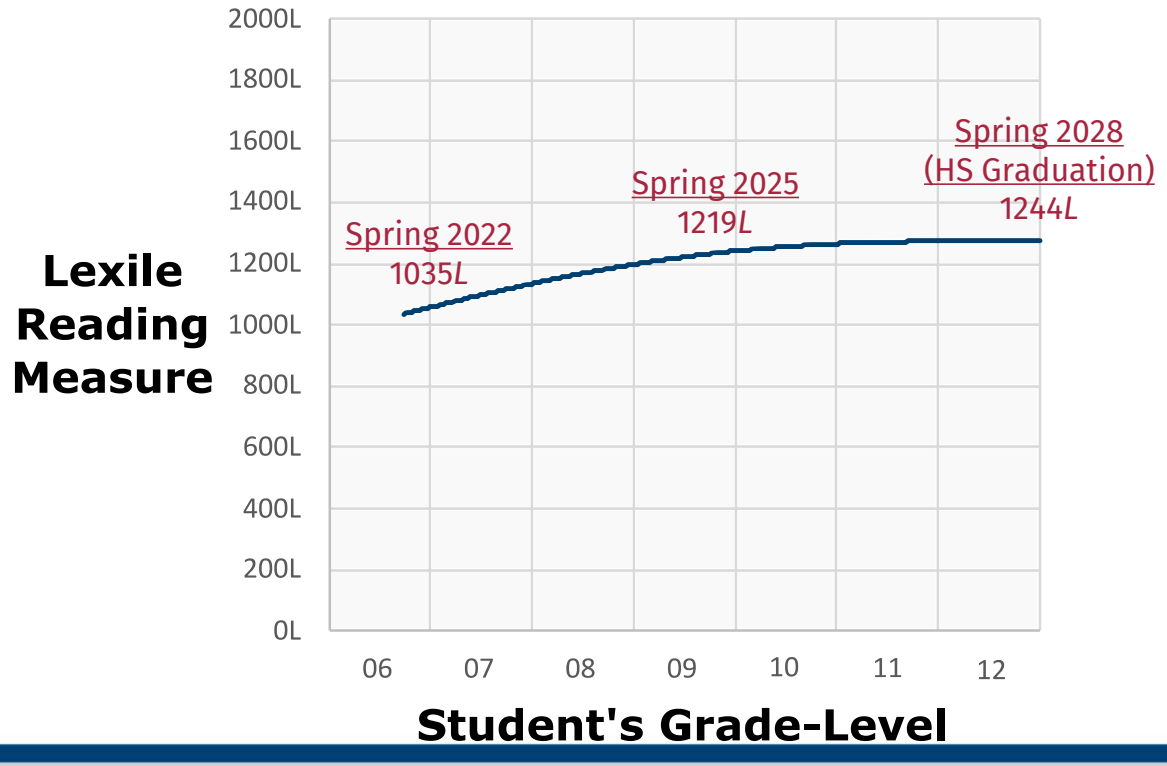
- Example:

Industry:	Architecture & Construction
Career:	Carpenter



Sample Lexile Growth Projection

- Assuming we have a student who received a 1035L in the 6th Grade on the ELA assessment of the WVGSA in Spring 2022:



Questions for Discussion (1 of 3)

- How does this approach look similar or different than other data that you use to guide and make policy decisions?

Benefits for Students and Schools

- Students may be encouraged to explore careers that they previously have not considered.
- Allows for discussion of middle school assessment results to focus on anticipated preparedness for the reading and math demands of specific careers.
- Allows for existing assessment data to be used without additional testing burden.
- The results are indicative that students may be more prepared for the reading and math demands of certain careers than what is reflected in WVGSA proficiency results.

Questions for Discussion (2 of 3)

- How would this information help different audiences?
  - Higher education
  - Employer and business community
  - Policy makers
  - State Departments of Education
  - School districts

Questions for Discussion (3 of 3)

- Why is it important to understand the reading and math demands of different careers?

- How can this type of data be used in conjunction with other career-related data points?

West Virginia DEPARTMENT OF EDUCATION

MetaMetrics®

Thank you!

09/23/2023