Lyndhurst Public Schools
Start Strong Fall 2022
&
LinkIt Benchmark Assessment Data

January 31, 2023
Dr. Alma Morel, Assistant Superintendent

Start Strong Assessment Overview

- Are based on a subset of prioritized prior-year academic standards.
- Are available in ELA grades 4-10, Mathematics grades 4-8, Algebra I, Geometry and Algebra II, and in Science grades 6, 9, and 12.
- Can be administered in approximately 45-60 minutes.
- Provide immediate results to educators through the assessment platform.

Start Strong Result Interpretation Considerations

- Start Strong assessments were not designed to predict or estimate a score a student will receive on the upcoming NJ Student Learning Assessment (NJSLA) taken in Spring 2023.

- The purpose of an analysis of this data is to understand the level of support that students require for **CURRENT** grade level support. Designed specifically to inform instruction going forward.

- The Start Strong test results must be interpreted and used differently than NJSLA results. They do not cover the breadth and depth of standards as seen on the NJSLA and do not support the same comparisons or inferences about student proficiency.

A student in this grade in fall 2022…	Took the English Language Arts Start Strong Assessment that was based on a sub-set of standards from this grade-level:
Grade 4	Grade 3
Grade 5	Grade 4
Grade 6	Grade 5
Grade 7	Grade 6
Grade 8	Grade 7
Grade 9	Grade 8
Grade 10	Grade 9

A student in this grade in fall 2022…	Took the Math Start Strong Assessment that was based on a sub-set of standards from this grade-level or course:
Grade 4	Grade 3
Grade 5	Grade 4
Grade 6	Grade 5
Grade 7	Grade 6
Grade 8	Grade 7
Algebra 1	Grade 8, specifically those standards relevant to algebraic concepts
Geometry	Grade 8, specifically those standards relevant to geometric concepts
Algebra 2	Algebra 1, specifically those standards relevant to algebra 2 concepts

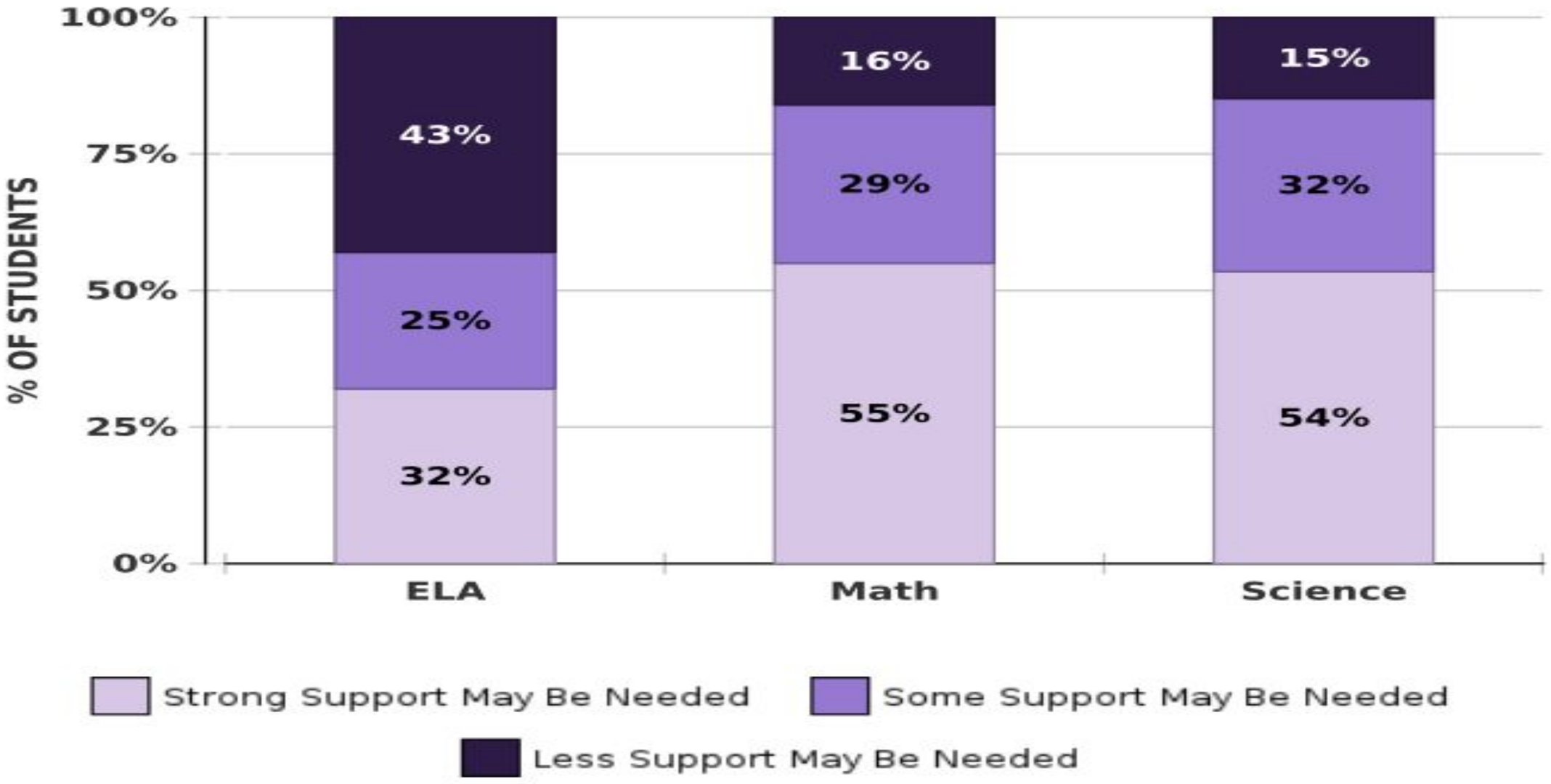
There are three support levels for the Start Strong Assessment

Level	Degree of Support
1	**Strong Support May Be Needed**
2	**Some Support May Be Needed**
3	**Less Support May Be Needed**

Participation Rates

English Language Arts	Participation Rate	Mathematics	Participation Rate	Science	Participation Rate
ELA04	97%	MAT04	96%		
ELA05	97%	MAT05	97%		
ELA06	99%	MAT06	100%	SCI 06	100%
ELA07	98%	MAT07	99%		
ELA08	97%	MAT08	96%		
ELA09	99%	Algebra I	100%	SCI 09	99%
		Geometry	100%		
				SCI 11	98%

Overall District Performance Start Strong Fall 2022



Grade	ELA	Math	Science
04	33% 25% 42%	38% 28% 33%	9 Students or Fewer
05	21% 24% 55%	53% 23% 24%	9 Students or Fewer
06	36% 31% 33%	64% 30% 6%	52% 31% 16%
07	38% 27% 35%	50% 27% 23%	9 Students or Fewer
08	33% 20% 47%	56% 39% 5%	9 Students or Fewer
09	34% 20% 45%	9 Students or Fewer	51% 41% 8%

Grade	ELA	Math	Science
10	26% 27% 47%	9 Students or Fewer	9 Students or Fewer
12	9 Students or Fewer	9 Students or Fewer	58% 22% 21%
A1 **Algebra I***	9 Students or Fewer	71% 20% 9%	9 Students or Fewer
A2 **Algebra II**	9 Students or Fewer	47% 40% 13%	9 Students or Fewer
G1 **Geometry**	9 Students or Fewer	54% 33% 13%	9 Students or Fewer

*** Algebra I score includes 8th graders and HS students**

Gender	ELA	Math	Science
Female	29% 24% 47%	56% 28% 15%	52% 33% 15%
Male	37% 25% 38%	53% 30% 16%	52% 40% 8%

Ethnicity	ELA	Math	Science
Asian	21% 15% 65%	32% 29% 39%	38% 8% 54%
Black / African American	37% 39% 24%	72% 19% 9%	75% 15% 10%
Hispanic or Latino	37% 27% 36%	59% 30% 12%	57% 34% 9%

Ethnicity	ELA	Math	Science
Native Hawaiian / Other Pacific Islander	9 Students or Fewer	9 Students or Fewer	9 Students or Fewer
White	30% 22% 49%	51% 30% 19%	47% 41% 12%
Two or More Races	36% 26% 38%	55% 27% 18%	40% 53% 7%

Students with Disabilities	ELA	Math	Science
IEP	61% 19% 19%	79% 14% 7%	77% 19% 4%
504	46% 25% 29%	67% 22% 11%	54% 43% 3%

English Language Learner	ELA	Math	Science
Current EL	73% 23% 5%	64% 25% 11%	73% 27% 0%
Former EL	26% 26% 49%	45% 39% 16%	18% 64% 18%

Other Demographics	ELA	Math	Science
Economically Disadvantaged	35% 31% 34%	62% 26% 11%	55% 37% 9%
Non-Economically Disadvantaged	32% 22% 46%	52% 30% 17%	51% 36% 13%
Migrant	9 Students or Fewer	9 Students or Fewer	9 Students or Fewer

Data Analysis Takeaways

Data Analysis Takeaways

- ELA is an area of strength. It is positive to see former ESL students are performing well in ELA.
- Math and Science in all grades and subgroups are areas of focus.
- Continue to work on addressing the achievement gap amongst subgroup student performance.
- Math scores in grades 6 & 8 are significantly lower than other grade Math scores.

INTERVENTION STRATEGIES ALIGNED TO DATA ANALYSIS

INTERVENTION STRATEGIES

- Ensure special education teachers are included and supported with grade level curriculum PD, to help them modify and accommodate the learning for our students to meet grade level standards.

- Consistent, relevant, job-embedded PD to support K-3 ELA and Math curricular initiatives
  - Reader's Workshop (Reading program)
  - Fundations (Phonics Instruction)
  - Math Expressions and Calendar Math

- Implement consistent K-3 ELA early literacy screeners and diagnostic assessments to identify student needs.

INTERVENTION STRATEGIES

- Implementation of Document Based Questions (DBQ) 6-12 in Social Studies classes which helps to develop and improve students' critical thinking skills reading non-fiction text, research and writing skills.

- Continued use of LinkIt assessments, and review data as part of cyclical review process to guide instruction and identify student needs in ELA (3-12) and Math (K-12).

- Targeted Math PD for teachers to improve their content knowledge and instructional practices.

INTERVENTION STRATEGIES

- Use federal funds to provide extended day learning programs for students struggling academically.
- Use of federal funds to provide basic skills instruction.
- Address chronic absenteeism K-12
- Math family nights
- ESL family nights

LinkIt Benchmark Assessments

Lyndhurst School District
Strategic Goals 22-23 school year

Goal #1
Increase student achievement by creating engaging learning environments that successfully balance curriculum, expectations, and instruction to prepare students for career and college opportunities.

Objectives:
Increase awareness of preparation for post-secondary options (college, trade schools, military, workforce).

Provide ongoing opportunities for professional growth for all staff to ensure high-quality teaching and learning for all students.

Strengthen the mathematical skills and competencies of learners at all levels to make certain that they are achieving at or above grade level.

Monitor a system of standardized (NJSLA, SAT, ACCESS, AP) and local assessments (LinkIt, DIBELS 8, etc.) that will inform our decisions regarding student learning and professional development to improve student growth on these measures.

LinkIt Overview

- LinkIt! Benchmark Assessments gauge students' progress on select NJ Student Learning Standards (NJSLS)
  - Administered to students in Grades K through 12 for Math, and Grades 3-12 for ELA
  - Administered three times throughout the school year

- Provides immediate feedback and up-to-date student progress on reaching end-of-year expectations on select NJSLS.

- Utilized as one of multiple measures to determine individual student growth and to inform teaching and learning.

- 22-23 school year is our second year of implementing the LinkIt benchmark assessments

LinkIt Overview

- LinkIt! Benchmark Assessments helps us determine student progress on specific topics, standards, and skills for the grade level or course

- Form A, B, and C all measure the same end-of-year standards
  - Form A - Fall (diagnostic- identify trends in what students already know)
  - Form B - Winter (formative-progress monitor for growth)
  - Form C - Spring (summative- measure end of year mastery of standards)

Quartile Bands for K-2 *LinkIt* Benchmark Assessments

Quartiles are determined based on percentile. Percentiles indicate the percentage of scores that fall below a particular value. For example, if you are in the 75th percentile, then you scored better than 75% of the other scores within a defined population.

	Grade	Form	4th Quartile	3rd Quartile	2nd Quartile	1st Quartile
GK ELA	K	B	< 59%	59% - 75%	76% - 85%	86% +
GK ELA	K	C	< 78%	78% - 88%	89% - 96%	97% +
G1 ELA	1	A	< 30%	30% - 40%	41% - 51%	52% +
G1 ELA	1	B	< 37%	37% - 51%	52% - 69%	70% +
G1 ELA	1	C	< 59%	59 - 77%	78% - 88%	89% +
GK Math	K	B	< 60%	60% - 72%	73% - 86%	87% +
GK Math	K	C	< 77%	77% - 89%	90% - 96%	97% +
G1 Math	1	A	< 37%	37% - 44%	45% - 56%	57% +
G1 Math	1	B	< 57%	57% - 69%	70% - 79%	80% +
G1 Math	1	C	< 73%	73% - 82%	83% - 92%	93% +

Quartiles are determined based on percentile (1st Quartile = 75th Percentile and Up, 2nd Quartile = 50th - 74th Percentile, 3rd Quartile = 25th - 49th Percentile, 4th Quartile = Below 25th Percentile)

LinkIt! Benchmark Assessment Scores

- For grades 3 to HS, there are 6 achievement levels; 5 are the same as NJSLA:
  - Exceeding
  - Meeting
  - Bubble (LinkIt! Only- at the bottom 10% of meeting)
  - Approaching
  - Partially Meeting
  - Not Meeting

- Each level is correlated to be <u>predictive</u> of students' actual performance on the state assessment (NJSLA).

Understanding and Interpretation of LinkIt Data

- It is critical to remember the purpose of each assessment, and what it is measuring when the assessment is given.
- The fall and winter benchmarks are measuring students abilities based on grade level standards that they have **NOT** been taught yet.
- By the spring benchmark, we see a more realistic perspective on where a student is as it relates to grade level standards.
- In addition, each assessment is broken down into standards and skills, and those are used by teachers to identify student strengths and opportunities for growth. Often, these subscores are more valuable than the overall score.

How Teachers Use LinkIt! Benchmarks Assessments

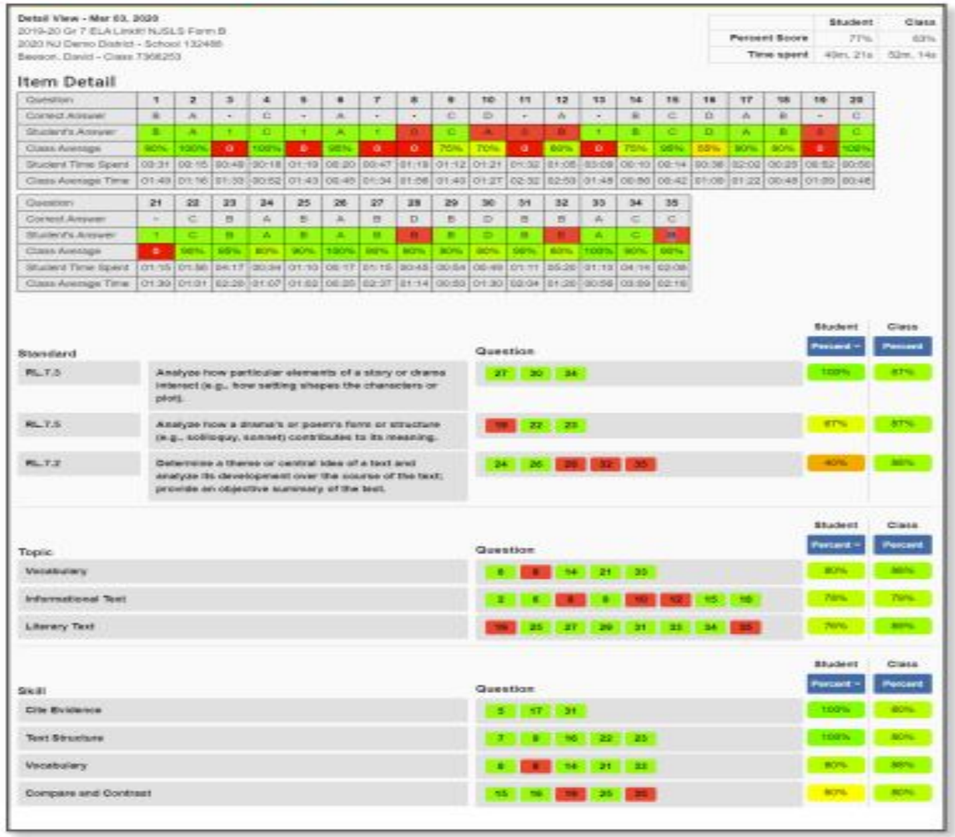
- Benchmarking results, combined with other information about your child's academic performance, help inform individual goal setting, strategic differentiation, and measurement of growth.

- Results are available immediately - organized by standards, skills, rigor and question types and analyzed at individual, group, class, grade, or district level.

- Trends in results inform:
  - whole group, small group, or individual instruction
  - pacing, curriculum, and professional development

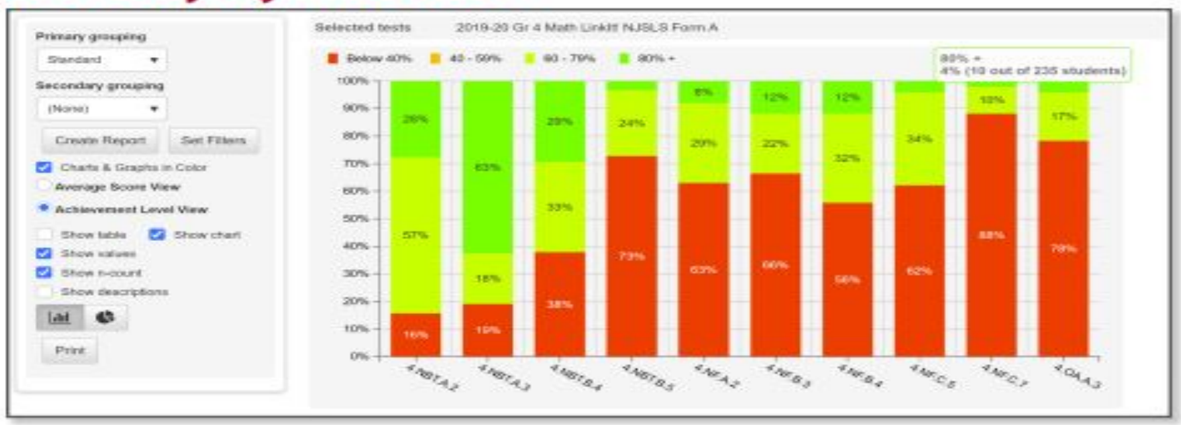
Student History

Item Analysis



Class Diagnostic by Standard

Mastery by Standard



Form A to B Comparison
K-3 Math

	Form A Average Score	Form B Average Score	Student Growth from Form A to Form B
Kindergarten	47.3%	68.8%	159/179 = 89%
Grade 1	48.3%	65.3%	142/172 = 83%
Grade 2	40.8%	57.4%	123/144 = 85%
Grade 3	30%	49.4%	152/164 = 93%

2022-23 Gr K Math LinkIt! NJSLS Form A

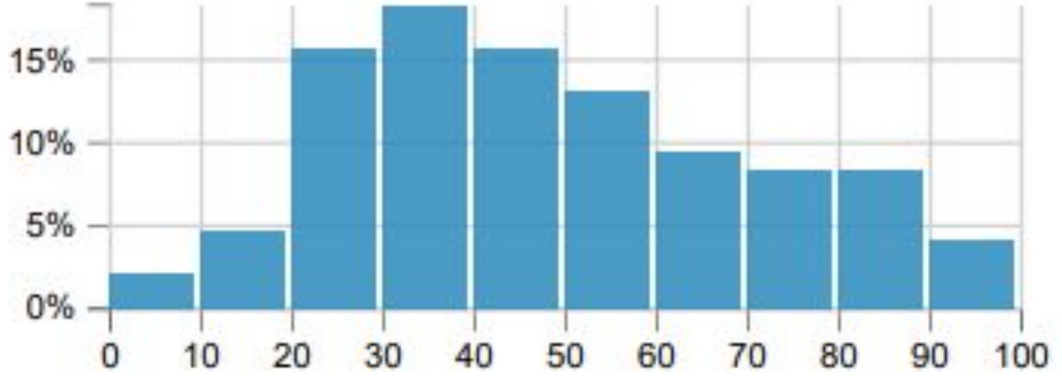
Number of results: 191

Average Score 47.3%

Achievement

4th Quartile	3rd Quartile	2nd Quartile	1st Quartile
29%	31%	19%	21%

Score distribution: (% of students in each band)



2022-23 Gr K Math LinkIt! NJSLS Form B

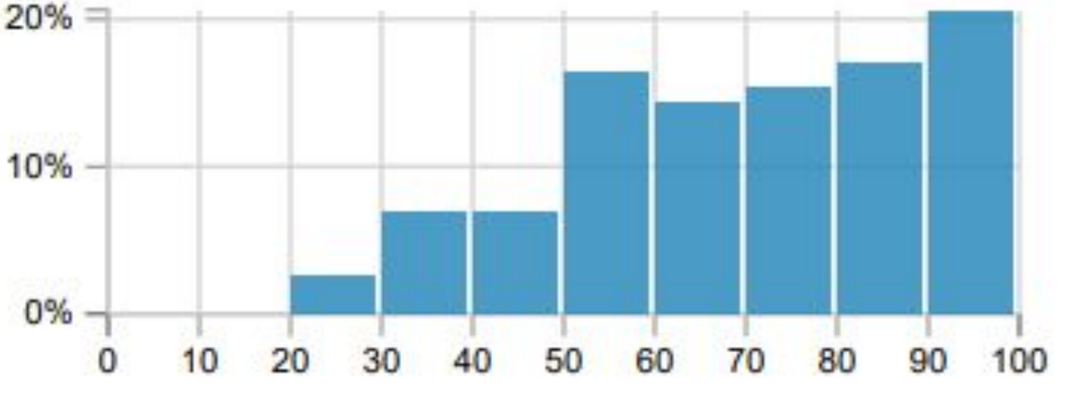
Number of results: 189

Average Score 68.8%

Achievement

4th Quartile	3rd Quartile	2nd Quartile	1st Quartile
33%	21%	26%	21%

Score distribution: (% of students in each band)



2022-23 Gr 1 Math LinkIt! NJSLS Form A

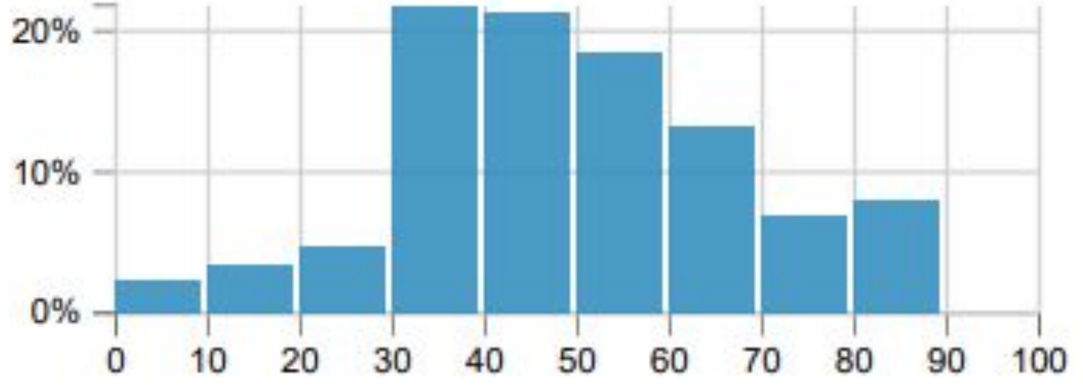
Number of results: 174

Average Score 48.3%

Achievement

4th Quartile	3rd Quartile	2nd Quartile	1st Quartile
32%	21%	21%	25%

Score distribution: (% of students in each band)



2022-23 Gr 1 Math LinkIt! NJSLS Form B

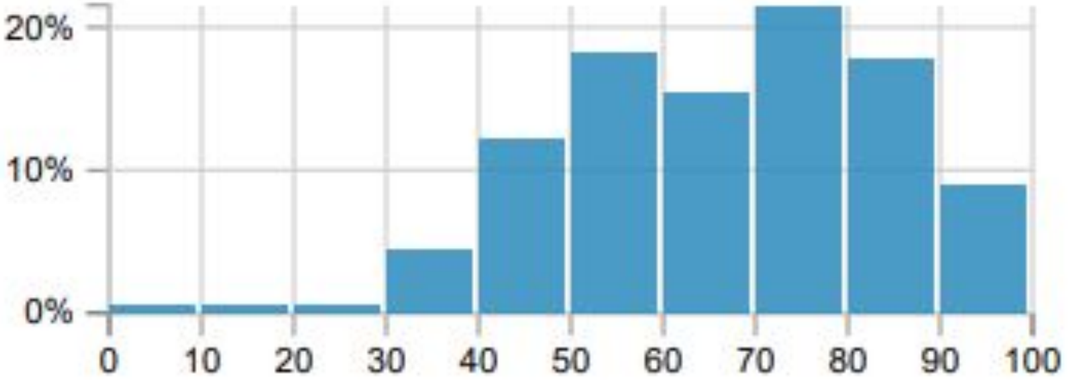
Number of results: 181

Average Score 65.3%

Achievement

4th Quartile	3rd Quartile	2nd Quartile	1st Quartile
21%	31%	29%	19%

Score distribution: (% of students in each band)

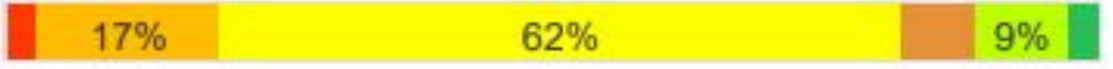


2022-23 Gr 2 Math LinkIt! NJSLS Form A

Number of results: 148

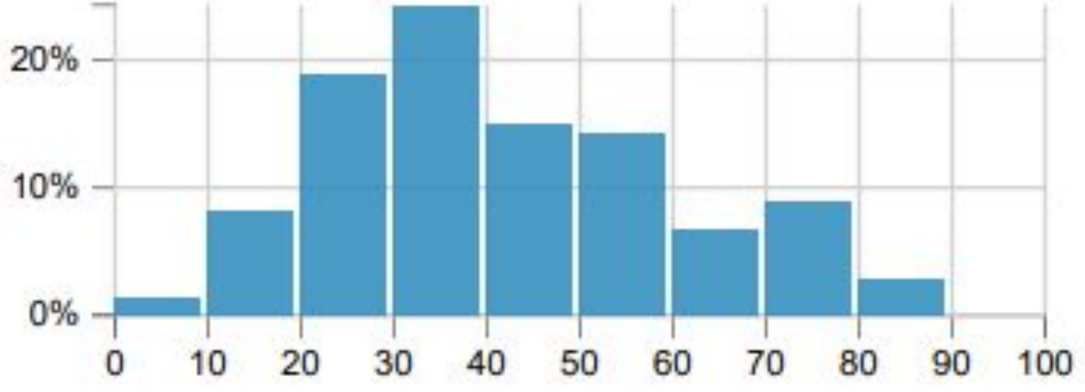
Average Score 40.8%

Achievement



Not Meeting Partially Meeting Approaching
Bubble Meeting Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 2 Math LinkIt! NJSLS Form B

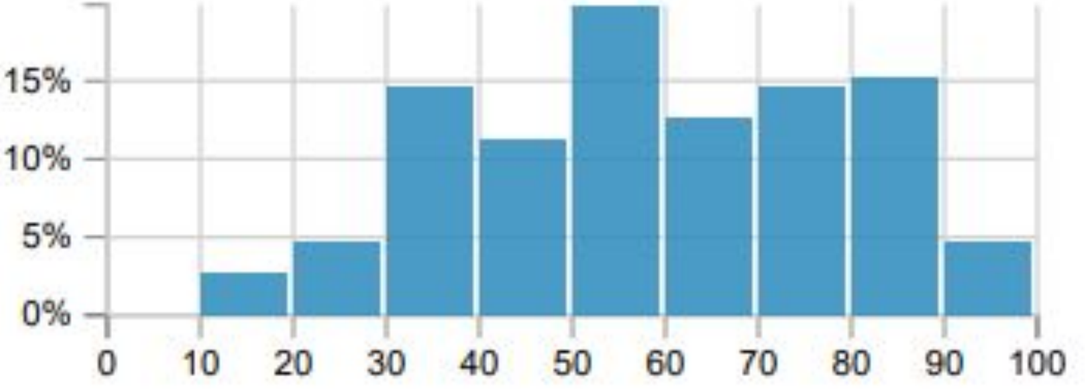
Number of results: 151

Average Score 57.4%

Achievement

Not Meeting Partially Meeting Approaching
Bubble Meeting Exceeding

Score distribution: (% of students in each band)

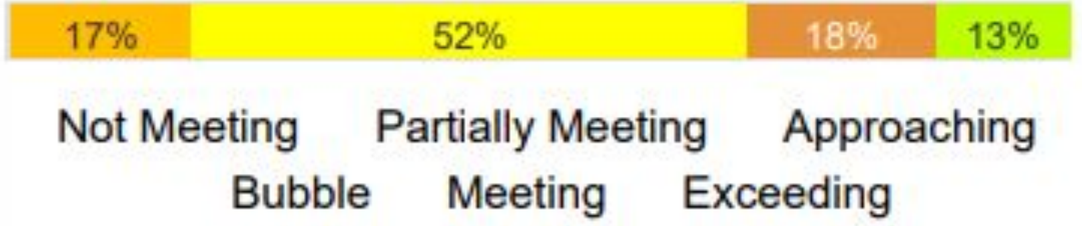


2022-23 Gr 3 Math LinkIt! NJSLS Form A

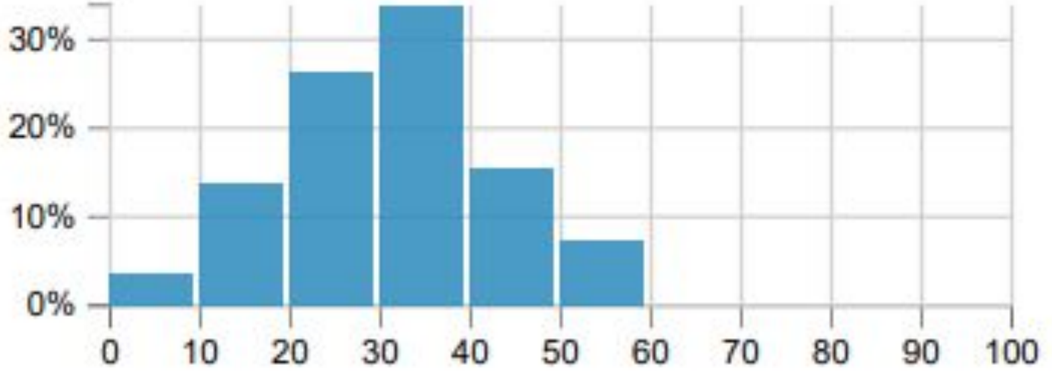
Number of results: 168

Average Score 30.0%

Achievement



Score distribution: (% of students in each band)

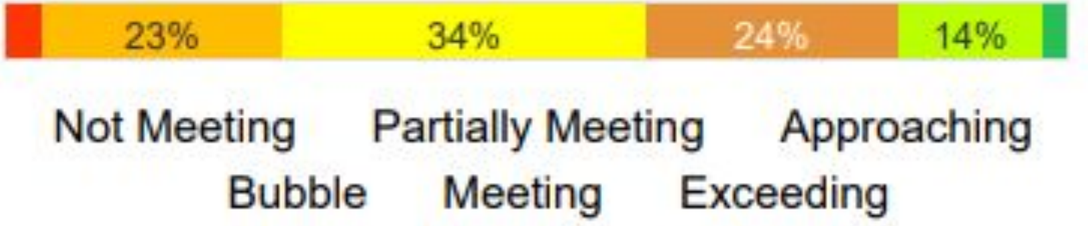


2022-23 Gr 3 Math LinkIt! NJSLS Form B

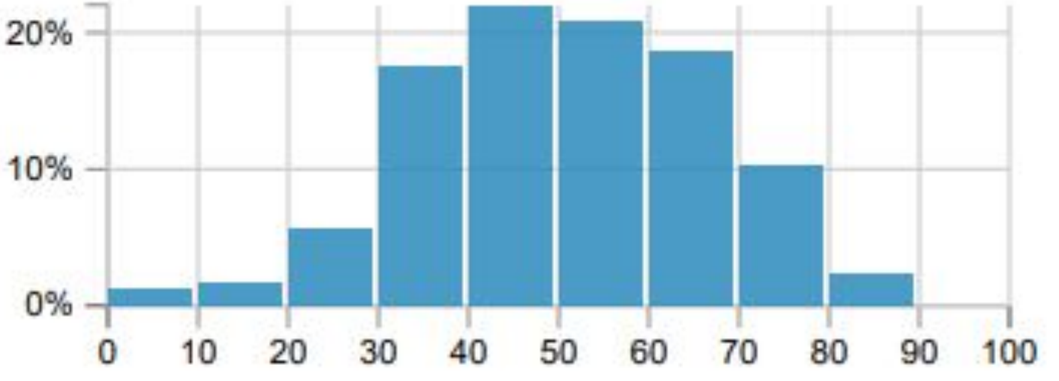
Number of results: 177

Average Score 49.4%

Achievement



Score distribution: (% of students in each band)



Form A to B Comparison
3 and 6-8 ELA

	Form A Average Score	Form B Average Score	Student Growth from Form A to Form B
Grade 3	33.8%	40.8%	123/165 = 75%
Grade 6	43.6%	43.9%	107/190 = 56%
Grade 7	45.4%	44.2%	98/216 = 45%
Grade 8	47.2%	52.9%	97/156 = 62%

2022-23 Gr 3 ELA LinkIt! NJSLS Form A

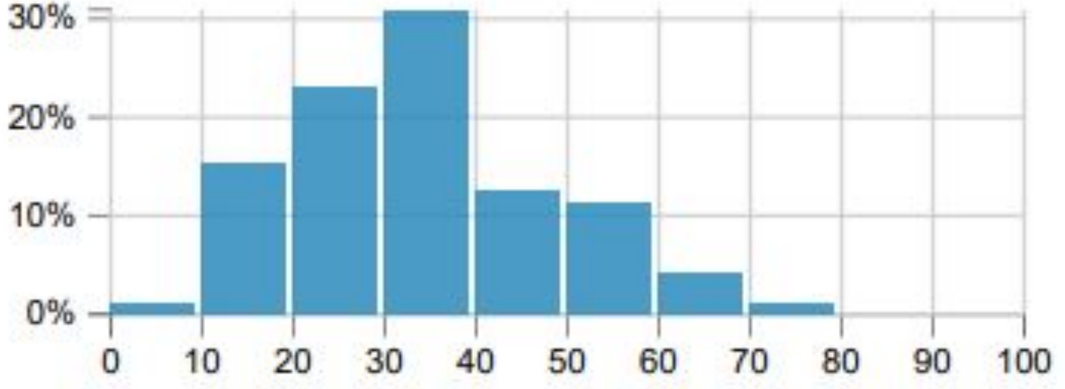
Number of results: 168

Average Score 33.8%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)

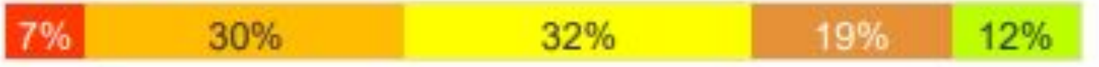


2022-23 Gr 3 ELA LinkIt! NJSLS Form B

Number of results: 177

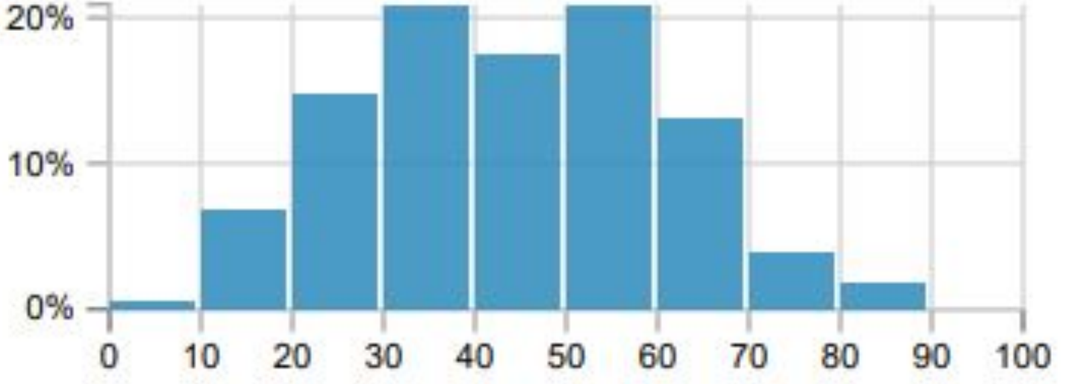
Average Score 43.8%

Achievement



Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 6 ELA LinkIt! NJSLS Form A

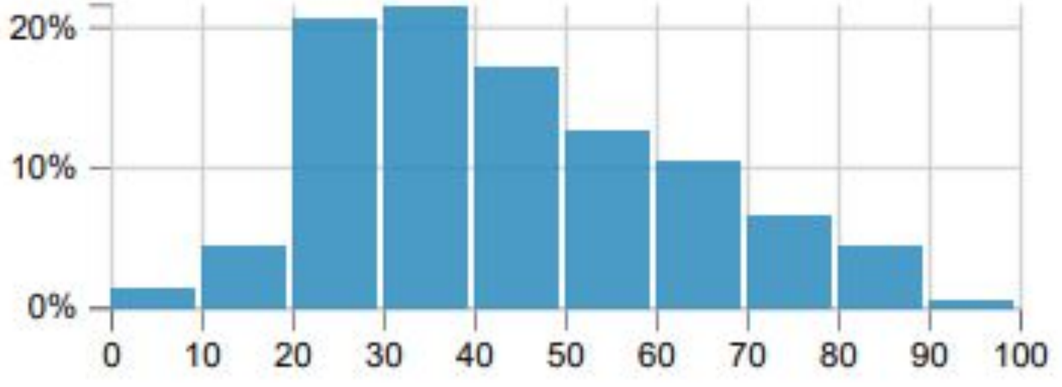
Number of results: 199

Average Score 43.6%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)

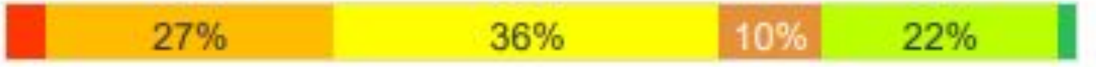


2022-23 Gr 6 ELA LinkIt! NJSLS Form B

Number of results: 195

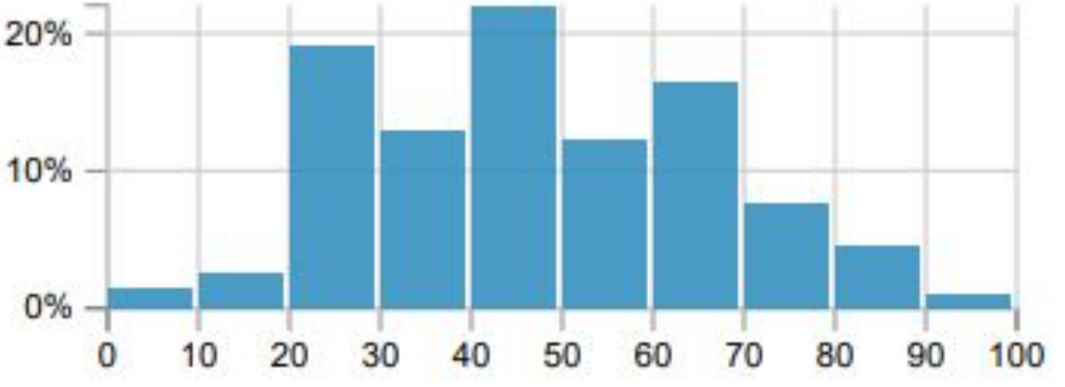
Average Score 46.9%

Achievement



Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)

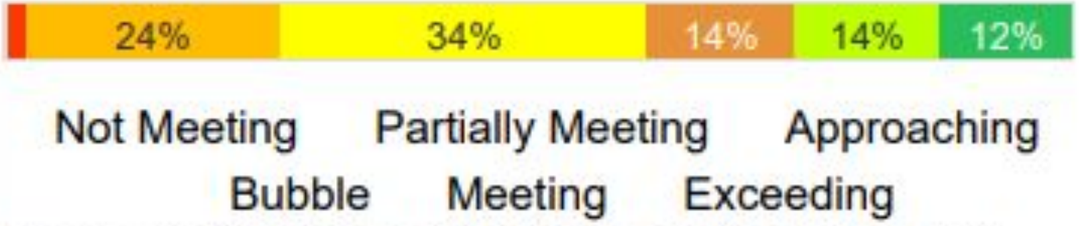


2022-23 Gr 7 ELA LinkIt! NJSLS Form A

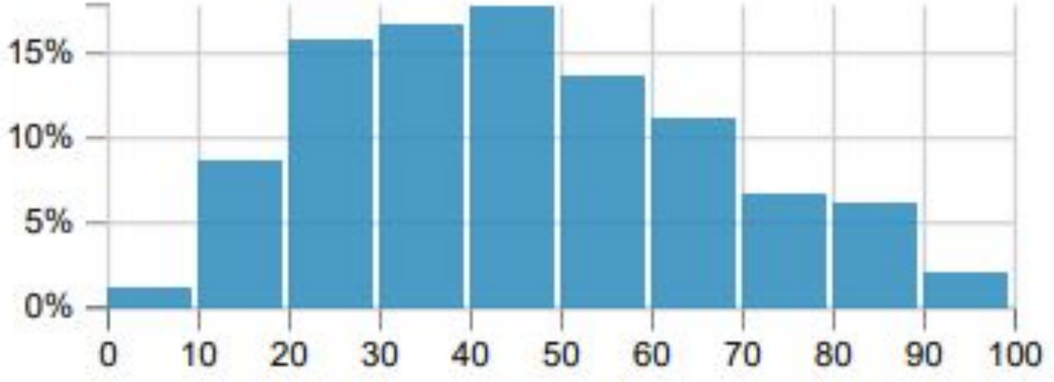
Number of results: 241

Average Score 45.4%

Achievement



Score distribution: (% of students in each band)

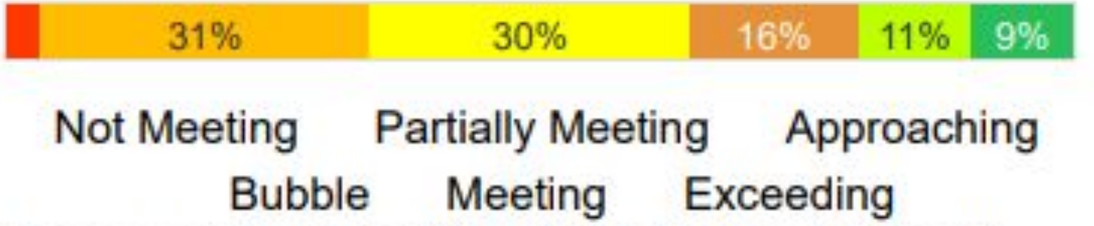


2022-23 Gr 7 ELA LinkIt! NJSLS Form B

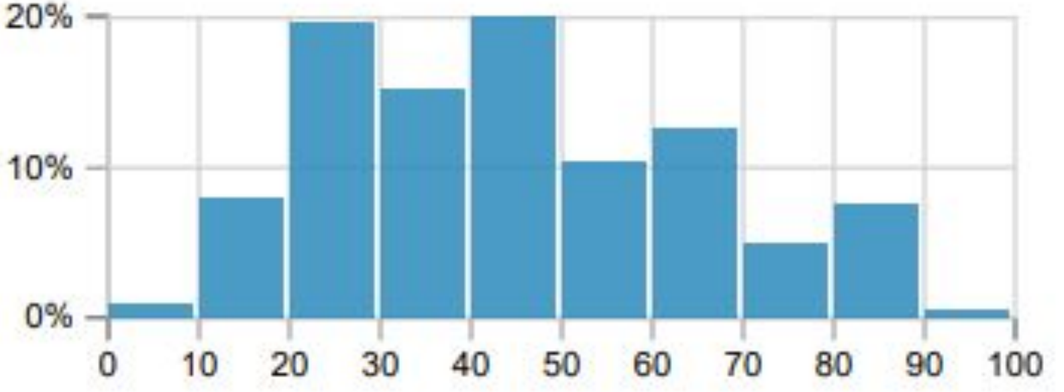
Number of results: 223

Average Score 44.2%

Achievement



Score distribution: (% of students in each band)



2022-23 Gr 8 ELA LinkIt! NJSLS Form A

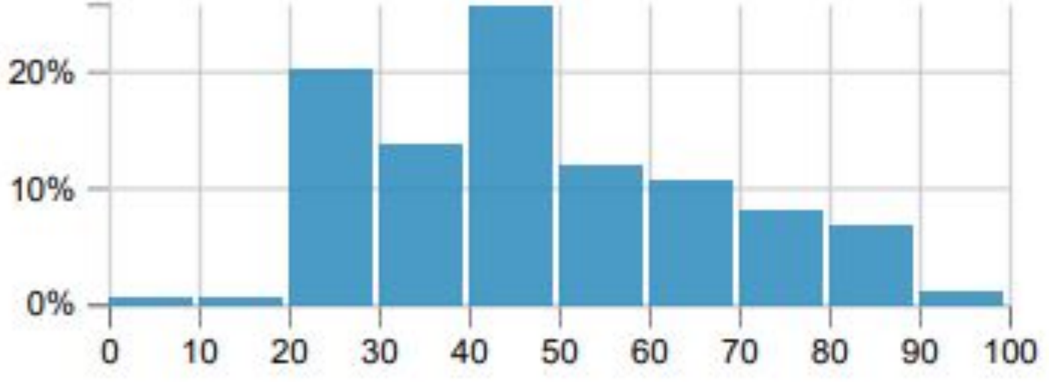
Number of results: 159

Average Score 47.2%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 8 ELA LinkIt! NJSLS Form B

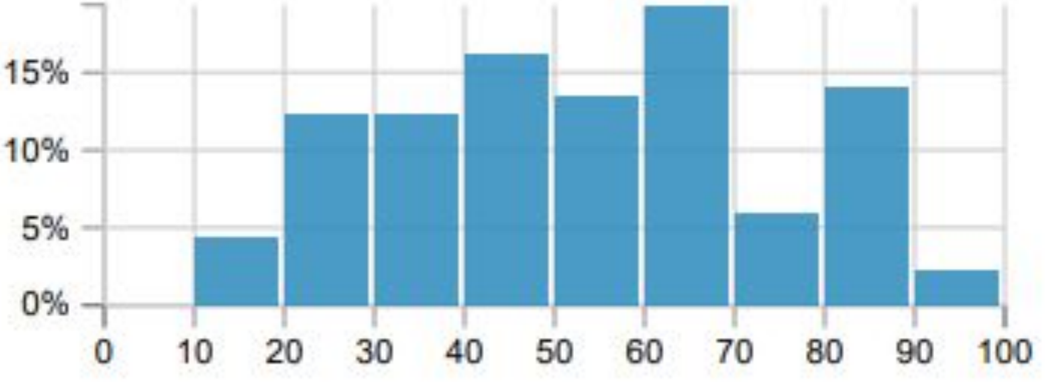
Number of results: 186

Average Score 52.9%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



Form A to B Comparison
6-8 Math

	Form A Average Score	Form B Average Score	Student Growth from Form A to Form B
Grade 6	34%	41%	129/190 = 68%
Grade 7	39.5%	42.8%	121/214 = 57%
Grade 8	25.6%	30.3%	77/127 = 61%

2022-23 Gr 6 Math LinkIt! NJSLS Form A

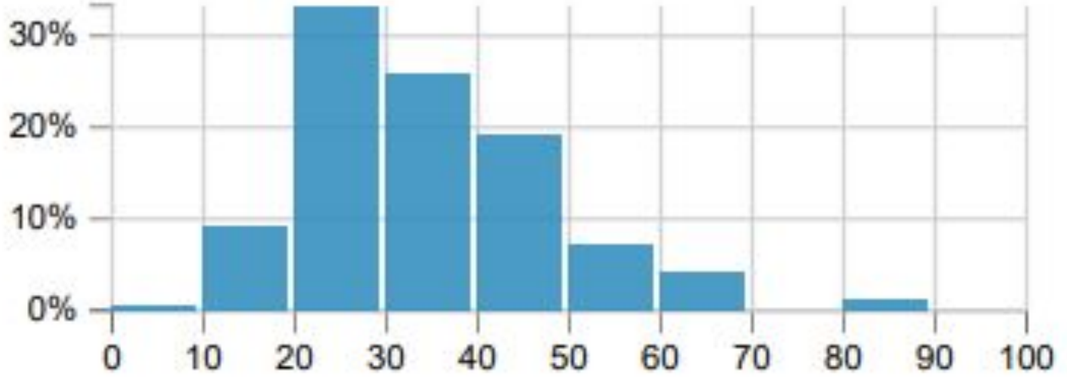
Number of results: 198

Average Score 34.0%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 6 Math LinkIt! NJSLS Form B

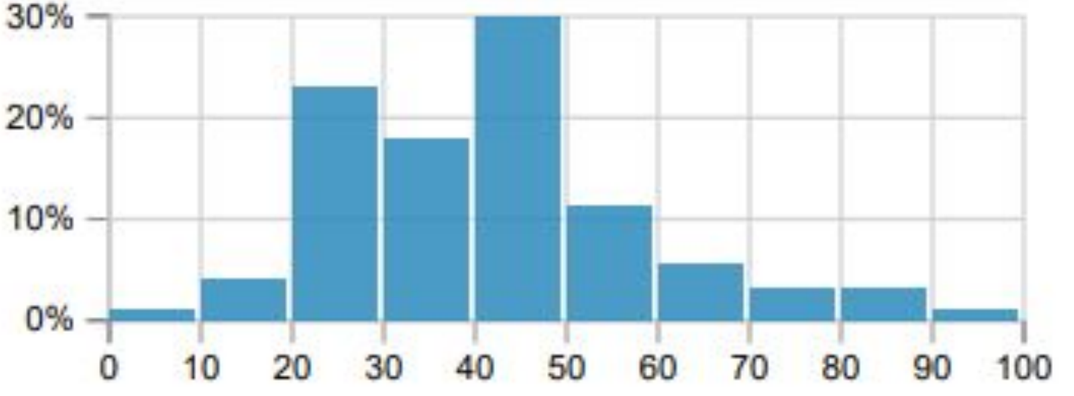
Number of results: 196

Average Score 41.0%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 7 Math LinkIt! NJSLS Form A

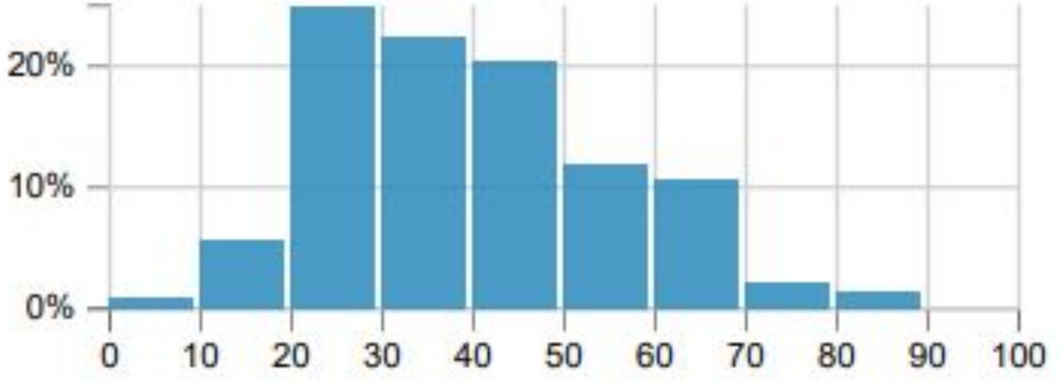
Number of results: 236

Average Score 39.5%

Achievement

Not Meeting Bubble | Partially Meeting Meeting | Approaching Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 7 Math LinkIt! NJSLS Form B

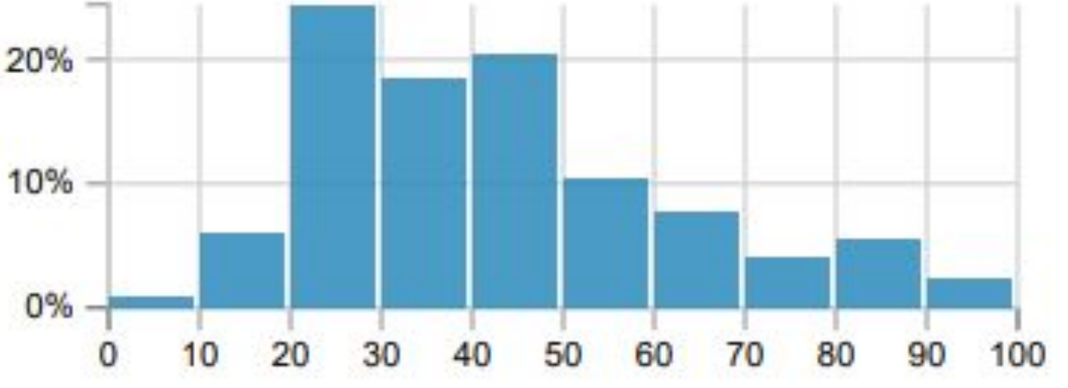
Number of results: 221

Average Score 42.8%

Achievement

Not Meeting Bubble | Partially Meeting Meeting | Approaching Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 8 Math LinkIt! NJSLS Form A

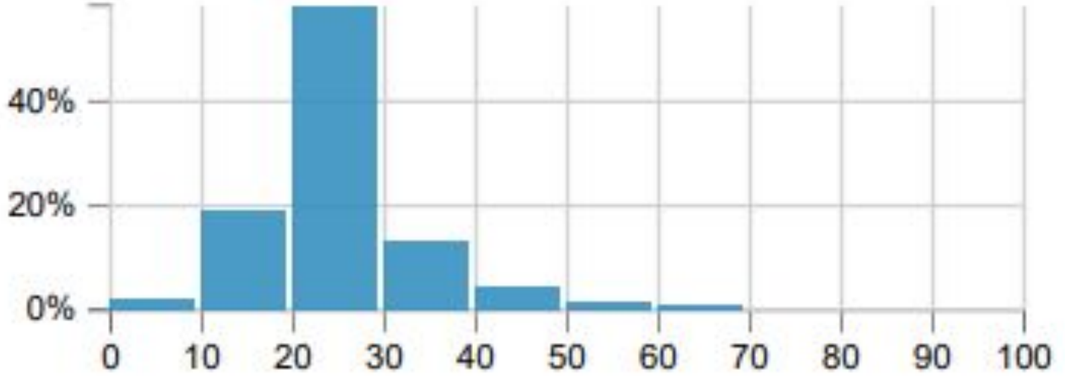
Number of results: 135

Average Score 25.6%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



2022-23 Gr 8 Math LinkIt! NJSLS Form B

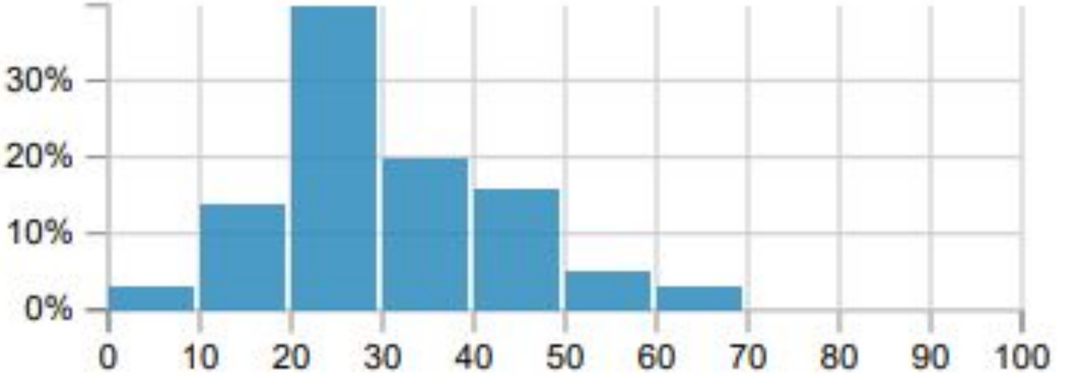
Number of results: 138

Average Score 30.3%

Achievement

Not Meeting Bubble | Partially Meeting | Approaching Meeting | Exceeding

Score distribution: (% of students in each band)



Thank you!