

# District Data Review - Spring 2022

Prepared for the School Committee

9/7/2022

Vy Vu, Director of Data & Analytics

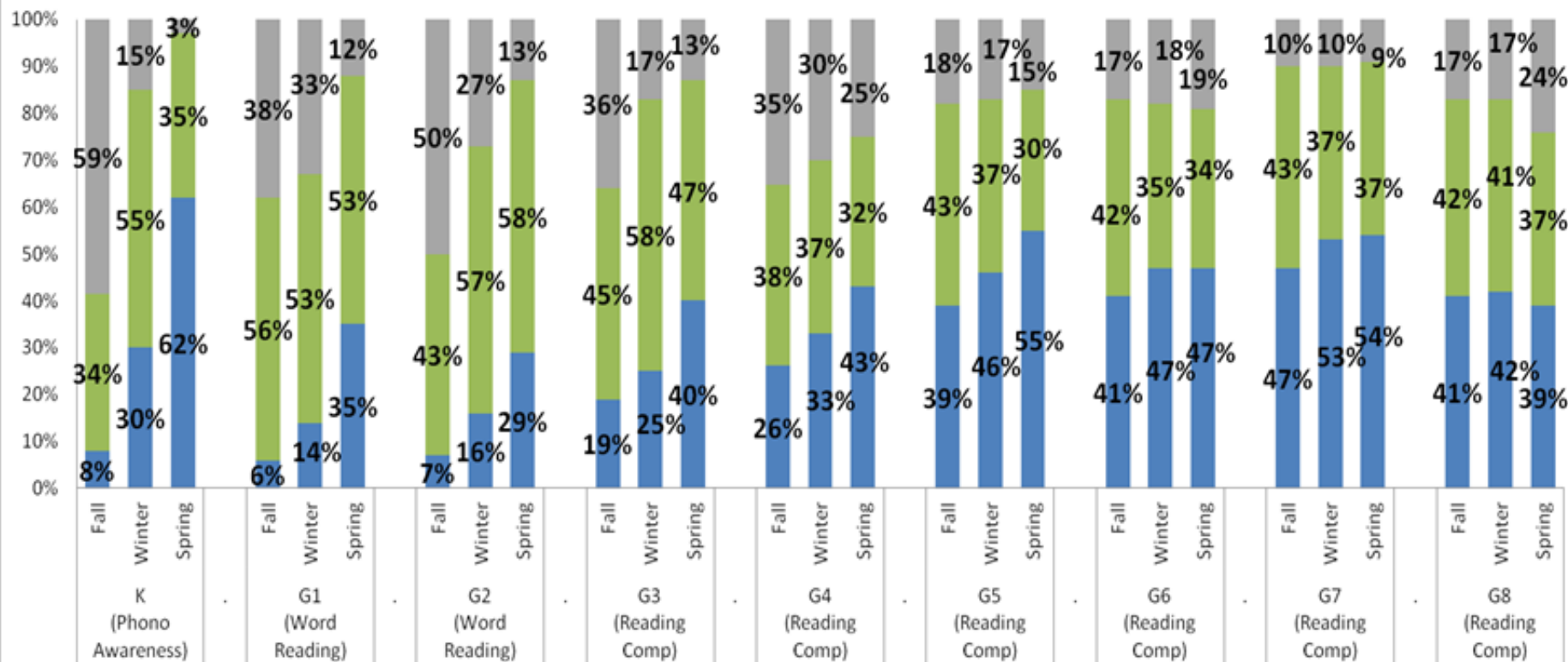
# Data Context

- Please be advised that the data presented here is only a “**snapshot in time**” of where our students are at the time the assessments were administered. It is meant to give us an overall look of how our students performed, so we can look for trends and patterns in the data and adjust our instructional programs accordingly.
- The Lexia Rapid ELA assessment is a computer-adaptive, norm-referenced diagnostic evaluation of students’ foundational skills in key reading and language domains. Although it helps teachers to evaluate students’ strengths and gaps in literacy skills, it does not necessarily align with performance on the MCAS, which is a standards-based assessment of the Massachusetts Curriculum Frameworks.
- MPS implemented the iReady Math computer-adaptive, diagnostic assessment in Winter 2020-21 to help us capture how students are learning during the pandemic. iReady has been found to have high correlations with MCAS performance, at least pre-pandemic. We will continue to use this math diagnostic and evaluate its effectiveness for our needs.

Lexia Rapid, ELA

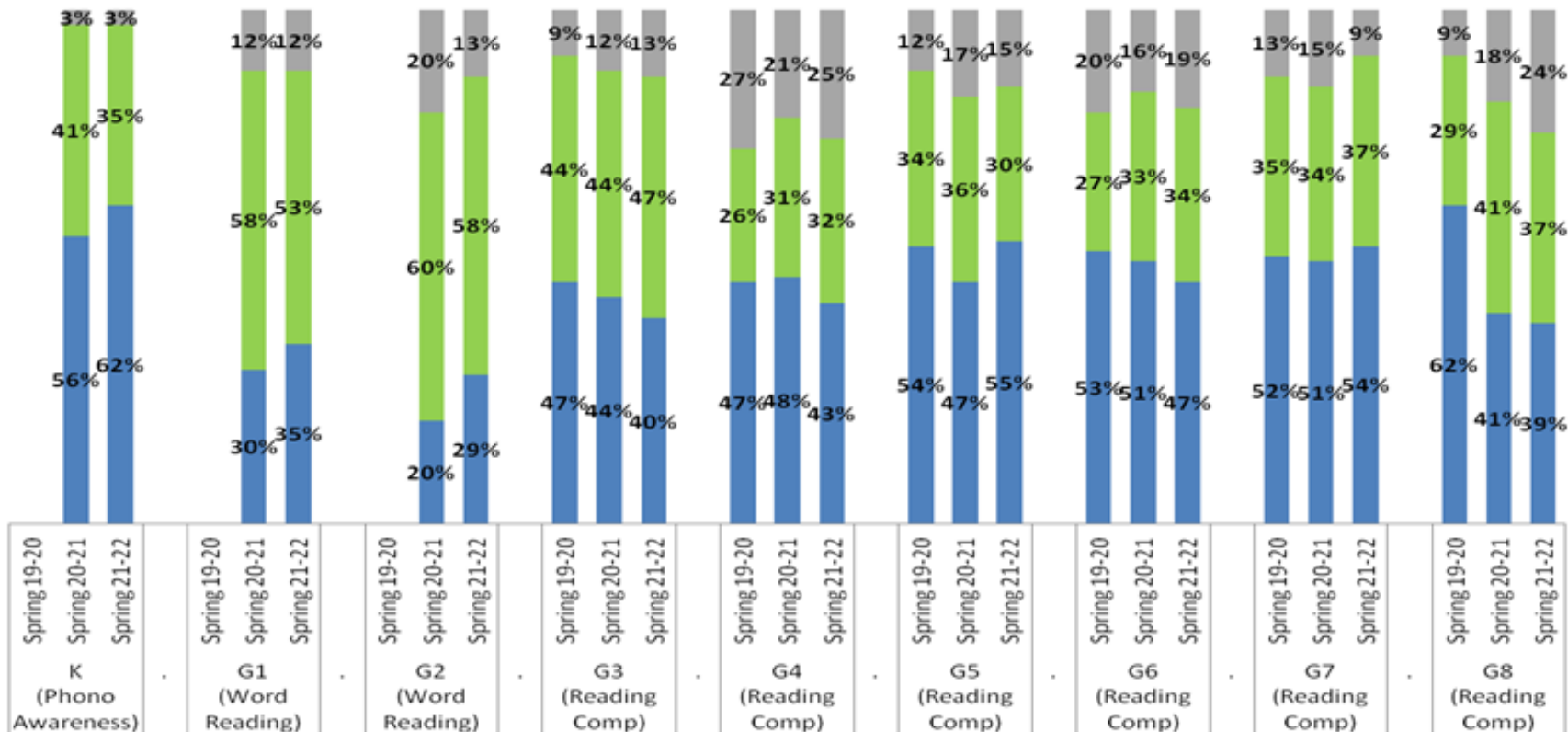
## Lexia Rapid ELA - Fall, Winter, Spring Progression 2021-22

■ Above grade level (>75th %ile)
 ■ On grade level (25th - 75th %ile)
 ■ Below grade level (<25th %ile)



## Lexia Rapid ELA - Springs 19-20, 20-21, and 21-22

■ Above grade level (>75th %ile)  
■ On grade level (25th - 75th %ile)  
■ Below grade level (<25th %ile)



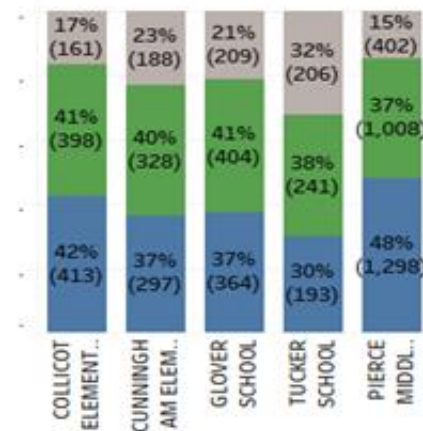
# District 3-8 Overview by Subgroups (Spring)

 Lexia Rapid ELA  
2021-22



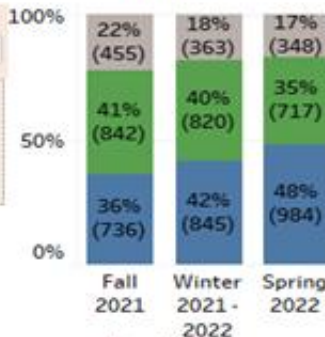
Note: Small sample sizes of subgroups can have outsized impact on the percentages.

(School)

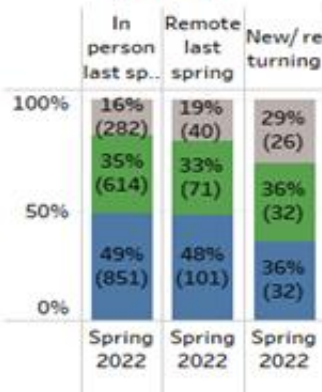


**Grade**  
(Multiple v...)

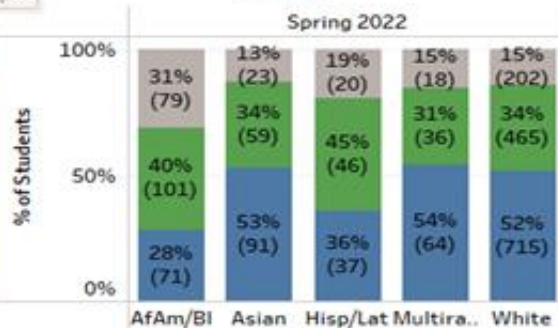
(Time)



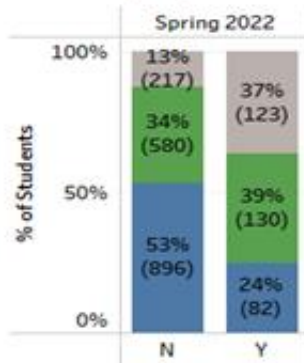
(Model)



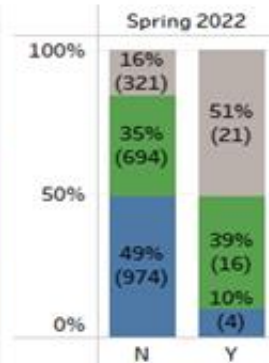
(Race)



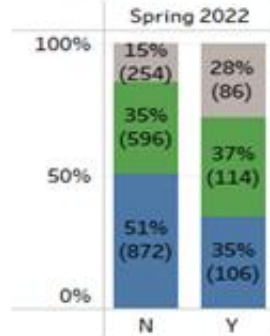
(IEP)



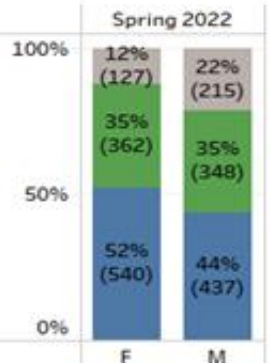
(ELL)



(Low income)



(Gender)



Note: These analyses only consider grades 3-8, because they all take the Reading Comprehension subtest. Grades K-2 do not take this subtest.

# Elementary & Middle School Reading Comprehension

## % Change by Subgroups

Elementary G3-5

% On or Above Grade Level	Fall	Spring	Change
<b>AfAm/Black</b>	<b>47%</b>	<b>67%</b>	<b>+20%</b>
Asian	79%	85%	+6%
<b>Hisp/Lat</b>	<b>59%</b>	<b>78%</b>	<b>+19%</b>
Multiracial	74%	82%	+8%
White	74%	86%	+12%
<b>Low Income</b>	<b>49%</b>	<b>71%</b>	<b>+22%</b>
<b>IEP</b>	<b>37%</b>	<b>63%</b>	<b>+26%</b>
<b>ELL</b>	<b>22%</b>	<b>47%</b>	<b>+25%</b>
All G3-5	71%	83%	+12%

Middle School G6-8

% On or Above Grade Level	Fall	Spring	Change
<b>AfAm/Black</b>	<b>68%</b>	<b>70%</b>	<b>+2%</b>
Asian	93%	90%	-3%
<b>Hisp/Lat</b>	<b>76%</b>	<b>84%</b>	<b>+8%</b>
Multiracial	98%	89%	-9%
White	88%	85%	-3%
<b>Low Income</b>	<b>74%</b>	<b>73%</b>	<b>-1%</b>
<b>IEP</b>	<b>58%</b>	<b>64%</b>	<b>+6%</b>
<b>ELL</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>
All G6-8	86%	81%	-5%

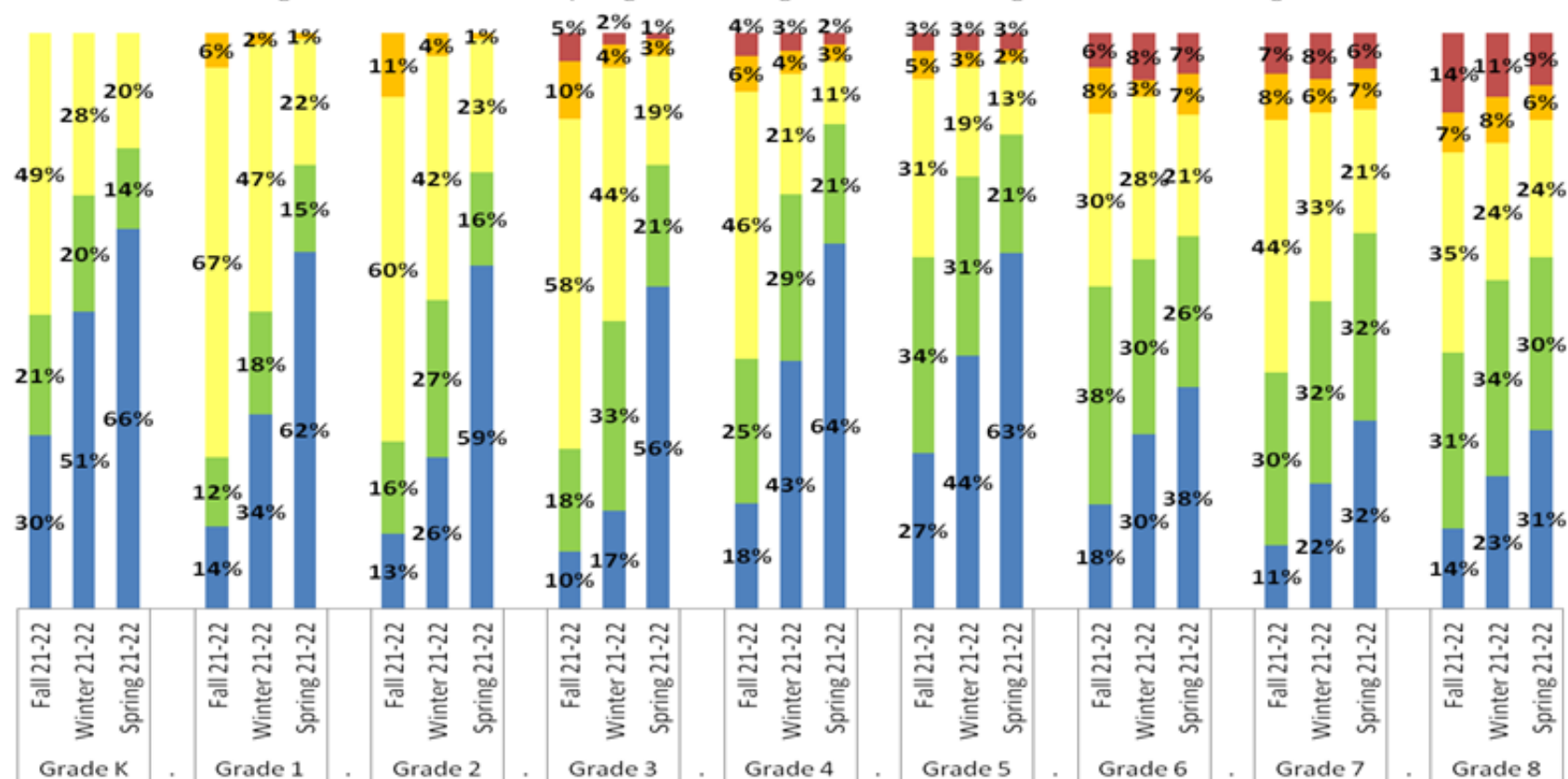
Note: K-2 do not take the Reading Comprehension subtest.

iReady Math



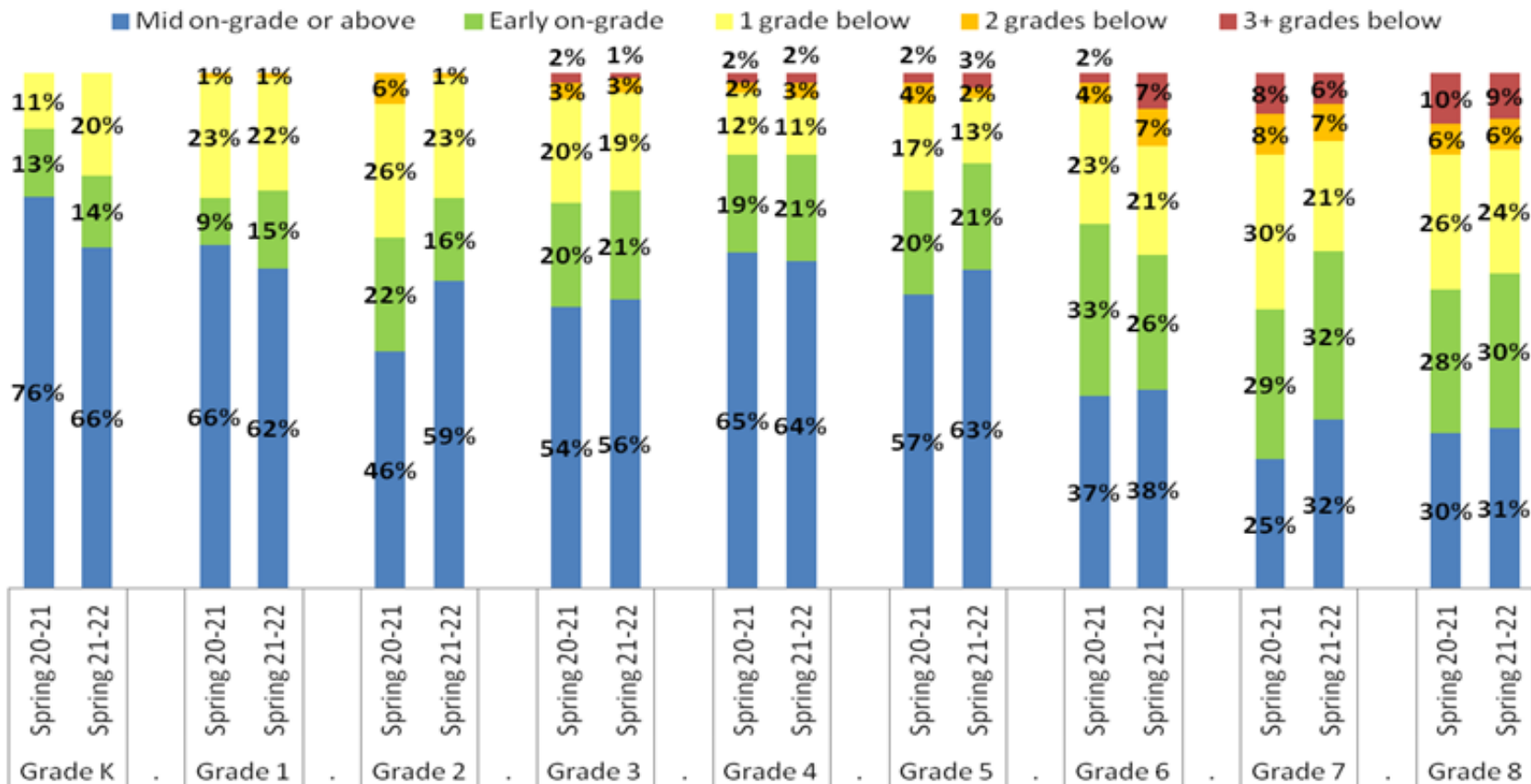
# iReady Math - Fall, Winter, Spring Progression 2021-22

Mid-on-grade or above Early on-grade 1 grade below 2 grades below 3+ grades below



Note: i-Ready's placements are an indication of what students are expected to know at each grade level. The mid or above grade level placement refers to students who may be considered proficient for their grade.

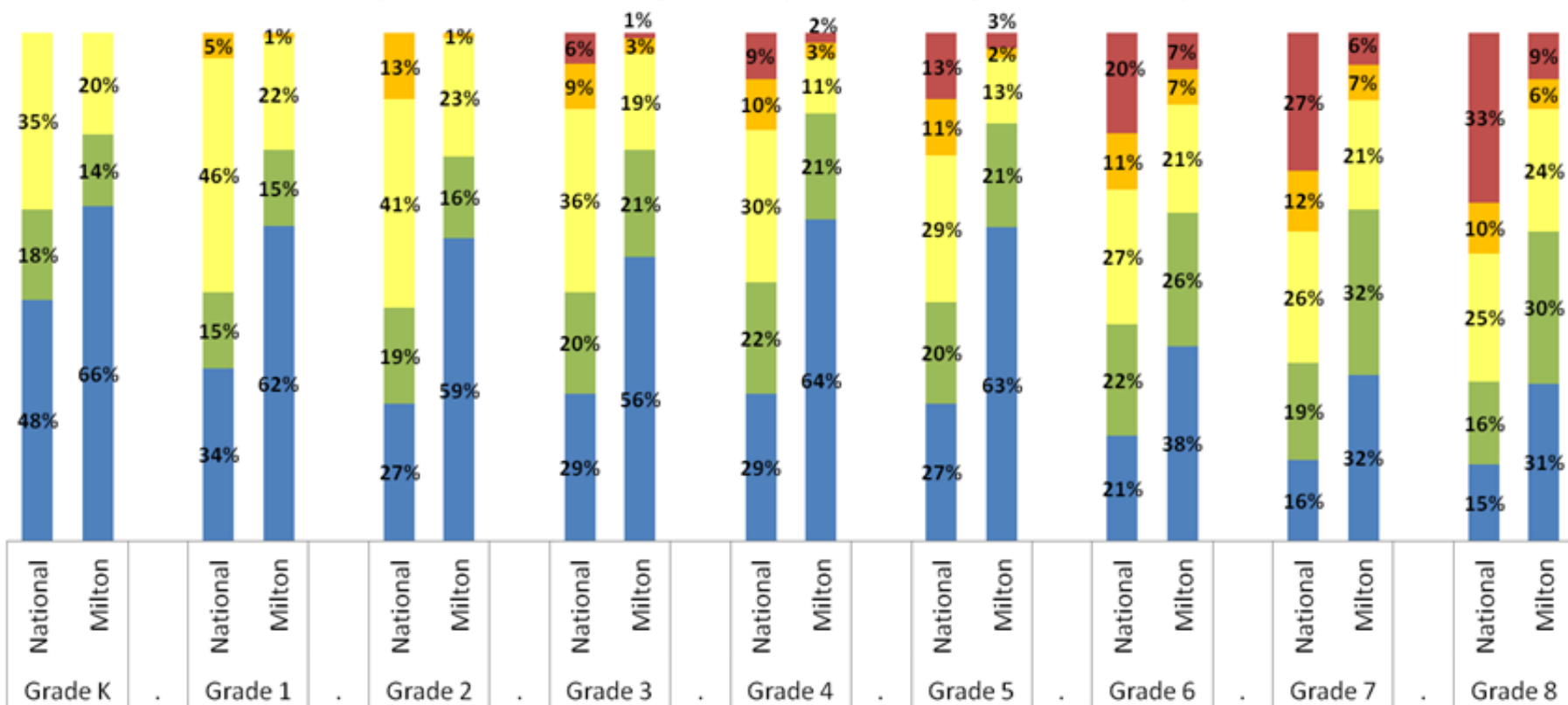
## iReady Math, Spring 20-21 vs. Spring 21-22



Note: iReady Math was first given in the district in Winter 2020-21.

## iReady Math Spring 21-22 Comparison to National

■ Mid on-grade or above 
 ■ Early on-grade 
 ■ 1 grade below 
 ■ 2 grades below 
 ■ 3+ grades below

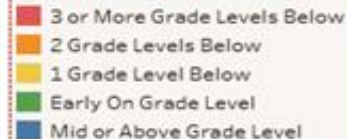


# District K-8 Overview by Subgroups (Spring)



## i-Ready Math 2021-22 Spring Assessment

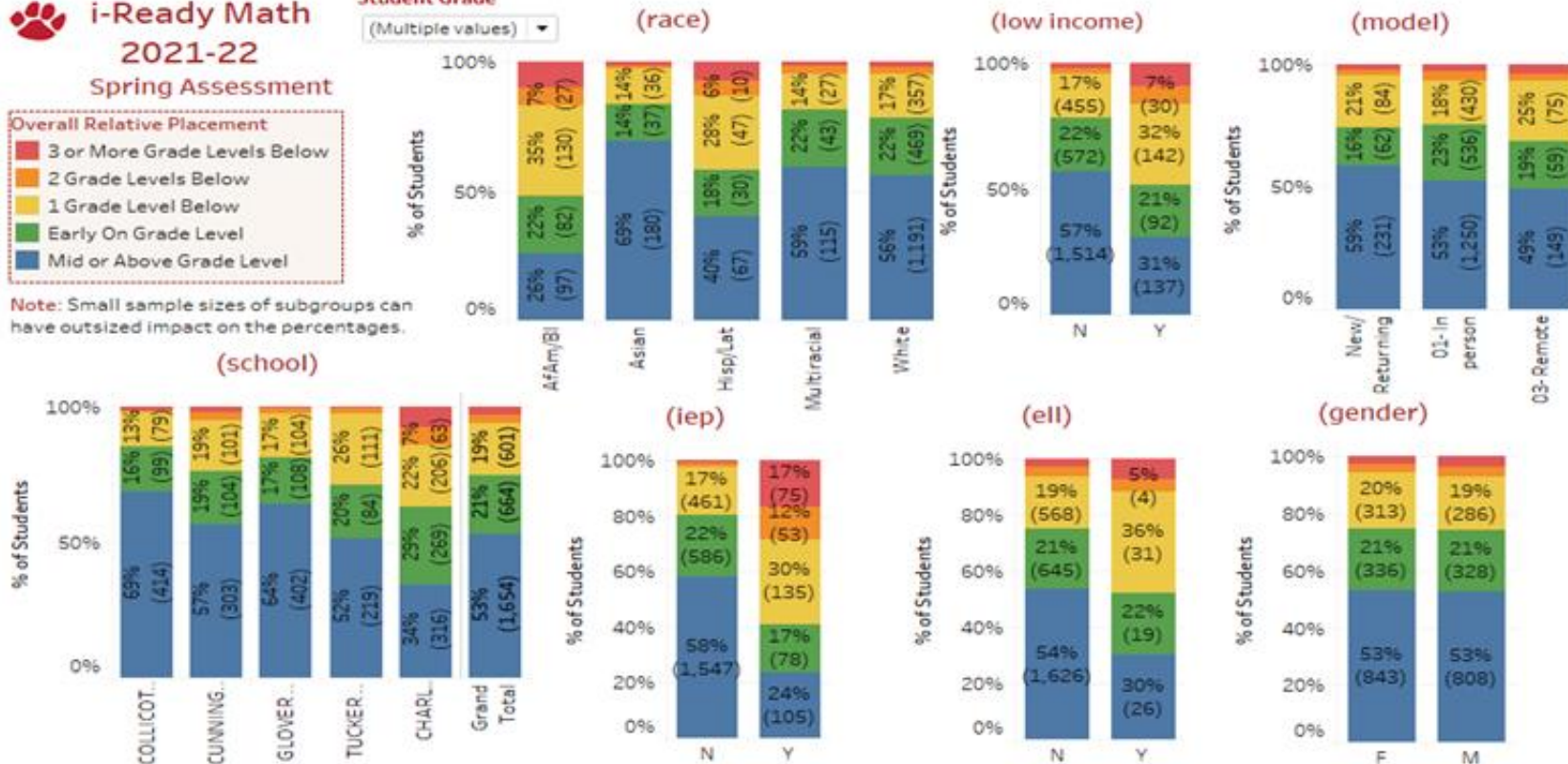
### Overall Relative Placement



Note: Small sample sizes of subgroups can have outsized impact on the percentages.

Student Grade

(Multiple values)



\* Model indicates the instructional model the students had in Spring 2021.

# Elementary & Middle School Math Overall Proficiency

## % Change by Subgroups

Elementary K-5

% Early on, Mid or Above Grade Level	Fall	Spring	Change
<b>AfAm/Black</b>	<b>18%</b>	<b>55%</b>	<b>+37%</b>
Asian	50%	85%	+35%
<b>Hisp/Lat</b>	<b>32%</b>	<b>65%</b>	<b>+33%</b>
Multiracial	38%	85%	+47%
White	43%	83%	+40%
<b>Low Income</b>	<b>16%</b>	<b>59%</b>	<b>+43%</b>
<b>IEP</b>	<b>17%</b>	<b>49%</b>	<b>+32%</b>
<b>ELL</b>	<b>9%</b>	<b>58%</b>	<b>+49%</b>
All K-5	40%	79%	+39%

Middle School 6-8

% Early on, Mid or Above Grade Level	Fall	Spring	Change
<b>AfAm/Black</b>	<b>18%</b>	<b>36%</b>	<b>+18%</b>
Asian	70%	79%	+9%
<b>Hisp/Lat</b>	<b>27%</b>	<b>40%</b>	<b>+13%</b>
Multiracial	42%	72%	+30%
White	40%	68%	+28%
<b>Low Income</b>	<b>19%</b>	<b>36%</b>	<b>+17%</b>
<b>IEP</b>	<b>15%</b>	<b>27%</b>	<b>+12%</b>
<b>ELL</b>	n/a	n/a	n/a
All 6-8	47%	63%	+16%

# Intellispark/SEL Student Voice Surveys

# Data Context

- MPS piloted the Intellispark SEL screeners in winter 20-21 as part of the effort to document SEL data among our students.
- Students at the High School and Middle School were able to take the screeners during an Advisory block or Connection Time period.
  - In the spring round, our graduated seniors did not participate.
- The district collaborated with Intellispark to develop an elementary version for our younger students. We piloted in 17 classrooms in spring 2021, and in December 2021, we were able to push out the screener to all elementary students.
  - In the spring round, only students in grades 2-5 were asked to complete the screeners.
- These student questionnaires are **quick dipsticks** and are **not meant to be used for high-stakes decision-making**. They incorporate concepts that are difficult to measure and that are not likely to be stable longitudinally or in different environments.
  - The results allow us to quickly identify patterns across a big group of students, triangulate information to address individual student challenges, and support school-based or district-based intervention efforts.

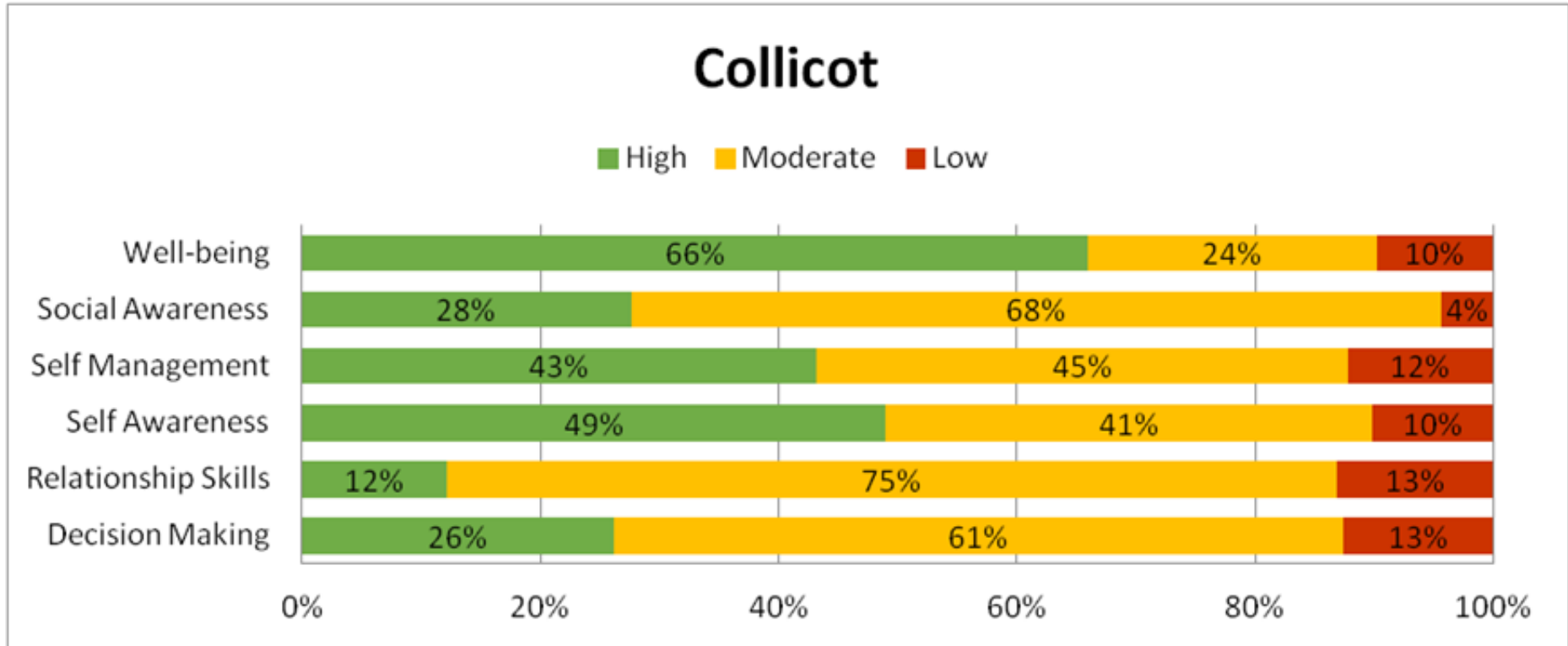
# Data Context

- Intellispark screeners are aligned with the CASEL Framework for Social & Emotional Learning.

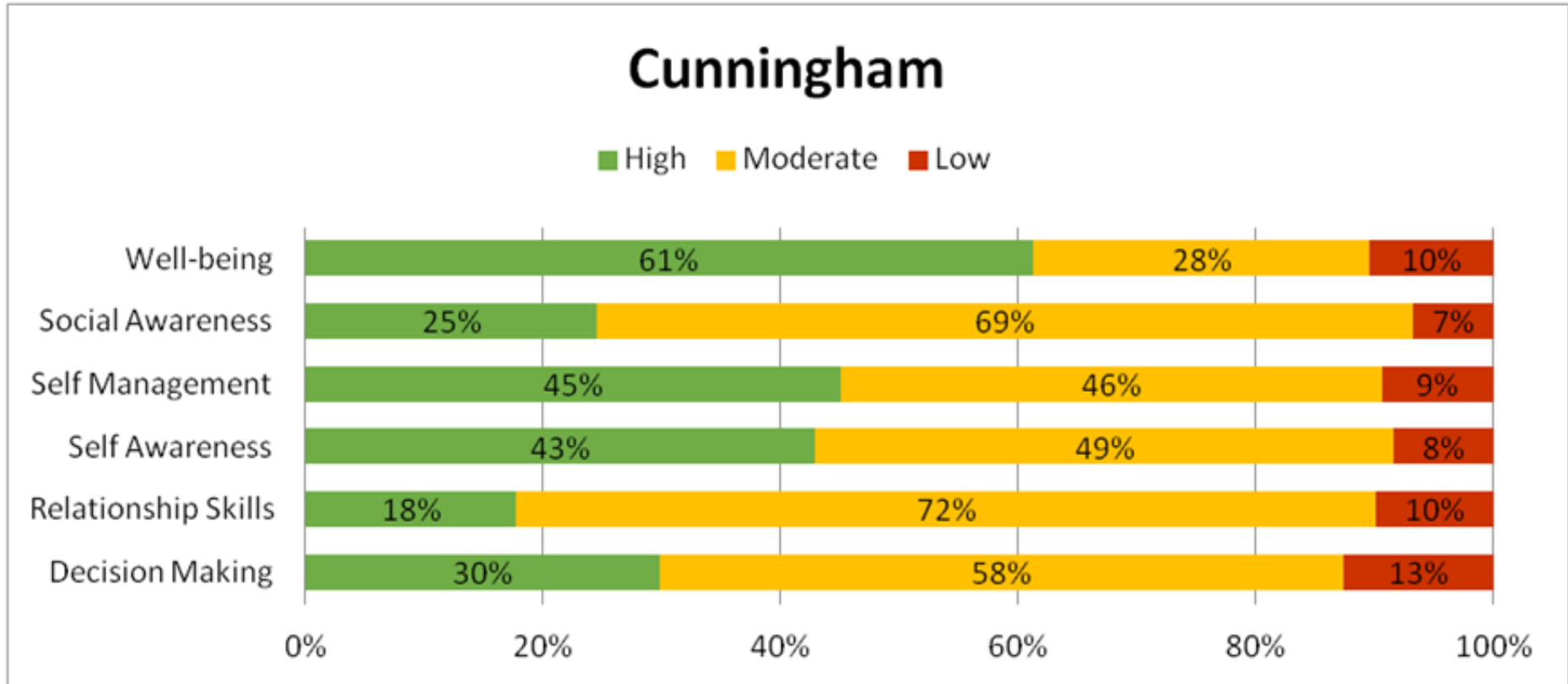




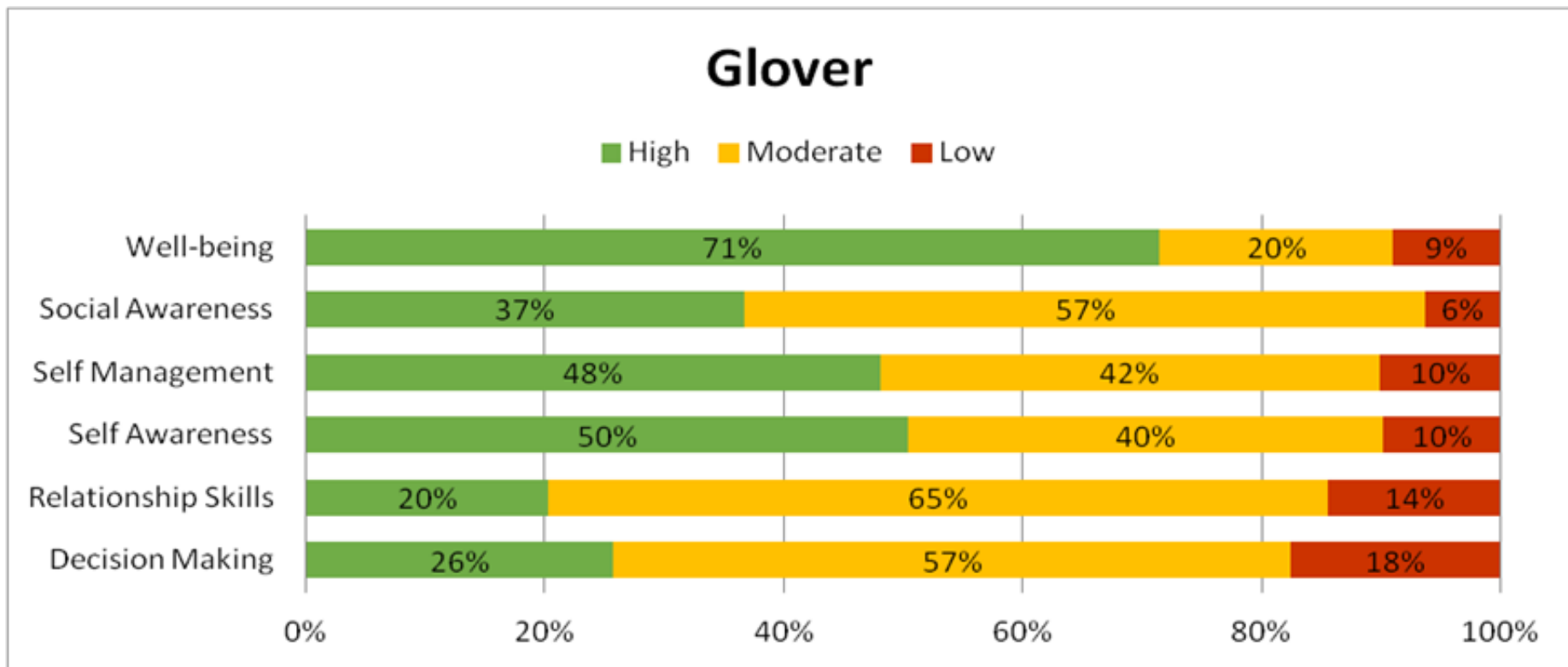
# Spring SEL Data



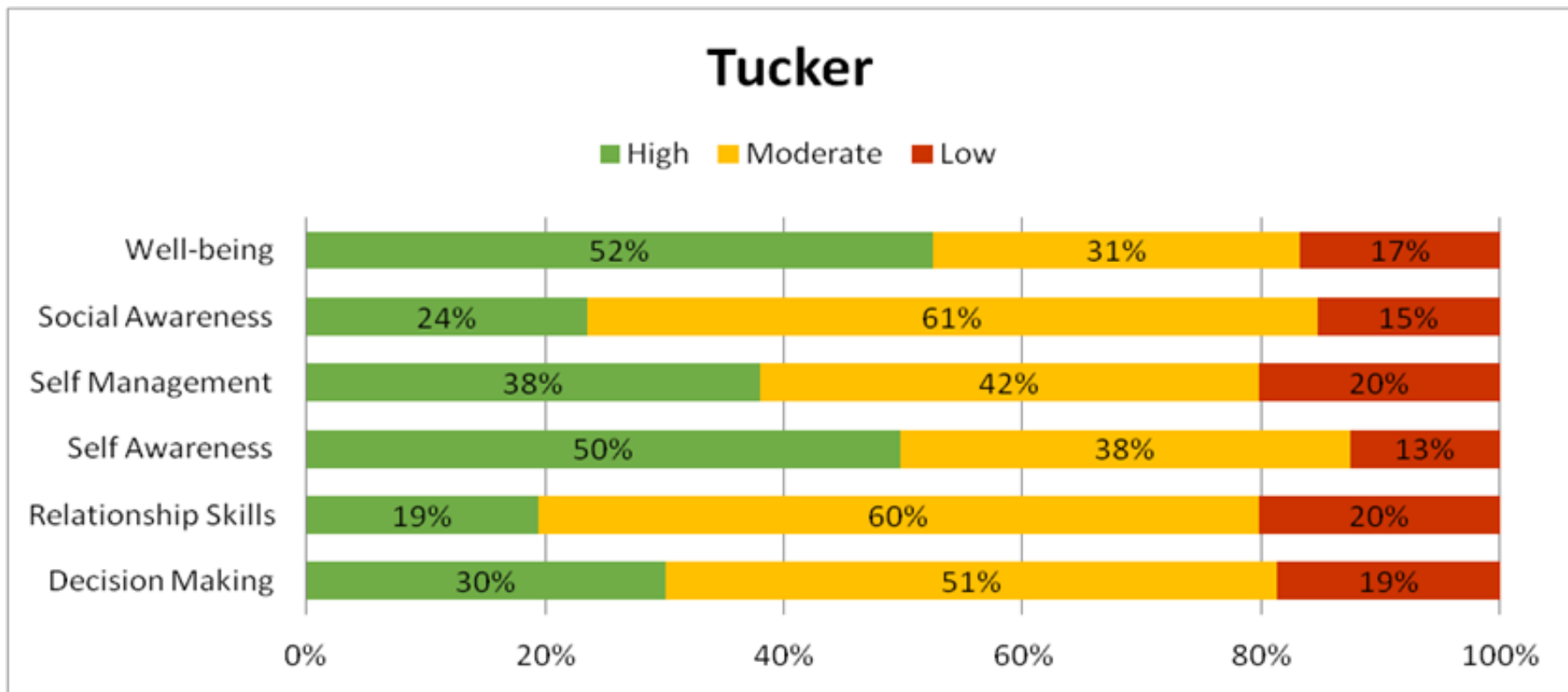
# Spring SEL Data



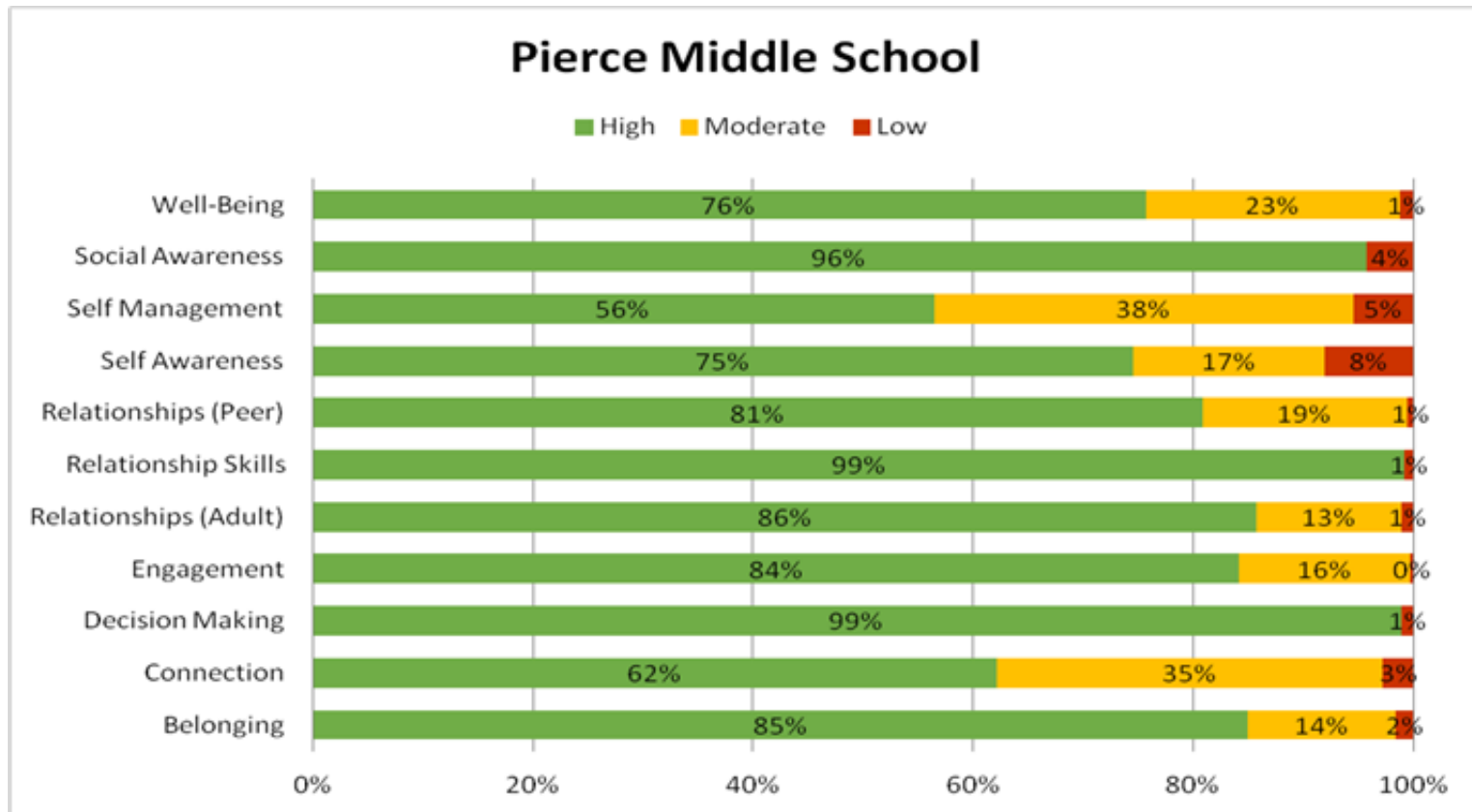
# Spring SEL Data



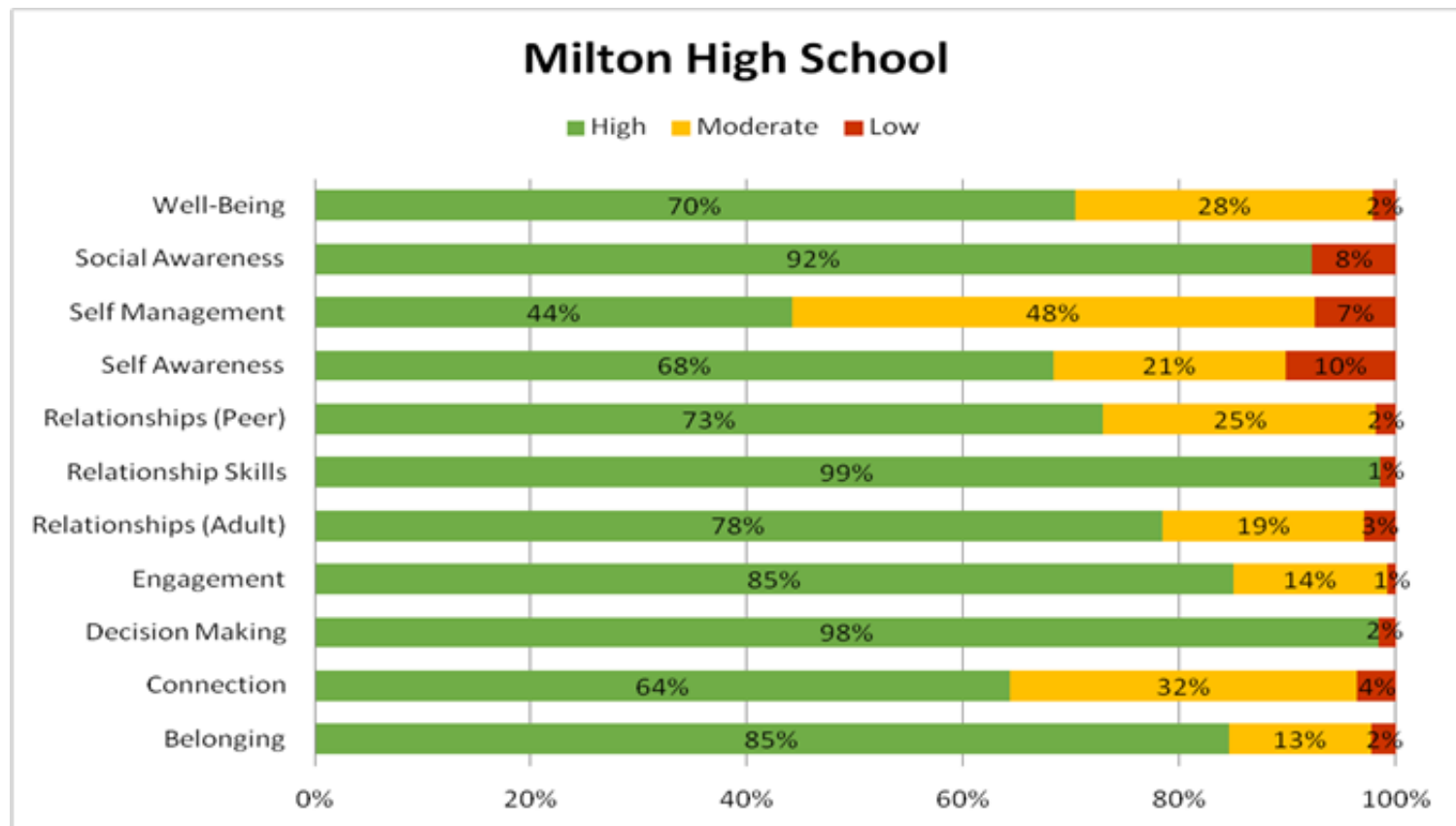
# Spring SEL Data



# Spring SEL Data



# Spring SEL Data



# Key Takeaways

- ELA (Lexia Rapid)

- Younger elementary students experienced more growth relative to older students; however older students, particularly middle schoolers, started out the year with a higher level of proficiency.
- Students in subgroups experienced higher growth than the average growth rate.

- Math (iReady)

- Elementary students experienced significant growth during the year.
- Students at all grade levels performed better on iReady than national results.
- Testing fatigue in June, after all the MCAS, may have negatively impacted student results in 3-8 grades.
- In light of the difference in how iReady captures elementary vs. middle school learning, we will continue to monitor the screener this year and evaluate whether iReady is the most effective diagnostic tool for middle school math.

- MCAS

- DESE has been delayed in releasing MCAS scaled scores this year. We are still awaiting the full release to triangulate our data, perform further analyses and understand the new “baseline” data post the pandemic disruption.

# Key Takeaways

- SEL (Intellispark)
  - Across all 4 elementary schools, the highest scoring domains are Well-being and Self Awareness. The lowest scoring domains at the elementary level are Social Awareness and Relationship Skills.
  - At the middle school, the highest scoring domains are Social Awareness and Relationships (Adult)/Engagement/Belonging. The lowest scoring domains are Self Management and Connection.
  - At the high school, the highest scoring domains are Social Awareness and Engagement/Belonging. The lowest scoring domains are Self Management and Connection, similar to the middle school.
  - Though Decision Making and Relationship Skills are also high at both secondary levels, there are only 2 questions tied to each domain.
  - Student support teams have access to individual student data to plan interventions as needed.
  - This platform does not disaggregate data in great details.



# District Next Steps

- Meet with MPS Strategy Metrics Team to review Spring 2022 MCAS data, AP & SAT data and establish SMARTIE goals
- Monitor elementary mathematics curriculum implementation and professional development
- Utilize iReady standards mastery assessments at the middle school level
- Explore possible alternatives to iReady at the middle school level pending further MCAS analyses
- Find a replacement for Lexia Rapid, as it is sunsetting this year
- Complete PD on data analysis with Data Wise Project from Harvard Graduate School of Education
- Engage in regular data cycles to routinely monitor and evaluate data collected to inform classroom instruction
- Use data to strategically deploy additional support positions (early literacy, reading specialists, math interventionists) for student success
- Conduct learning walks focused on best practices for teaching and learning, equity, SEL, student engagement, and personalized learning
- Update our 20+ years old Rediker Student Information System with the more state-of-the-art PowerSchool system to support the direction of the new Strategic Plan and more personalized learning. This infrastructure change will have enormous impact on key aspects of how students, teachers, and families interact with each other through shared data and integrated platforms