
Spring 2020/Fall 2020 Academic Assessment Update

Medway School Committee ~ December 3, 2020



Goal

- Provide a data informed context for identified areas of focus in support of both improved student learning and understanding of our pandemic learning gaps.

Types of Assessments Examined

Summative: End of instruction (AP, SAT) - these measures are available for Spring, 2020.

What can be learned from these data sets to inform strategic planning for student learning?

Diagnostic: Beginning of year with the goal of prediction and identification of students at risk. (iReady, IXL) - these measures were prioritized as those which could answer the question:

How can we gain an understanding of the impact the pandemic has had on student learning?

Context...Spring/Fall 2020 Represented...

- No Spring 2020 MCAS; resuming this year
- Year 3 of iReady Math and ELA Diagnostic and limited tier 2 intervention resources in Grades 2-5
- Year 1 of iReady Math and ELA Diagnostic Grades K-1
- Year 2 of IXL English / Language Arts and Mathematics implementation for Grades 6-8
- Year 1 of IXL English / Language Arts and Mathematics implementation for Grades 9-10

Spring 2020 High School Assessment Information



Spring 2020 Advanced Placement Testing

Typical Testing Year	Spring 2020
Multiple choice and free response	Free response only
3-hour timed exam	1-hour timed exam
Includes all units of study	Omitted some units of study
No notes or textbook allowed	Open book, open notes
Paper and pencil-based test	Computer-based test
No submission errors; students take test one time	Test submission errors; some students had to retake exams due to technical difficulties

AP Highlights for English

Course	2020: % of scores at 3 or above (# of students)	2019: % of scores at 3 or above (# of students)	2020 School Mean	2019 School Mean
AP Literature and Composition	100% (18)	81% (30)	3.72	3.54
AP Language and Composition	81.5% (44)	78.5% (51)	3.6	3.30

AP Highlights for Mathematics

Mathematics Course	2020: % of scores at 3 or above (# of students)	2019: % of scores at 3 or above (# of students)	2020: Mean	2019: Mean
AP Calculus (AB)	50% (14)	54.5%(18)	2.8	2.9
AP Calculus (BC)	81.8%(9)	100%(11)	3.9	4.2
AP Statistics	60.5%(26)	64.2%(34)	3.0	3.75

AP Highlights for Science/Tech/Eng.

Course	2020: % of scores at 3 or above (# of students)	2019: % of scores at 3 or above (# of students)	2020 School Mean	2019 School Mean
AP Biology	75.6% (31)	35.0 % (20)	3.0	2.60
AP Chemistry	85.7% (6)	86.7 % (15)	3.14	3.53
AP Physics 1	67.3% (11)	70.0 % (20)	2.93	2.95

AP Highlights for History/Social Sciences

History/SS Course	2020: % of scores at 3 or above (# of students)	2019: % of scores at 3 or above (# of students)	2020: Mean	2019: Mean
AP Economics (Macro)	45% (9)	48% (24)	2.55	2.64
AP Economics (Micro)	71% (17)	52% (26)	3.29	2.64
AP Euro	81% (30)	80% (37)	3.54	3.50
AP Psychology	83% (62)	83% (60)	3.59	3.61
AP US	75% (38)	68% (37)	3.18	2.69
AP US Government	92% (12)	93% (27)	4.15	4.00

AP Highlights for World Languages

Course	2020: % of scores at 3 or above (number of students)	2020 School Mean	2020 State Mean	2019 % of scores at 3 or above (number of students)
AP French	50% (12)	2.67	3.83	44.4% (9)
AP Spanish	70.6% (17)	3.18	3.90	62.5% (16)

Class of 2021 SAT Data



SAT Testing

Typical Testing Year	Spring-Fall 2020
Juniors encouraged to participate in May or June test prior to Senior year	All Spring and Summer 2020 tests cancelled
Saturday Exam Date	School-day tests offered to class of '21 in September and October
Results available by June	October Saturday test at MHS also held
Students make adjustments over the summer	Enhanced safety + security protocols
Participate in additional tests in August and/or October	Many colleges and universities test optional for class of '21

SAT Evidence Based Math

Key Takeaways:

October SAT: Medway performed the same as the state average but above the full group average.

School day test: Medway outperformed both the state and full group.

Date of Test	# of Medway test takers	Medway Avg.	State Avg.	Full Group Avg.
Oct. 2020	45	608	609	597
School Day: Fall 2020	99	602	578	512

SAT Evidence Based Reading and Writing

Key Takeaways:

October SAT: Medway performed below the state average but above the full group average.

School day test: Medway outperformed both the state and full group.

Date of Test	# of Medway test takers	Medway ERW Avg.	State ERW Avg.
Oct. 2020	45	597	604
School Day: Fall 2020	99	593	578

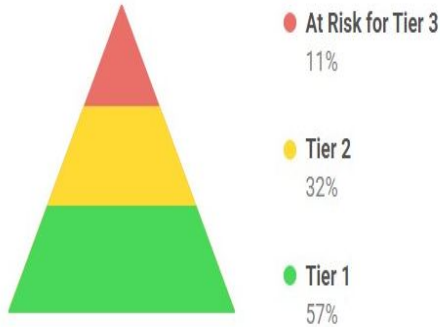
Fall 2020 Diagnostic Information

Grades K-10 Reading / English / Language Arts and Mathematics

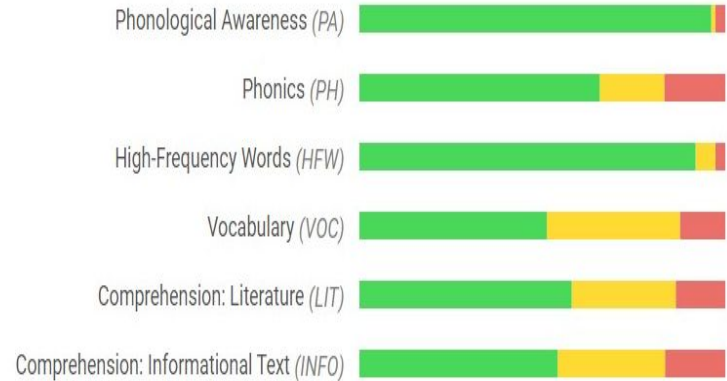


K-1 iReady Reading

Overall Placement



Placement By Domain

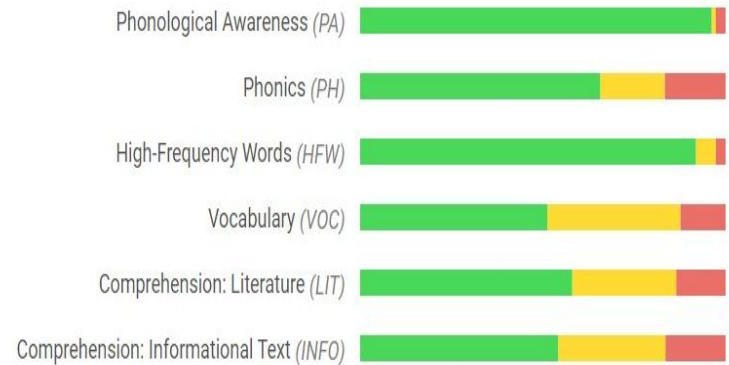


Grade 2-4 iReady Reading

Overall Placement



Placement By Domain



Graduating Class Comparisons (Reading)

Grade	BOY 19-20	BOY 20-21
Class of 2031 (2nd grade)	*did not assess in 19-20	On grade level: 43% 1 grade level below: 48% 2 or more grade levels below: 8%
Class of 2030 (3rd grade)	On grade level: 77% 1 grade level below: 13% 2 or more grade levels below: 10%	On grade level: 67% 1 grade level below: 16% 2 or more grade levels below: 17%
Class of 2029 (4th grade)	On grade level: 56% 1 grade level below: 36% 2 or more grade levels below: 9%	On grade level: 60% 1 grade level below: 33% 2 or more grade levels below: 7%

Before Closure vs After Closure (Reading)

Grade	BOY 19-20	BOY 20-21
Grade 1	Did not assess	On grade level: 28% One grade level below: 69% Two or more grade levels below: 3%
Grade 2	On grade level: 63% One grade level below: 32% Two or more grade levels below: 5%	On grade level: 43% One grade level below: 48% Two or more grade levels below: 8%
Grade 3	On grade level: 63% One grade level below: 32% Two or more grade levels below: 5%	On grade level: 68% One grade level below: 16% Two or more grade levels below: 17%
Grade 4	On grade level: 74% One grade level below: 20% Two or more grade levels below: 6%	On grade level: 60% One grade level below: 33% Two or more grade levels below: 7%

not the same cohorts of students

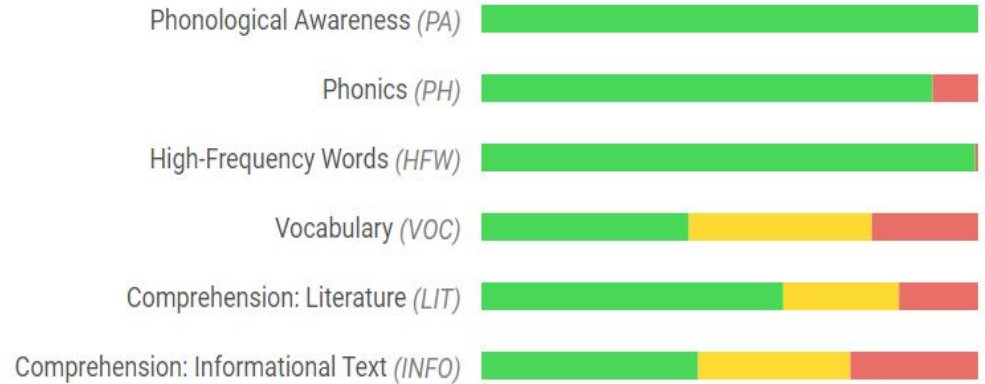
Valuable view from the educator's perspective

Fall 2020 Grade 5 iReady Reading

Overall Placement



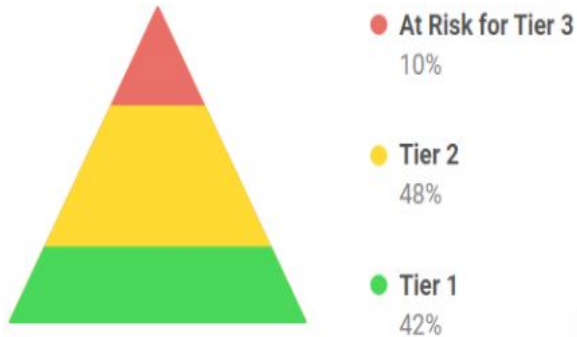
- At Risk for 1
20%
- Tier 2
33%
- Tier 1
47%



Class of 2028: 2019-2020 Comparison (current grade 5)

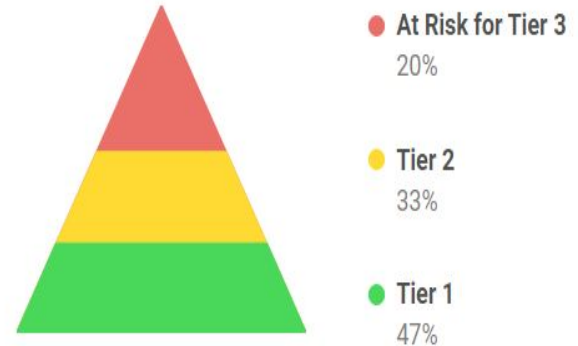
2019

Overall Placement



2020

Overall Placement



Before Closure vs After Closure (Grade 5 Reading)

Grade	BOY 19-20	BOY 20-21
Grade 5	On grade level: 60% 1 grade level below: 31% 2 or more grade levels below: 8%	On grade level: 47% 1 grade level below: 33% 2 or more grade levels below: 20%

*not the same cohorts of students
Valuable view from the educator's perspective

Grade 6-8 IXL English Language Arts

Grade	Average diagnostic level	Average diagnostic placement
6	573	One grade level behind
7	724	On grade level
8	780	One grade level behind

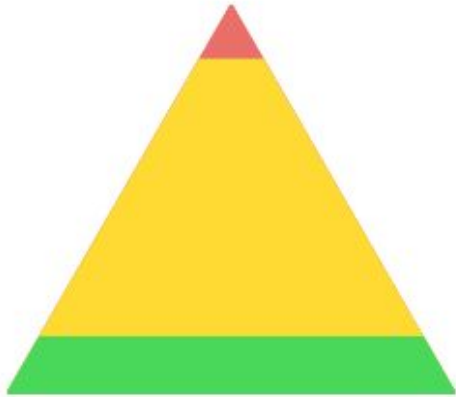
Grade 9-10 IXL English Language Arts

Grade	Average diagnostic level	Average diagnostic placement (based on data so far)
9	902	At Grade level
10	981	Slightly below grade level

Mathematics



Fall 2020 Grade K-1 iReady Mathematics



● **At Risk for Tier 3**

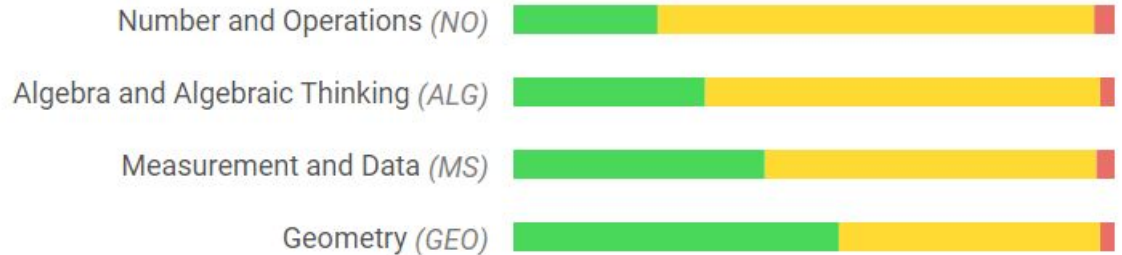
2%

● **Tier 2**

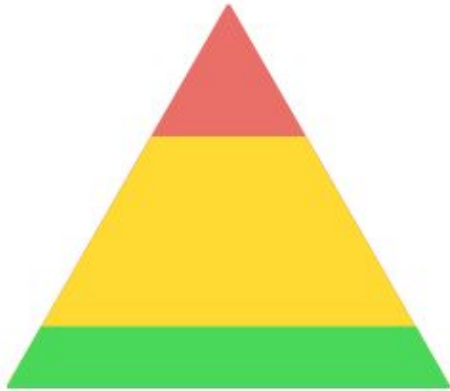
71%

● **Tier 1**

27%



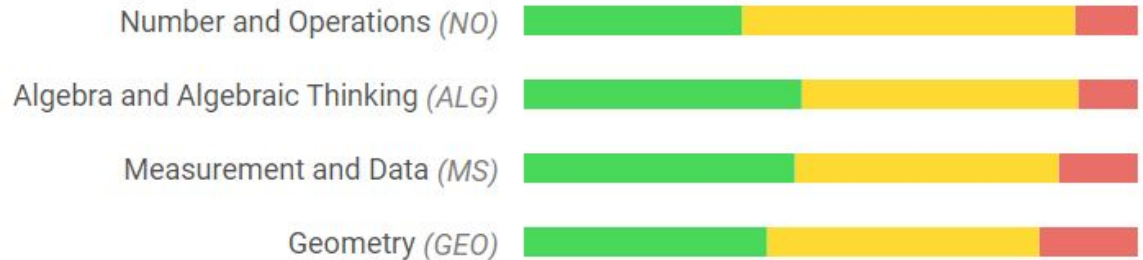
Fall 2020 Grade 2-4 iReady Mathematics



● **At Risk for Tier 3**
12%

● **Tier 2**
59%

● **Tier 1**
29%



Graduating Class Comparisons (Math)

Grade	BOY 19-20	BOY 20-21
Class of 2032 (1st Grade)	On grade level: 41% 1 grade level below: 59% 2 or more grade levels below: 0%	On grade level: 20% 1 grade level below: 77% 2 or more grade levels below: 3%
Class of 2031 (2nd Grade)	On grade level: 29% 1 grade level below: 69% 2 or more grade levels below: 2%	On grade level: 23% 1 grade level below: 68% 2 or more grade levels below: 9%
Class of 2030 (3rd Grade)	On grade level: 35% 1 grade level below: 56% 2 or more grade levels below: 9%	On grade level: 24% 1 grade level below: 63% 2 or more grade levels below: 14%
Class of 2029 (4th Grade)	On grade level: 40% 1 grade level below: 50% 2 or more grade levels below: 9%	On grade level: 41% 1 grade level below: 46% 2 or more grade levels below: 13%

Before Closure vs After Closure (Math)

Grade	BOY 19-20	BOY 20-21
Grade 1	<p>On grade level: 29%</p> <p>One grade level below: 69%</p> <p>Two or more grade levels below: 2%</p>	<p>On grade level: 20%</p> <p>One grade level below: 77%</p> <p>Two or more grade levels below: 3%</p>
Grade 2	<p>On grade level: 35%</p> <p>One grade level below: 56%</p> <p>Two or more grade levels below: 9%</p>	<p>On grade level: 23%</p> <p>One grade level below: 68%</p> <p>Two or more grade levels below: 9%</p>
Grade 3	<p>On grade level: 40%</p> <p>One grade level below: 50%</p> <p>Two or more grade levels below: 9%</p>	<p>On grade level: 24%</p> <p>One grade level below: 63%</p> <p>Two or more grade levels below: 14%</p>
Grade 4	<p>On grade level: 50%</p> <p>One grade level below: 40%</p> <p>Two or more grade levels below: 10%</p>	<p>On grade level: 41%</p> <p>One grade level below: 46%</p> <p>Two or more grade levels below: 13%</p>

not the same cohorts of students

Valuable view from the educator's perspective

Fall 2020 Grade 5 iReady Math



● **At Risk for Tier 3**

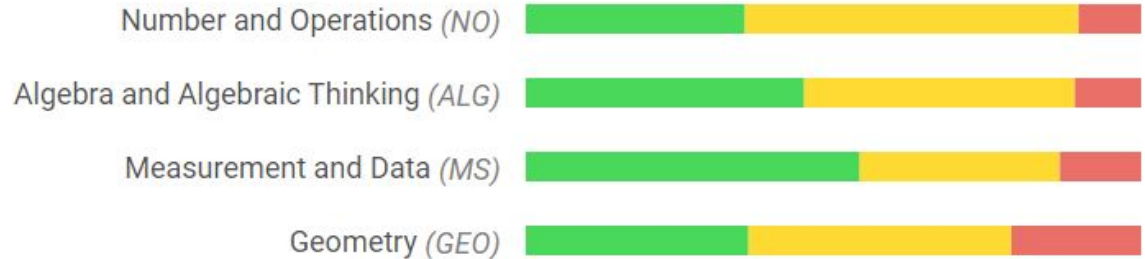
11%

● **Tier 2**

52%

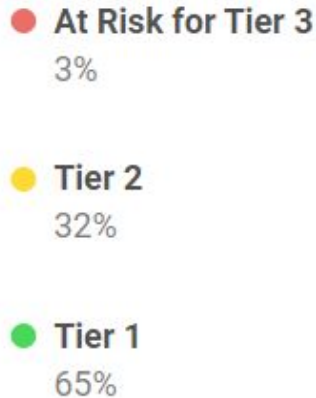
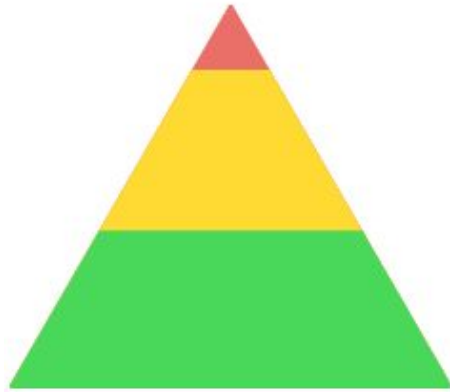
● **Tier 1**

37%

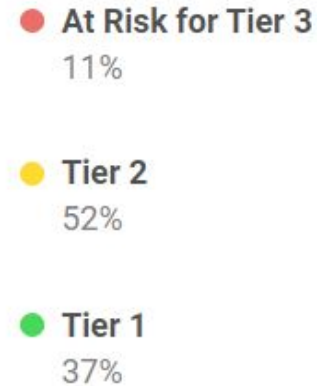
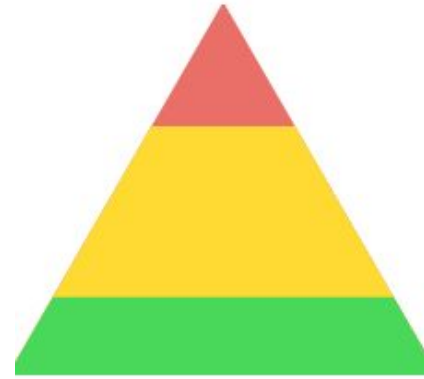


Class of 2028: 2019-2020 Comparison (current grade 5)

2019 (4th Grade)



2020 (5th Grade)



- Tier 1:** 28% decrease in the number of students who are in Tier 1.
- Tier 2:** 20% increase in the number of students who are in Tier 2.
- Tier 3:** 8% increase in the number of students who are in Tier 3.

Before Closure vs After Closure (Gr. 5 Math)

Grade	BOY 19-20	BOY 20-21
Grade 5	On grade level: 42% One grade level below: 48% Two or more grade levels below: 10%	On grade level: 37% One grade level below: 52% Two or more grade levels below: 11%

not the same cohorts of students

Grade 6-8 IXL Mathematics

Grade	Average diagnostic level	Average diagnostic placement (based on data so far)
6	522	One grade level behind
7	628	One grade level behind
8	743	One grade level behind

Grade 9-10 IXL Mathematics

Grade	Average diagnostic level	Average diagnostic placement (based on data so far)
9	730	Two grade levels behind
10	821	Two grade levels behind

Summary and Next Steps



Focused Improvement Strategies

- Transition to a full implementation of continuous diagnostic screener and intervention tool (*IXL*) in ELA and Math in grades 6-10
- Grade 6-12 English Language Arts Curriculum Review (completed Spring 2020) action planning - focus on integration of more diverse literature, standards based units of study, listening, speaking and language standards
- Addition of Reflex Math (fluency and automaticity) as a complement to *Ready Classroom Mathematics* in grades 2-4
- K-5 Literacy Audit delayed and working to define a pathway in this environment based on our assessment understandings
- Expansion of K-5 online intervention licenses (*My Path*) for all students in Reading and Mathematics
- Continued exploration and refinement of data analysis and intervention planning processes

Questions?

