ND State Assessment Scores & Learning Recovery

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NDSBA
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Introduction

- Data sources for this presentation are ND Insights, STARS Reporting and Analytics, NDSA-Centralized Reporting System (CRS), and the SAS Learning Impact Studies.

- NDSA Scores
  - o Look back at previous three years of calculated NDSA achievement levels at state level and a preview/prediction of 2022-2023.
  - o Discuss the different levels (state, district, school, grade, classroom, and student) with data sources and access.

- Learning Recovery
  - o Effect size study based on NDSA scale scores

- District specific handouts.

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Important Note

- It is very important to not take a single measure or assessment score and use it in judgement of a student, school, district, or state.

- It is best practice to use multiple educational/achievement measures. Example: Choice Ready and its indicators or the ND School Accountability model (assessment being a single indicator or measure and used with others)

- Large scale, standardized assessments should be used as a piece of evidence in a conclusion, not the entire conclusion itself.

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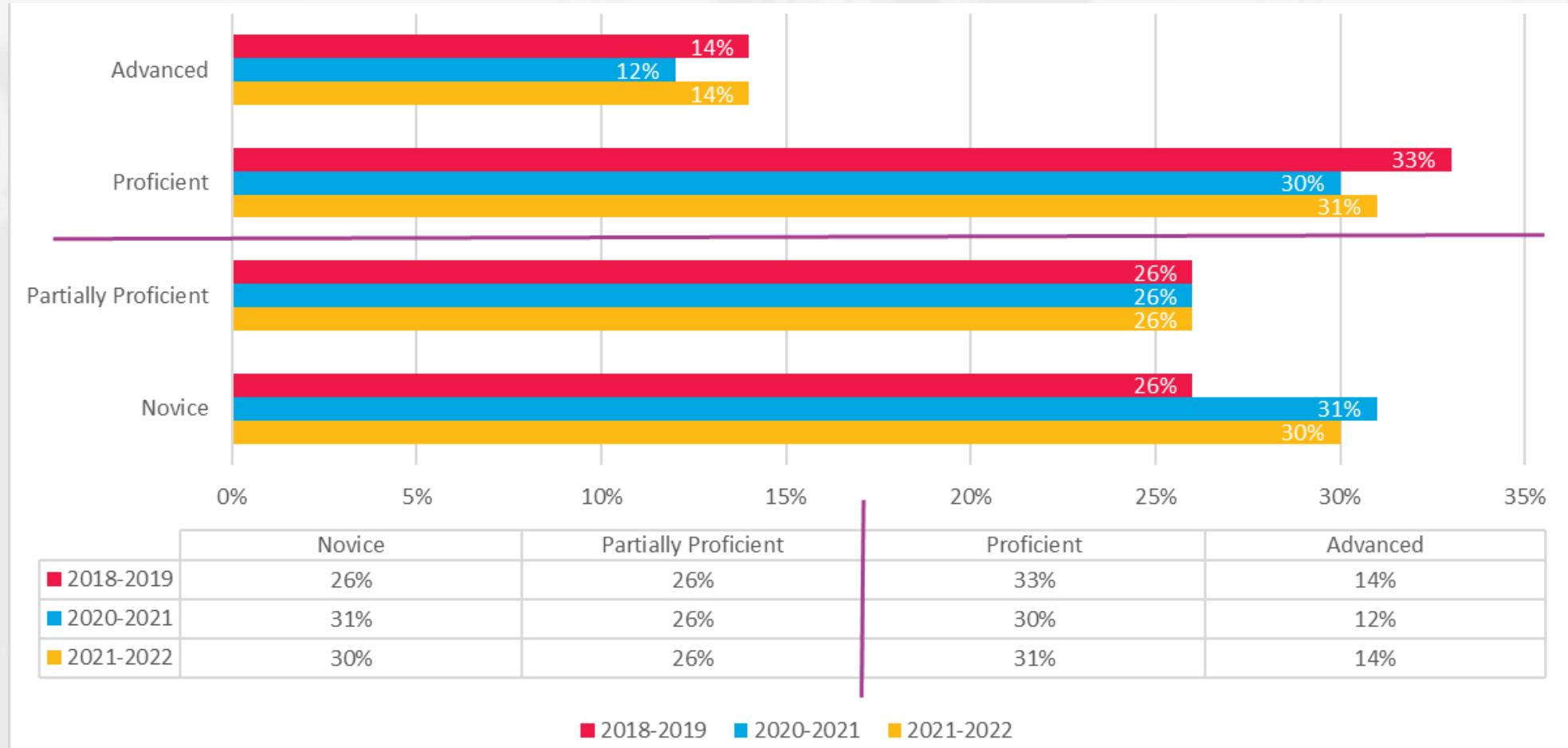**PUBLIC INSTRUCTION**

NDSA Scores: Statewide Achievement

- Each student in grades 3-8 and once in HS (grade 10 or 11) take the NDSA (or ACT in HS if district chooses) in the Spring. Subjects are English Language Arts, Math, and Science. Students receive a scale score that corresponds with a proficiency level (novice, partially proficient, proficient, or advanced).

- Each grade and proficiency level have a descriptor of what the student should be able to do, called achievement level descriptors. Both can be found on NDDPI Assessment Website.
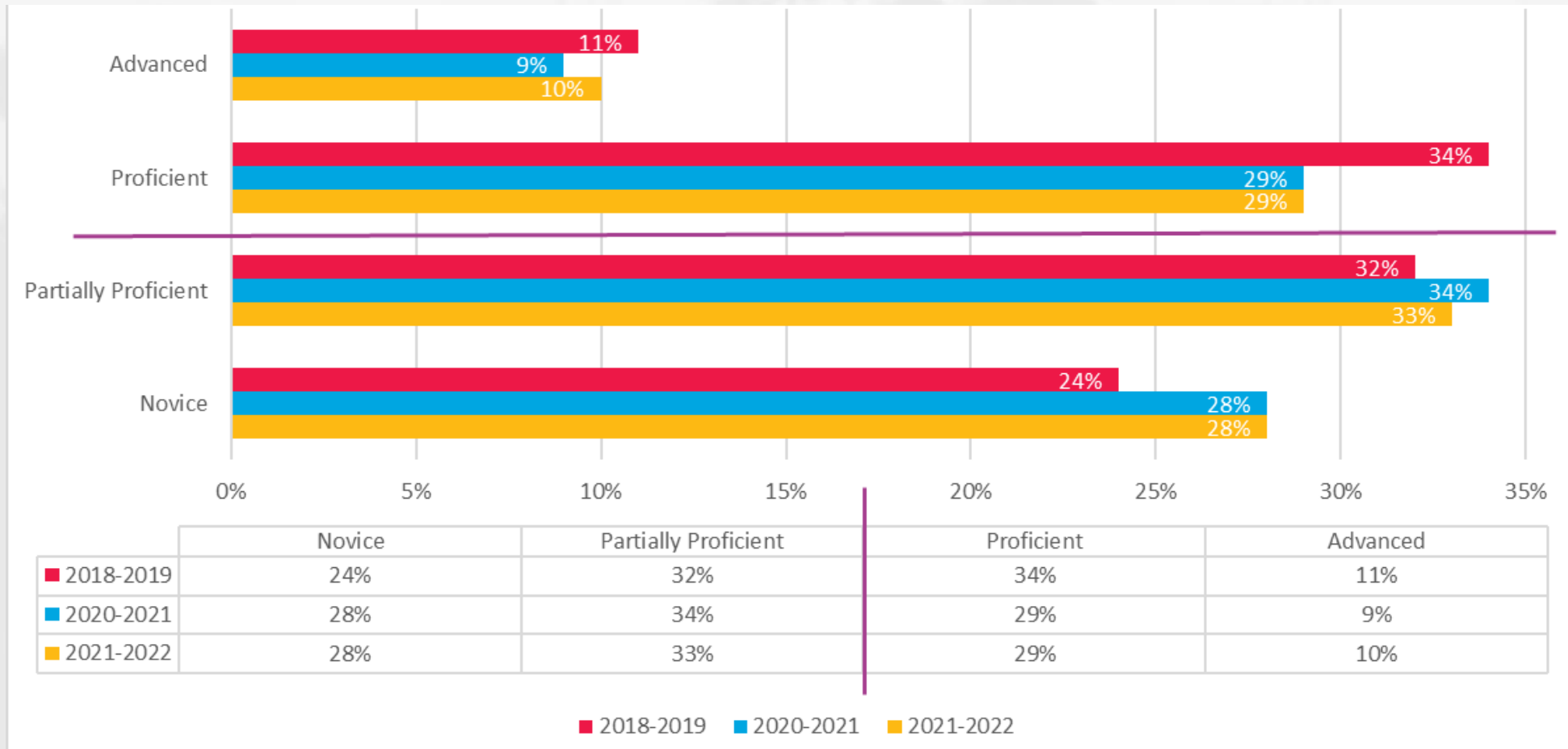
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NDSA Participation

	Students Tested		Participation Rate	
	Math	ELA	Math	ELA
2022	58,929	58,567	98%	97%
2021	56,915	56,672	96%	96%
2019	58,491	58,244	98%	98%

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English Language Arts – Achievement

	Novice	Partially Proficient	Proficient	Advanced
2018-2019	26%	26%	33%	14%
2020-2021	31%	26%	30%	12%
2021-2022	30%	26%	31%	14%

2018-2019 2020-2021 2021-2022

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Math – Achievement

	Novice	Partially Proficient	Proficient	Advanced
2018-2019	24%	32%	34%	11%
2020-2021	28%	34%	29%	9%
2021-2022	28%	33%	29%	10%

■ 2018-2019 ■ 2020-2021 ■ 2021-2022

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English Language Arts – by Demographic

2022 English Language Arts (ELA)

Demographic	%	%
White	48.68%	51.32%
Native American / Alaska Native	24.36%	75.64%
Black / African American	27.76%	72.24%
Hispanic	30.68%	69.32%
Asian	55.48%	44.52%
Hawaiian / Pacific Islander	30.82%	69.18%

2021 English Language Arts (ELA)

Demographic	%	%
White	46.96%	53.04%
Native American / Alaska Native	20.99%	79.01%
Black / African American	27.51%	72.49%
Hispanic	28.69%	71.31%
Asian	50.83%	49.17%
Hawaiian / Pacific Islander	31.58%	68.42%

2019 English Langage Arts (ELA)

Demographic	%	%
White	51.73%	48.27%
Native American / Alaska Native	25.68%	74.32%
Black / African American	32.16%	67.84%
Hispanic	32.69%	67.31%
Asian	51.96%	48.04%
Hawaiian / Pacific Islander	42.48%	57.52%

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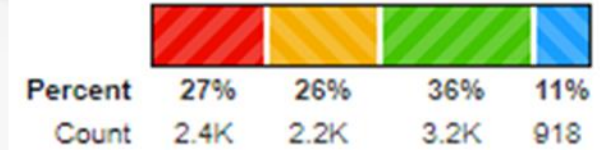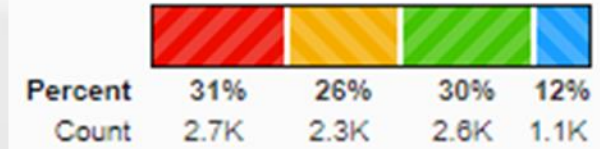**PUBLIC INSTRUCTION**

Math – by Demographic

2022-2023 ELA

- Raw grade level data from the CRS, raw meaning no accountability factors have been enabled.

- My estimate based on how raw data turns into reportable data, we will hold or see slight increase (compared to previous slides)
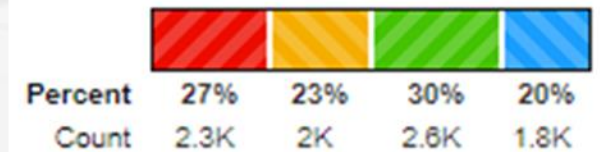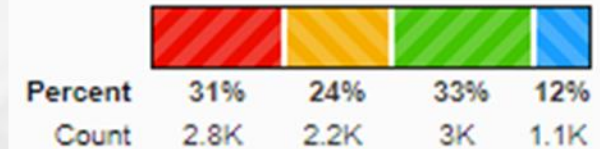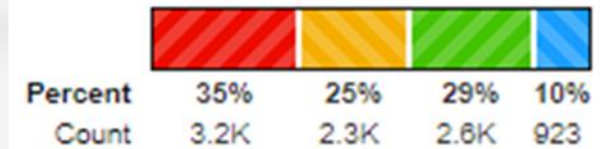
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Grade 8				
Percent	27%	26%	36%	11%
Count	2.4K	2.2K	3.2K	918

Grade 7				
Percent	31%	26%	30%	12%
Count	2.7K	2.3K	2.6K	1.1K

Grade 6				
Percent	27%	23%	30%	20%
Count	2.3K	2K	2.6K	1.8K

Grade 5				
Percent	31%	24%	33%	12%
Count	2.8K	2.2K	3K	1.1K

Grade 4				
Percent	35%	25%	29%	10%
Count	3.2K	2.3K	2.6K	923

Grade 3				
Percent	35%	25%	29%	12%
Count	3.2K	2.3K	2.7K	1.1K

Grade 10				
Percent	31%	25%	29%	15%
Count	806	631	748	388

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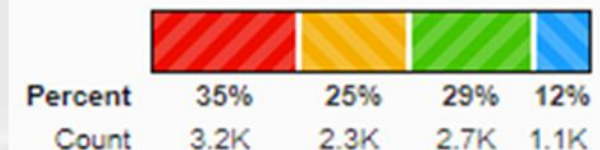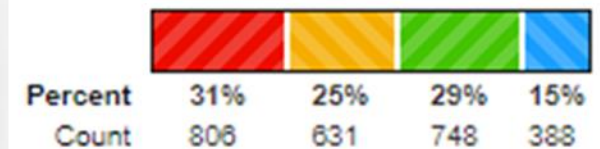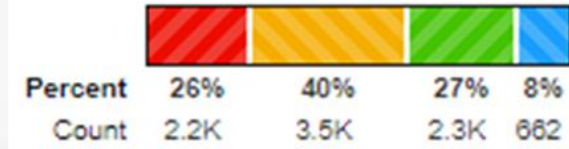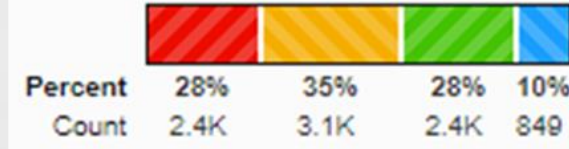
2022-2023 Math

- Same raw data as in ELA slide. Predicting a bigger climb back to pre-pandemic levels than ELA will see.

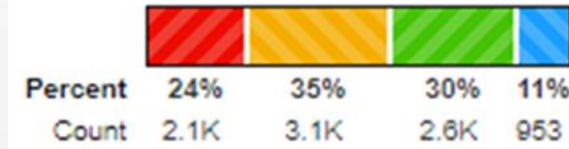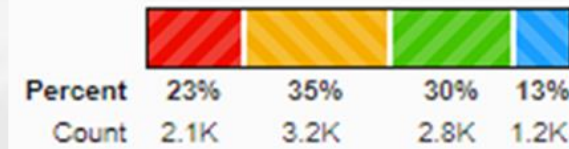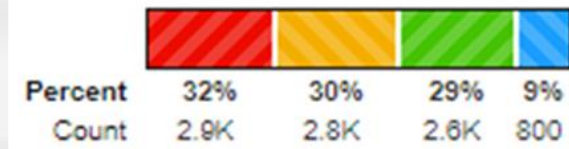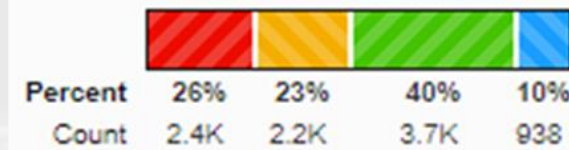- Districts can view this data in the CRS as soon as students finish their NDSA assessments.

Grade		Red	Orange	Green	Blue
Grade 8	Percent	26%	40%	27%	8%
	Count	2.2K	3.5K	2.3K	662
Grade 7	Percent	28%	35%	28%	10%
	Count	2.4K	3.1K	2.4K	849
Grade 6	Percent	24%	35%	30%	11%
	Count	2.1K	3.1K	2.6K	953
Grade 5	Percent	23%	35%	30%	13%
	Count	2.1K	3.2K	2.8K	1.2K
Grade 4	Percent	32%	30%	29%	9%
	Count	2.9K	2.8K	2.6K	800
Grade 3	Percent	26%	23%	40%	10%
	Count	2.4K	2.2K	3.7K	938
Grade 10	Percent	38%	33%	19%	10%
	Count	989	858	494	253

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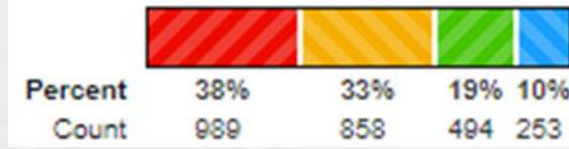
Date Sources, Levels, and Access

- NDSA specific data can be found in three main locations and all three have student demographic filters:
  1. ND Insights
     - Available to the public
     - State, district, school, grade level data (suppression rules applied)
     - Accountability rules applied for student achievement and growth

  2. STARS Reporting and Analytics
     - Superintendents auto-granted access, can give access to others in district
     - State, district, school, grade level, student data (no suppression rules)
     - Accountability rules applied

  3. Centralized Reporting System (CRS)
     - NDSA specific system, District Administrator decides who has access
     - State, district, school, classroom, grade, classroom, student level
     - No accountability rules applied, contains data for any student taking NDSA

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Statewide Learning Recovery

- The state student achievement graphs and data above show us on a path to pre-pandemic levels. The predictions being made on the raw NDSA data, will be fully calculated in coming weeks, show similar or slight improvement from last year. This story can and will be different for districts and schools.

- To get a different look at learning impact caused by pandemic and learning recovery, NDDPI partnered with a data analytic software company called SAS.

- The analysis conducted uses student projections, based on prior performance, and compares to actual performance. It is a complex and nuanced method (down to student level).

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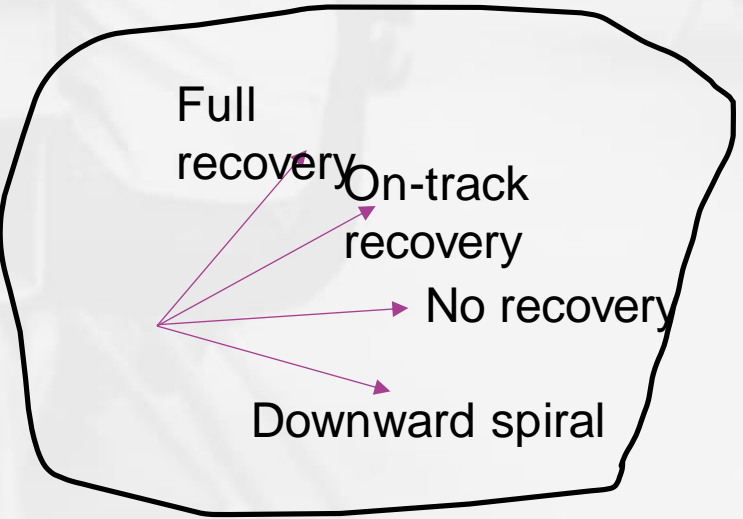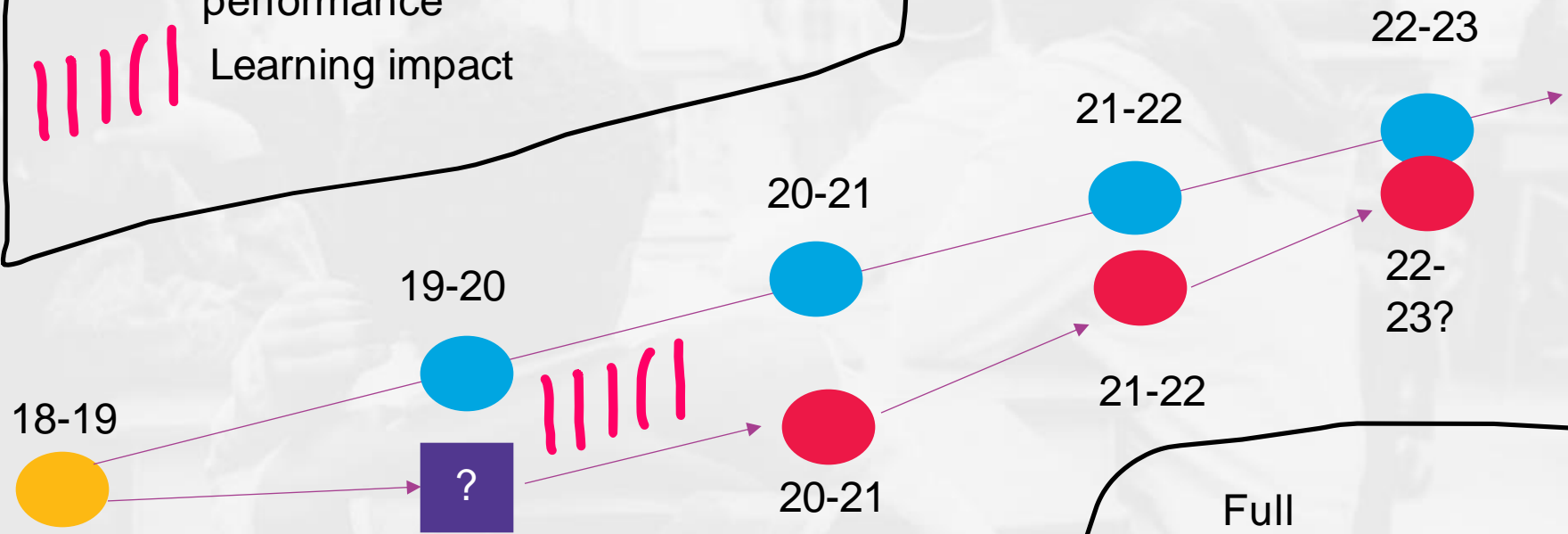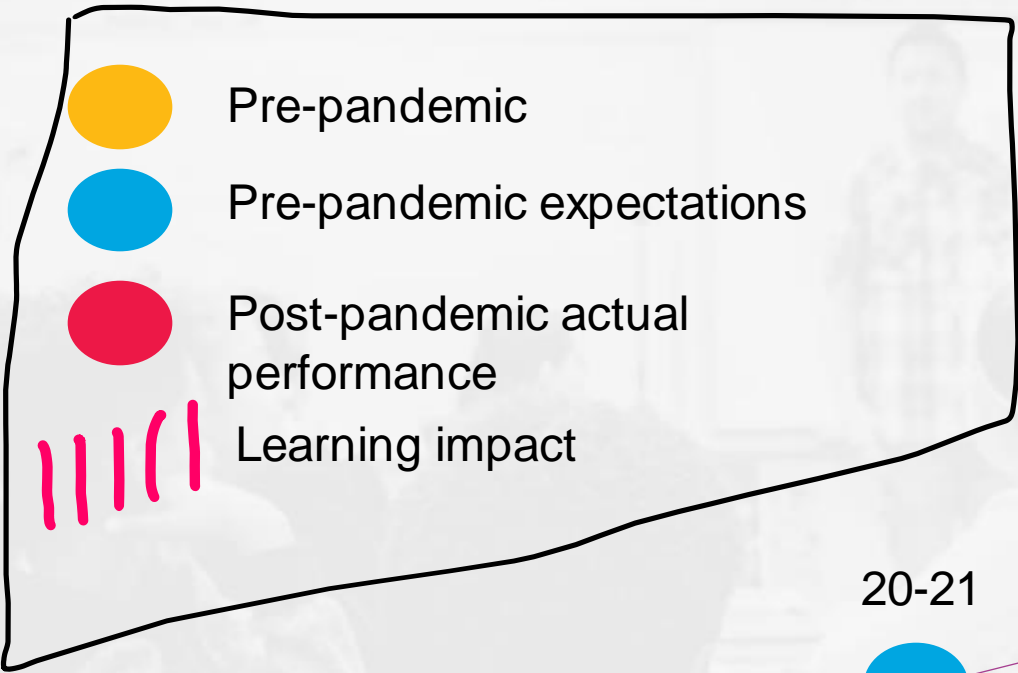
SAS Study Key Takeaways

- The 2021 report revealed that in ELA (grades 5-8, 10) students tended to score closer to pre-pandemic expectations than in Math. A negative learning impact was evidenced in both subjects.

- The 2022 report allowed us to add another set of assessment data Recovery could be measured with two post-pandemic data points. There was evidence of recovery toward pre-pandemic expectation in ELA grades 6 and 7 and Math grade 6. In contrast, ELA grades 8 and Math grades 7 and 8 showed students tending to fall further behind the pre-pandemic expectations.

- We did have schools and districts that continued to meet or exceed pre-pandemic expectations. 2022 report showed about 43% of schools achieved this in ELA and about 35% of schools achieved this in Math.

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Exemplar Districts

English Language Arts

Rank	District Name	Effect Size	N
1	Naughton 25	0.79604	6
2	Cavalier 6	0.42956	70
3	Hebron 13	0.38129	35
4	Wahpeton 37	0.38039	222
5	Anamoose 14	0.36939	10
6	Valley-Edinburg 118	0.35080	32
7	Hazelton-Moffit-Braddock 6	0.34186	26
8	North Star 10	0.31178	59
9	Central Valley 3	0.30812	44
10	Ellendale 40	0.28119	69

Math

Rank	District Name	District Code	Effect Size	N
1	Anamoose 14	25-014	0.67508	10
2	Hebron 13	30-013	0.65720	35
3	Naughton 25	08-025	0.54946	6
4	Wahpeton 37	39-037	0.40734	223
5	Central Valley 3	49-003	0.38321	44
6	Hankinson 8	39-008	0.33028	46
7	Richland 44	39-044	0.31261	52
8	Parshall 3	31-003	0.27596	48
9	Burke Central 36	07-036	0.27397	18
10	Midkota 7	20-007	0.24309	36

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District-Specific Handouts

- Each district that is attending the Bootcamp should have received a packet of information/data for their district.

- After reviewing, please feel free to reach out with questions or concerns at anytime.

- A lot of data and information for each district can be found on ND Insights, but some are the other nonpublic data systems. School and district leaders can and should be accessing this information.

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Closing

Questions can be directed to:

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