



# SYNTHESIZING SCHOOL PERFORMANCE DATA

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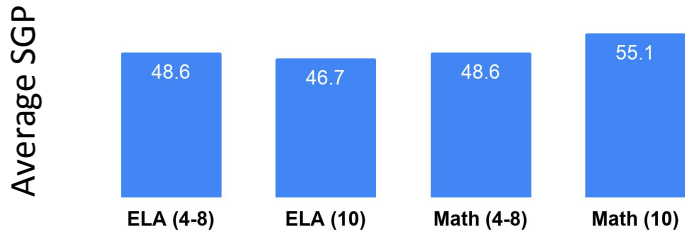
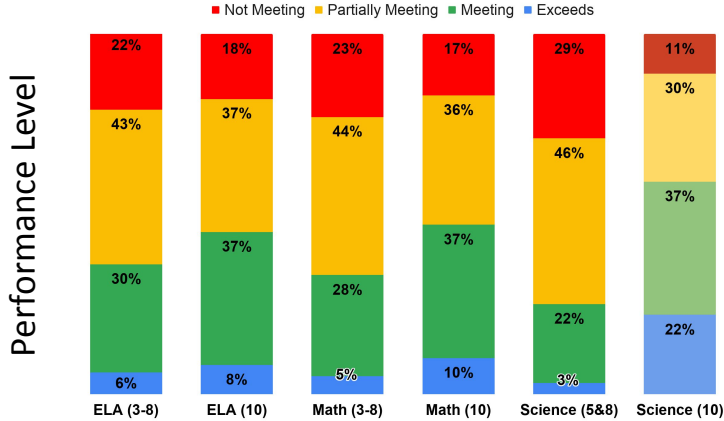
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December 11, 2019

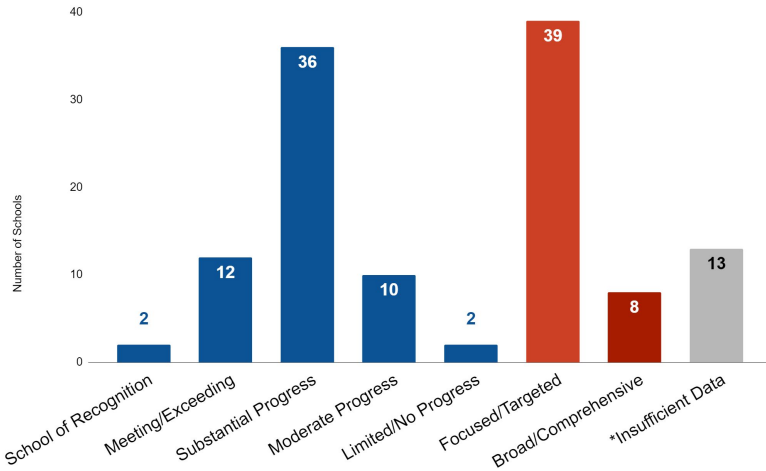
# 2019 MCAS Performance



## Key Data Insights

- More grade 3-8 students are Meeting Expectations since transitioning to Next Gen MCAS in 2017
- 10th graders struggled with the transition to Next Gen MCAS in 2019
- Typical growth (40-59) broadly observed
- Roughly a third of students are Meeting or Exceeding Expectations
- Significant achievement gaps persist and have widened in some areas
- Science remains an area of concern

# 2019 Accountability Results



## Key Data Insights

- 65% of schools improved relative to 2018 performance, as indicated by having a target percentage of 50%+
- 47 of 110 schools receiving an accountability designation require assistance and intervention
- 38 schools in the bottom 10% statewide
- Historically marginalized groups made less progress against targets than the district
- Increase in the annual dropout rate
- Worsening chronic absenteeism

### Schools by Reason Classified for Focused/Targeted Support

Among bottom 10% statewide	32
Low Graduation Rate	3
Low Student Group Performance	2
Low Participation Rate	2

# 2019 School Quality Framework Data

SQF Tier	2018 N Schools	2019 N Schools
1	41	26
2	19	29
3	21	21
4	20	24
No Tier	21	22

## ***Key Data Insights***

- In 2019, 55 Schools are Tier 1 or 2
- Compared to 2018:
  - 35 schools have the same tier
  - 25 schools improved
  - 40 schools declined
  - 22 schools have no tier designation

## ***Major implementation changes***

- Tier 4 override removed
- Science proficiency metric added
- Attendance → chronic absenteeism
- Reduced penalty for low climate survey participation

# 2020 Opportunity Index Data

Indicators included in the 2020-2021 OI Model			
	Elementary	Middle	High
<b>Neighborhood Factors</b>			
Academic Attainment	√	√	√
Foreign Born	√		
Median Household Income	√		
Physical Disorder	√		
Safety Issues		√	√
<b>Student Level Factors</b>			
Economically Disadvantaged	√	√	√
Public Housing	√	√	√
Recent Immigrant	√	√	
Residential Mobility	√		
Attendance (Absence Rate)		√	√
Course Failures (ELA and Math)			√
MCAS Failures (ELA and Math)			√
Number of Suspensions		√	√

*The OI is an innovative, equity-based tool that uses individual and place-based factors to quantify the opportunities students have and the challenges they may face, which have been shown to impact academic achievement.*

## ***Key Data Insights***

School OI scores range 0.16 to 0.91 on a 0-1 scale

### **Our students:**

- 10% reside in public housing
- 73% are economically disadvantaged
- 9% are recent immigrants
- 23% experienced at least one housing move in the past five years
- 6% were suspended in the past few years

### **In the past few years, the typical BPS student:**

- failed 25% of ELA and 32% of Math courses
- failed 24% of ELA and 31% of Math MCAS exams

# Measures for diagnostic analysis by data source

School Quality Framework	Accountability	State Assessment	Opportunity Index
<ul style="list-style-type: none"> <li>SQF tier</li> <li>SQF score</li> <li>Longitudinal tier change</li> <li>Student Performance</li> <li>Teaching &amp; Learning</li> <li>Family, Community, Culture</li> <li>Leadership &amp; Collaboration</li> </ul>	<ul style="list-style-type: none"> <li>Overall percentile</li> <li>Target percentage</li> <li>DESE designation</li> <li>Graduation rate</li> <li>Dropout rate</li> <li>Achievement percentiles</li> <li>Growth percentiles</li> <li>Chronic absenteeism</li> <li>Advanced coursework</li> <li>ELs making progress</li> </ul>	<ul style="list-style-type: none"> <li>Mean SGP</li> <li>Mean scaled score/CPI</li> <li>Results by grade level</li> <li>ACCESS SGPA</li> <li>ACCESS proficiency</li> </ul>	<ul style="list-style-type: none"> <li>Overall OI score</li> <li>Attendance</li> <li>Course and MCAS failures</li> <li>Public housing</li> <li>Recent immigrant</li> <li>Foreign born</li> <li>Academic attainment</li> <li>Median household income</li> <li>Safety issues</li> <li>Neighborhood spaces</li> </ul>
<b>Additional measures</b>	<ul style="list-style-type: none"> <li>Student demographic information</li> <li>Discipline</li> <li>Student mobility</li> <li>Grade retention</li> <li>Course passing</li> </ul>		<ul style="list-style-type: none"> <li>Homelessness</li> <li>Demand and enrollment</li> <li>Staffing demographic information</li> <li>Curriculum and assessment implementation</li> </ul>

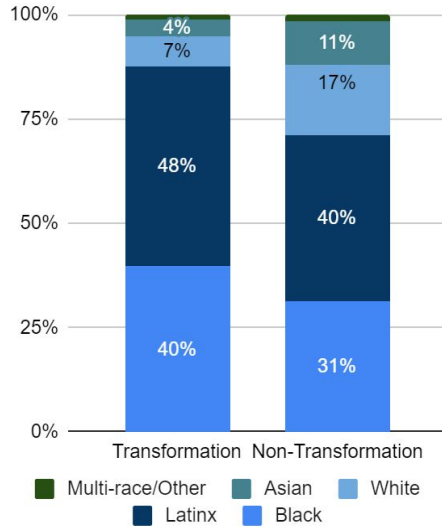
# Focus on Transformation Schools

*All schools are in the process of continuous improvement. We are focused on supporting 33 schools through a process of Transformation:*

- **6 schools** are “Underperforming,” which was previously referred to as “Turnaround” Status
- **27 schools** are in Focused-Targeted Support because they are in the bottom 10% statewide (excluding Horace Mann Charters and West Roxbury Academy)
- **2 schools** are “Chronically Underperforming” and currently in state receivership

School	2019 Percentile	Year of Receivership
Paul A Dever	8th	2014
UP Academy Holland	30th	2014

# Transformation Performance: Student Demographics



	Transformation	Non-Transformation
<b>Number of Students</b>	16,554	37,792
<b>Economically Disadvantaged</b>	84%	71%
<b>Students with disabilities</b>	27%	20%
<b>English Learners</b>	36%	26%
<b>Black</b>	40%	31%
<b>Latinx</b>	48%	40%
<b>White</b>	7%	17%
<b>Asian</b>	4%	11%
<b>Multi-race/Other</b>	1%	1%
<b>Retention rate</b>	4.2%	3.3%
<b>Chronic absenteeism rate</b>	33%	24%

## Key Data Insights for Transformation Schools

- Greater proportion of Black (40%) and Latinx (48%) students
- More SWD (27%), ELs (36%), and economically disadvantaged students (84%)
- Higher retention rate (4.2%) and chronic absenteeism rate (33%)



# Transformation Performance: State Assessment

		Transformation		Non-Transformation	
		Non-HS	HS	Non-HS	HS
MCAS Growth	ELA SGP	45	35	50	49
	Math SGP	44	40	49	58
MCAS Achievement	ELA Scaled Score/CPI	482	83	497	94
	Math Scaled Score/CPI	480	69	495	87
	Science Scaled Score/CPI	475	68	488	84
ACCESS For ELLs	SGPA	43	48	47	50
	% of ELs Making Progress	42%	31%	60%	35%

## ***Key Data Insights for Transformation Schools***

- Lower growth and achievement
- High school math growth is a particular area of concern
- ELs made significantly less progress in English acquisition

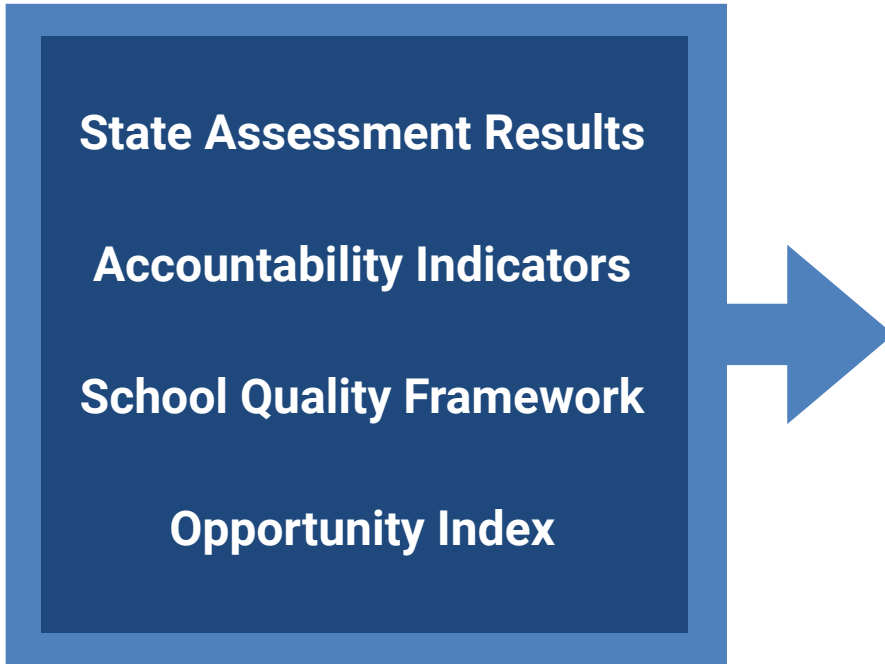
# Transformation Performance: Accountability, SQF, OI

		Transformation		Non-Transformation	
		N Schools	% Schools	N Schools	% Schools
Accountability	10th Percentile and Under	32	97%	6	9%
	Target Percentage below 50%	16	48%	21	28%
	Low Graduation (Under 66.7%)	4	44%	9	36%
SQF	Tier 4	15	45%	9	13%
Opportunity Index	Score Above 0.56	24	73%	29	33%
	Average OI Score	33	0.60	87	0.46

## ***Key Data Insights for Transformation Schools***

- 97% of schools are below the 10th percentile
- Half of schools not improving based on target percentage
- 44% of transformation high schools have low graduation rates
- More than three times as many SQF Tier 4 schools (45%)
- Substantially higher need concentration as measured by OI

# Support informed by multiple sources of information



**Across data sources, it is clear that some schools need additional intervention and support**

**MCAS:** Typical growth, however just over a third of students are meeting expectations

**Accountability:** 38 schools are in the bottom 10% of schools statewide

**SQF:** 24 schools are Tier 4

**OI:** Significant student and neighborhood need with varying concentration by school

# How data informs our planned interventions

<b>State Assessment</b>	<ul style="list-style-type: none"><li>● Prioritize academic interventions in all disciplines in middle and high school</li><li>● Emphasize elementary science and math implementation</li><li>● Adopt MassCore to align high school coursework with college and workforce expectations</li><li>● Develop standards-aligned curricular frameworks</li></ul>
<b>Accountability and SQF</b>	<ul style="list-style-type: none"><li>● Prioritize interventions in highest need schools</li><li>● Provide more intensive principal leadership training</li><li>● Provide instructional support for teachers and PD</li></ul>
<b>Opportunity Index</b>	<ul style="list-style-type: none"><li>● Implement Hub Schools strategy</li><li>● Align budget resources to strategic plan and highest need schools</li></ul>