



# Madison **STEAM** Academy

## School Improvement in Action

2 May 2018



# Agenda



**Comprehensive Needs Assessments**



**Madison's 6 Pillars of School Improvement**



**Progress Monitoring Data**



**Family Choice**



**Performance Benchmarks**





# **Comprehensive Needs Assessments**

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## September, 2015 AdvancED Report

*“During observations in classrooms and in all other areas of the campus, both inside and outside of the building, the diagnostic review team found students were mostly well-behaved and compliant. A number of stakeholders interviewed suggested that a well-managed school and classroom was a relatively new phenomenon, occurring over the past two years under the guidance of the current principal and her leadership team” (p. 11).*

*“Although the learning environment has been transformed into one that is more conducive for learning, there was little evidence that the faculty and staff have moved beyond management and fully embraced the notion of holding students to high academic standards or providing students with learning opportunities geared toward their individual strengths or areas of interest” (p.12).*

*Only 60% of the staff is trained in the use of data and/or data analysis, and only 73% of the staff members use student data to address the unique learning needs of the students*

# Comprehensive Needs Assessments

## SIG 2017-18 Renewal – Areas of Improvement (p.8)

- *Increase mentors for students*
- *Improve parent communication*
- *Increase 1st - 3rd year teacher training*
- *Implement cross grade-level meetings*
- *Increase teacher effectiveness via teacher-teacher collaboration & observation*
- *Increase data analysis*
- *Implement PBIS with fidelity*
- *Increase instructional leadership time for principal*
- *Decrease student suspensions and discipline referrals*

# Comprehensive Needs Assessments

## English/Language Arts ISTEP+ Performance

2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2017
44.7%	51.5%	29.3%	25.4%	26.7%
State Average 79.5%	State Average 80.7%	State Average 67.3%	State Average 66.1%	State Average 65.2%

# Comprehensive Needs Assessments

## IREAD-3 Pass Rate

2012 – 2013	2013 – 2014	2014 – 2015	2015 – 2016	2016 – 2017
76.2%	66.7%	67.1%	61.2%	58.0%
State Average 91.4%	State Average 91.1%	State Average 91.3%	State Average 89.8%	State Average 89.5%

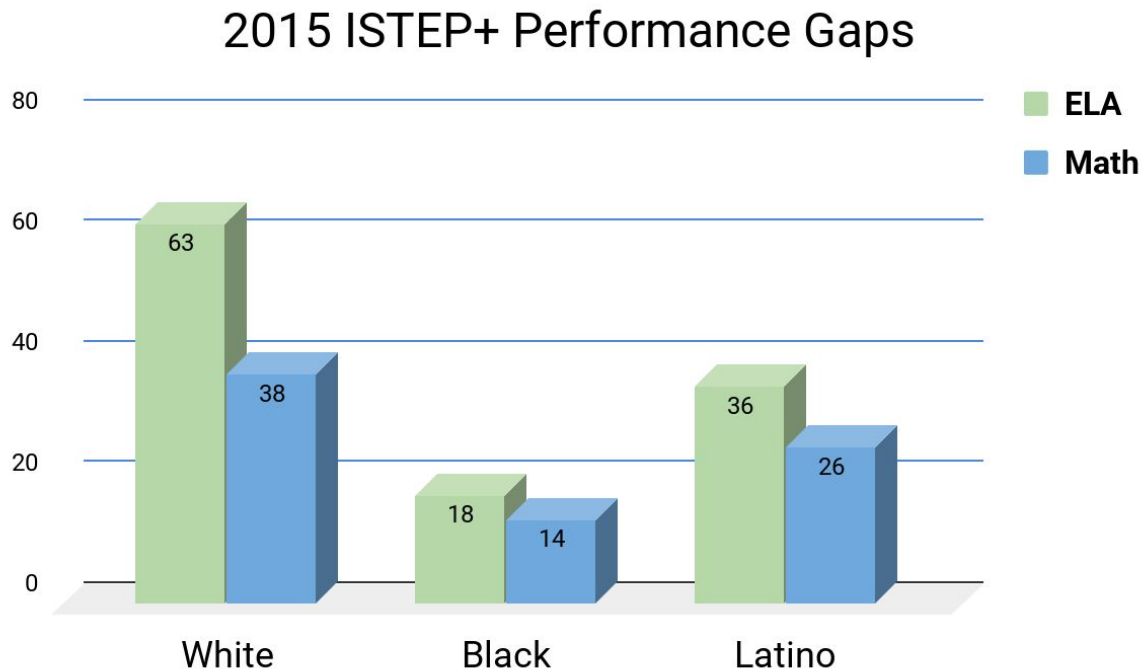
# Comprehensive Needs Assessments

## Math ISTEP+ Performance

2012 – 2013	2013 – 2014	2014 – 2015	2015 – 2016	2016 – 2017
38.3%	47.1%	21.4%	22.4%	18.2%
State Average 83.0%	State Average 83.5%	State Average 61.0%	State Average 58.9%	State Average 58.5%



# Comprehensive Needs Assessments



**SIG Application, Aug. 2016 (p. 14)**



# **Madison's 6 Pillars of School Improvement**

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# Madison's 6 Pillars of School Improvement



# Pillar 1 : Tier 1 Instruction that...

Holds high  
expectations for  
all students



Is differentiated,  
culturally responsive,  
and integrated with  
real-life STEAM  
experiences

Is Project  
Problem  
Place-based



Utilizes technology to  
support student  
exploration, critical  
thinking,  
collaboration, and  
creativity

# **Strategies and Progress for Pillar 1**

## **Increasing the effectiveness of Tier I instruction**

- **Providing Professional Development for**
  - **Responsive Classrooms**
  - **Differentiated Instruction**
  - **Visual Thinking Strategies**
  - **Focus Five (integrating fine arts in general curriculum)**
  - **Sheltered Instruction Observation Protocol**
- **Reviewing of self-designed, year-long, K-4 integrated cross curricular STEAM Units of Study**
- **Increased Principal Walk-Throughs**
- **Implementing Data Wise (a collaborative data inquiry process to drive continuous improvement of teaching and learning for all students via Harvard School of Education)**
- **Modeling by Instructional Specialists of best practices for teachers**

# **Pillar 2 : Empowering Students to...**

**Understand the  
standards to which  
they strive**



**Monitor their  
personal growth**



**Communicate the  
relationship between  
their engagement and  
their growth**



# Strategies and Progress for Pillar 2

Empowering students to own their learning and growth by developing their ability to use 1:1 technology as a tool to research, collaborate, gather information, and create

- All students utilize technology within each STEAM Unit of Study
- Students participate in at least one external expedition per unit of study
- Students make choices about presenting their learning
- Students communicate their data and areas where they need to grow
- Students engage in Data Talks and goal setting
- 3rd and 4th grade students participate in test talks while examining their data
- Students participate in cross-grade level mentoring and paired reading
- Students in the Ambassadors Club represent Madison STEAM Academy at community and parent events to build student leadership

# Pillar 3 : Developing Teacher Capacity for..

**Responsive  
Instruction**



**Reflective Practice**



**Leadership**





# **Strategies and Progress for Pillar 3**

## **Increasing teacher self-efficacy and developing teacher capacity**

- **Providing Professional Development for**
  - **Tier 1 instruction**
  - **Responsive Classrooms**
  - **Differentiated Instruction**
  - **Visual Thinking Strategies**
  - **Focus Five (integrating fine arts in general curriculum)**
  - **Data Analysis**
- **Obtained staff commitment to training and extended instructional day through MOU**
- **Fostering collaboration via grade level team meetings, discussions with other peers, and discussions with leadership**
- **Implementing teacher-to-teacher instructional coaching and professional development**
- **Implementing an Aspiring Leaders program (district level)**
- **Providing EL certification for teachers via partnership with Holy Cross**

# Pillar 4 : Increasing Principal Leadership in...

**Data Analysis**



**Developing  
action steps  
based on data**

**Monitoring the  
transformation  
process**



**Developing  
systems of  
shared  
leadership**

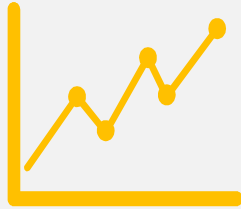
# Strategies and Progress for Pillar 4

## Increasing principal leadership

- Providing principal with an experienced school turnaround mentor
- Providing principal with an IDOE turnaround consultant
- Provided principal and school leadership with Data Wise training
- Providing district-level professional development
- Partnering with University of Notre Dame collaboration team to identify and provide supports for units of instruction
- Developed and monitoring School Improvement Plan (SIP) and School Improvement Grant (SIG)
- Providing district-level ELA facilitator support
- Providing Dean of Students to increase principal walk-throughs

# **Pillar 5 : Increasing Parent Engagement in...**

**Understanding  
and supporting  
their children's  
academic  
growth**



**Providing  
healthy,  
brain-supportive  
habits outside  
the school day**

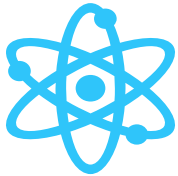
# **Strategies and Progress for Pillar 5**

## **Increasing parent engagement**

- **Implementing quarterly parent teacher conferences**
- **Implemented standards based report card**
- **Added Family and Community School Specialist position**
- **Increased Social Worker to full time**
- **Developing partnerships with housing complexes, community centers and the hospital to**
  - **Create off-site after school programs**
  - **Create parent goal setting classes**
  - **Provide instructional technology and support**
  - **Provide mental health services (EMBRACE)**
- **Distributing materials to support units of study to parents**
- **Developing outdoor learning areas in the adjacent city park**

# **Pillar 6 : Transforming to a STEAM Magnet to...**

**Provide students with continued access to STEAM curriculum and instruction across five grade levels**



**Decrease mobility and promote continuous school enrollment supported by district busing**



**Ensure balanced diversity and meet the requirements of the United States Department of Justice Consent Decree**



# Strategies and Progress for Pillar 6

Transforming the school into a district STEAM magnet and model for systemic change

- Developed community partnerships that increase relevant and engaging student learning experiences
- Implemented a standards-based report card, 1st-4th grade
- Implemented a 1:1 technology integration model
- Instruction with integrated STEAM units of study across all curricular areas, K-4
- Created Notre Dame Engineering Week, K-4
- Applying Visual Thinking Strategies to develop critical thinking skills
- Partnering with the SNITE Museum of Art to integrate art and literacy
- Reducing mobility rate by adding district wide magnet transportation



# ***Progress Monitoring Data***

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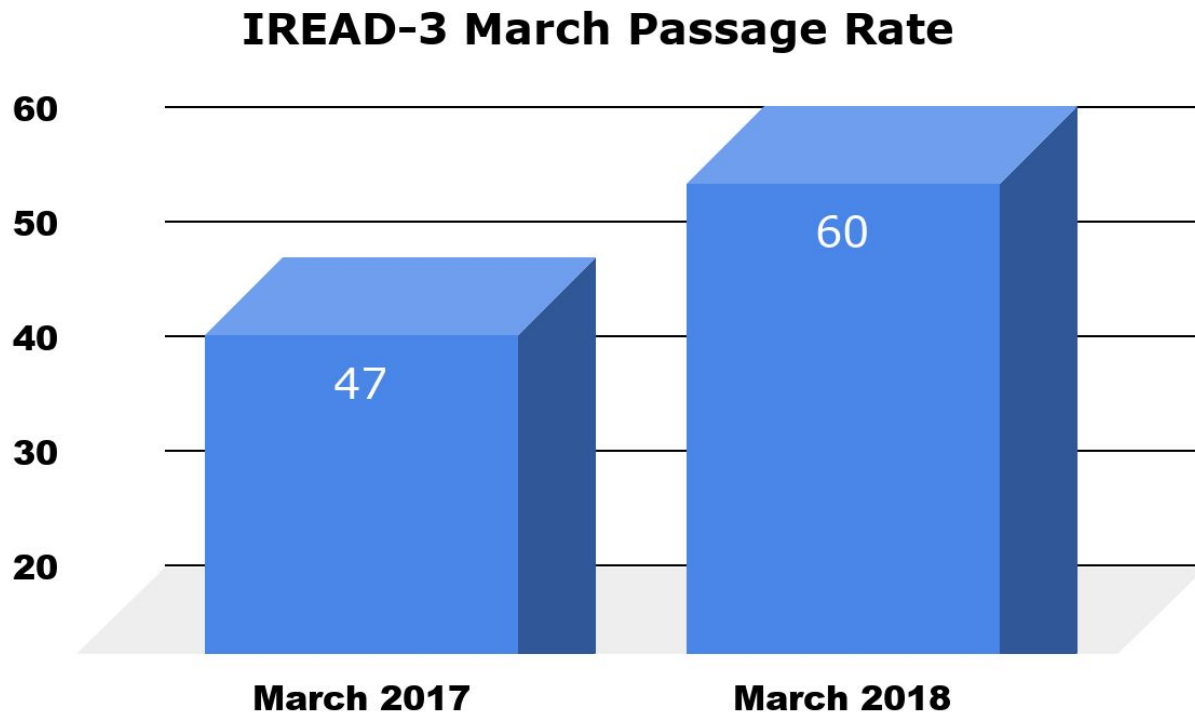




# IREAD-3 Data

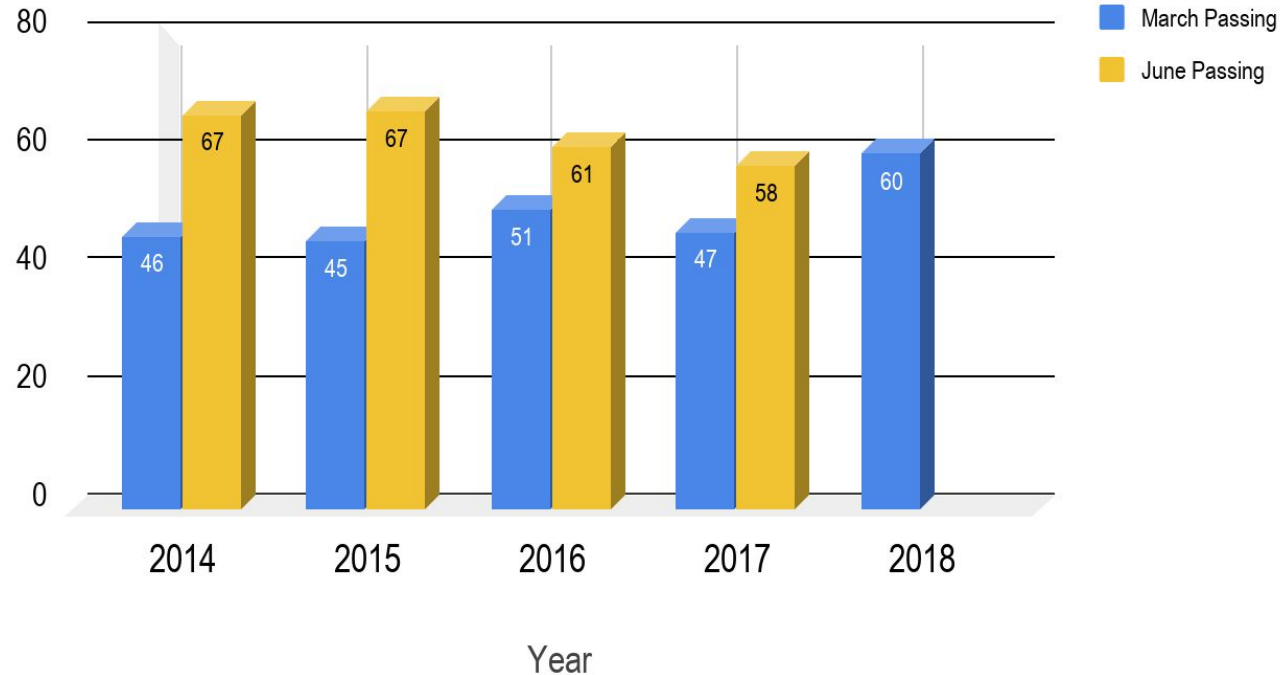
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# IREAD-3 March 2017 vs March 2018



# IREAD-3 March vs June

Comparison of IREAD-3 March and June Pass Rates





# WIDA Data

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# Average WIDA Scores by Domain

Average Scores



English Language Learner Population = 10.8%

# Average WIDA Overall Scores by Grade

	2017	2018
Grade	Average Overall	Average Overall Score
0	1.2	1.7
1	2.2	2.9
2	3.3	3.4
3	2.9	3.5
4	3.2	4.2
School Overall Score	2.9	3.3

English Language Learner Population = 10.8%



# NWEA Data

# 2017/18 Progress Monitoring (NWEA)



Grade 2	Baseline BOY	Projected Growth MOY	Actual Growth MOY
Reading	160.1	9.1	6.7
Math	164.5	8.8	9.8



# 2017/18 Progress Monitoring (NWEA)



**Reading**



**Language**



**Math**

Grade 3	Baseline BOY	Projected Growth MOY	Actual Growth MOY
Reading	173.1	7.5	9.3
Language	172.4	7.8	8.7
Math	177.5	6.9	8.0

# 2017/18 Progress Monitoring (NWEA)



**Reading**



**Language**



**Math**

Grade 4	Baseline BOY	Projected Growth MOY	Actual Growth MOY
Reading	179.1	5.5	8.8
Language	180.7	6.0	7.4
Math	186.0	5.4	5.6



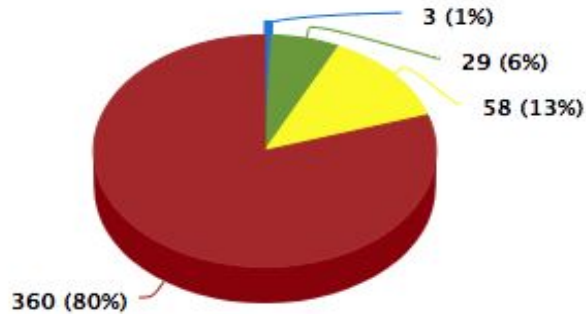
# *MindPlay/MVRC Data*

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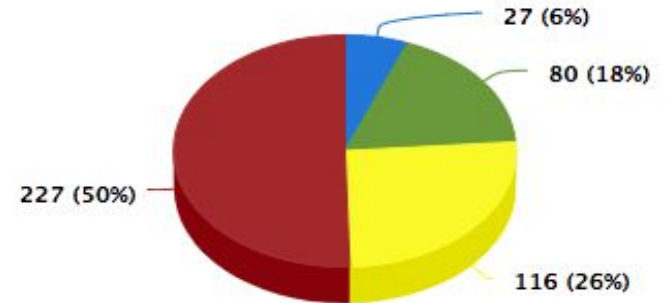
# 2017/18 Progress Monitoring (MVRC)

Whole School MVRC Dates 09/13/17-4/14/18

First Test



Last Test



Exceeding Meeting Approaching Critical

Exceeding Meeting Approaching Critical

The pie graphs represent the first and last test for each student given between 9/13/2017 - 4/19/2018

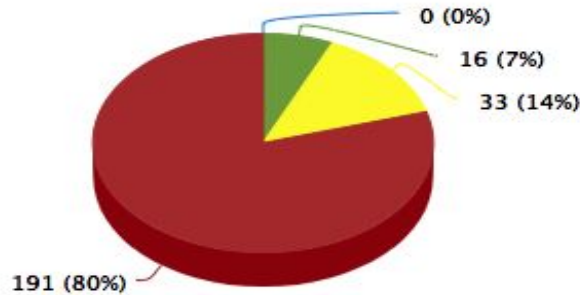
Average Grade Level Improvement



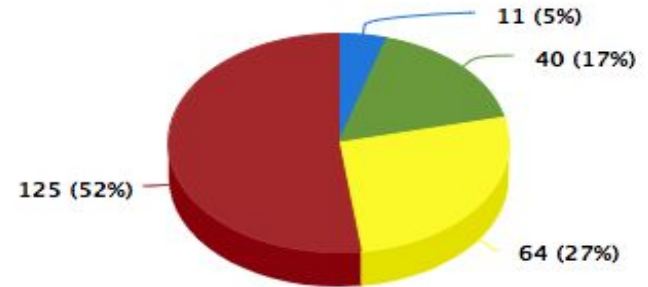
# 2017/18 Progress Monitoring (MVRC)

**African American Students MVRC Dates 09/13/17-4/14/18**

First Test



Last Test



Exceeding Meeting Approaching Critical

Exceeding Meeting Approaching Critical

The pie graphs represent the first and last test for each student given between 9/13/2017 - 4/18/2018

Average Grade Level Improvement

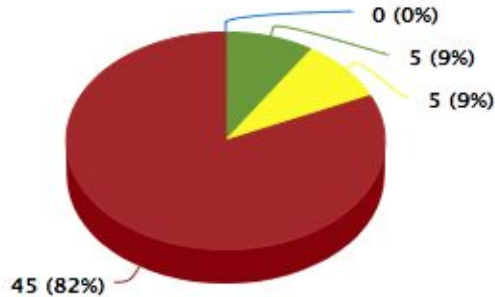


On average, grade 2+ students gained 0.63 grade levels over this time period.

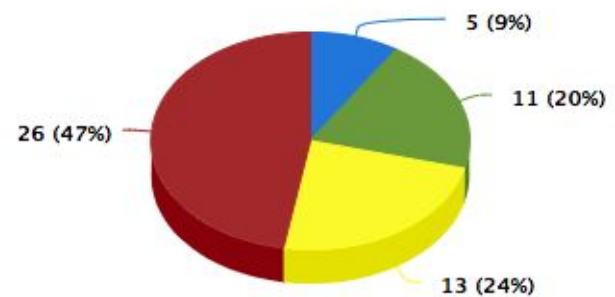
# 2017/18 Progress Monitoring (MVRC)

English Language Learners MVRC Dates 09/13/17-4/14/18

First Test



Last Test



Exceeding Meeting Approaching Critical

Exceeding Meeting Approaching Critical

The pie graphs represent the first and last test for each student given between 9/15/2017 - 4/12/2018

Average Grade Level Improvement

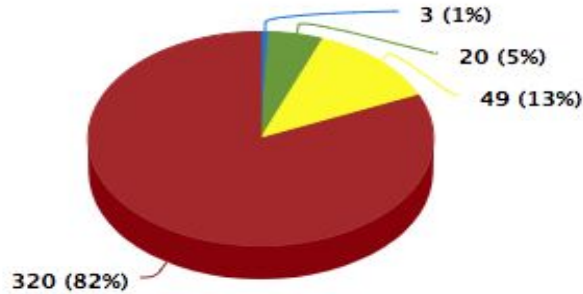


On average, grade 2+ students gained 1.30 grade levels over this time period.

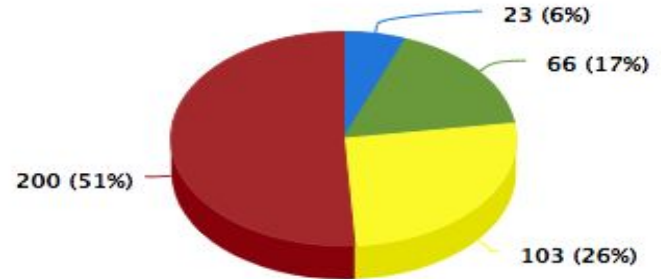
# 2017/18 Progress Monitoring (MVRC)

Student who receive Free Lunch MVRC Dates 09/13/17-4/14/18

First Test



Last Test



Exceeding Meeting Approaching Critical

Exceeding Meeting Approaching Critical

The pie graphs represent the first and last test for each student given between 9/13/2017 - 4/18/2018

Average Grade Level Improvement



On average, grade 2+ students gained 0.85 grade levels over this time period.

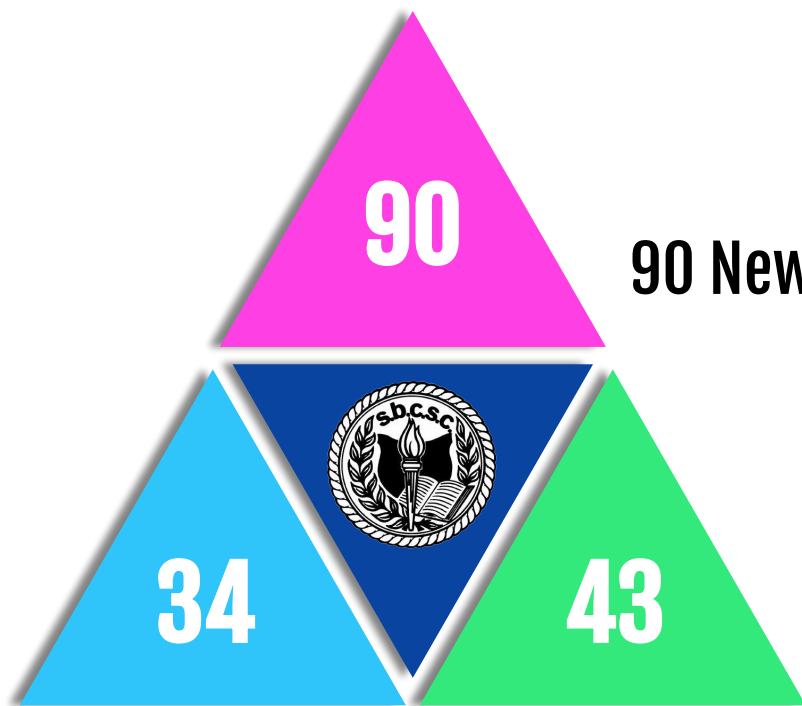


# Family Choice



# SBCSC Families Choose Madison STEAM Academy

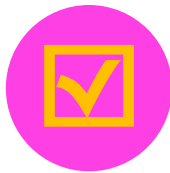
**Program Demand  
Exceeded Space!**



**90 New student Applicants!**

**34 Caucasian**

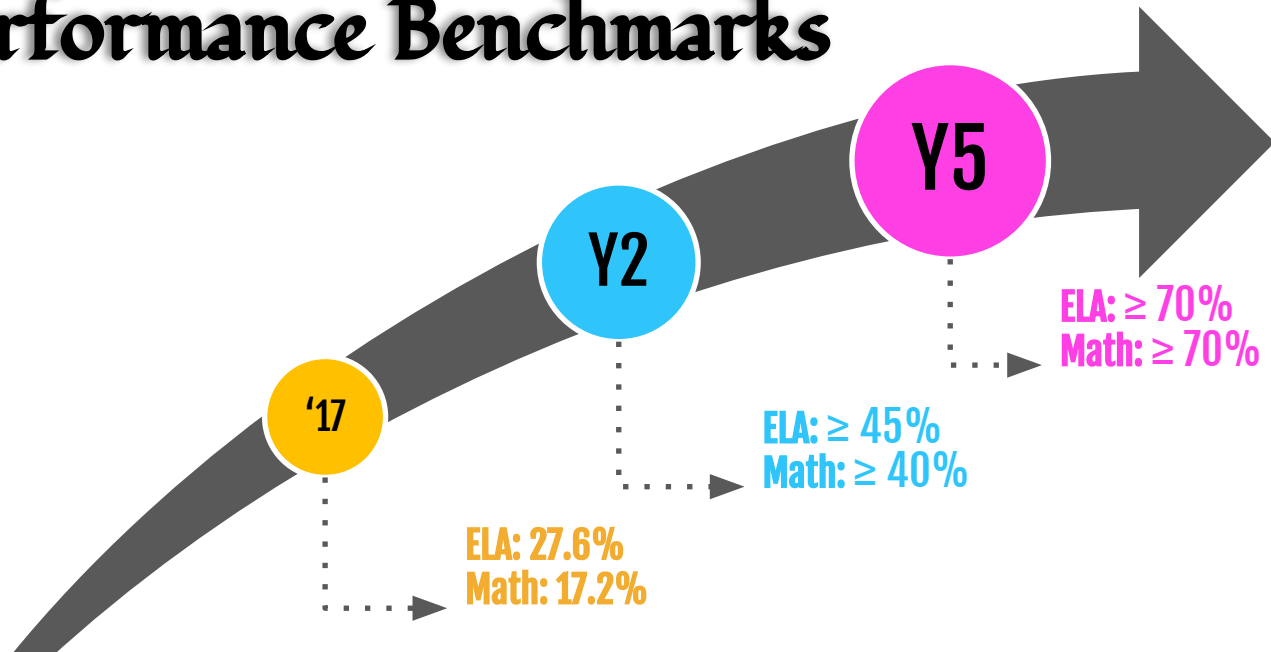
**43 African American**



# Performance Benchmarks

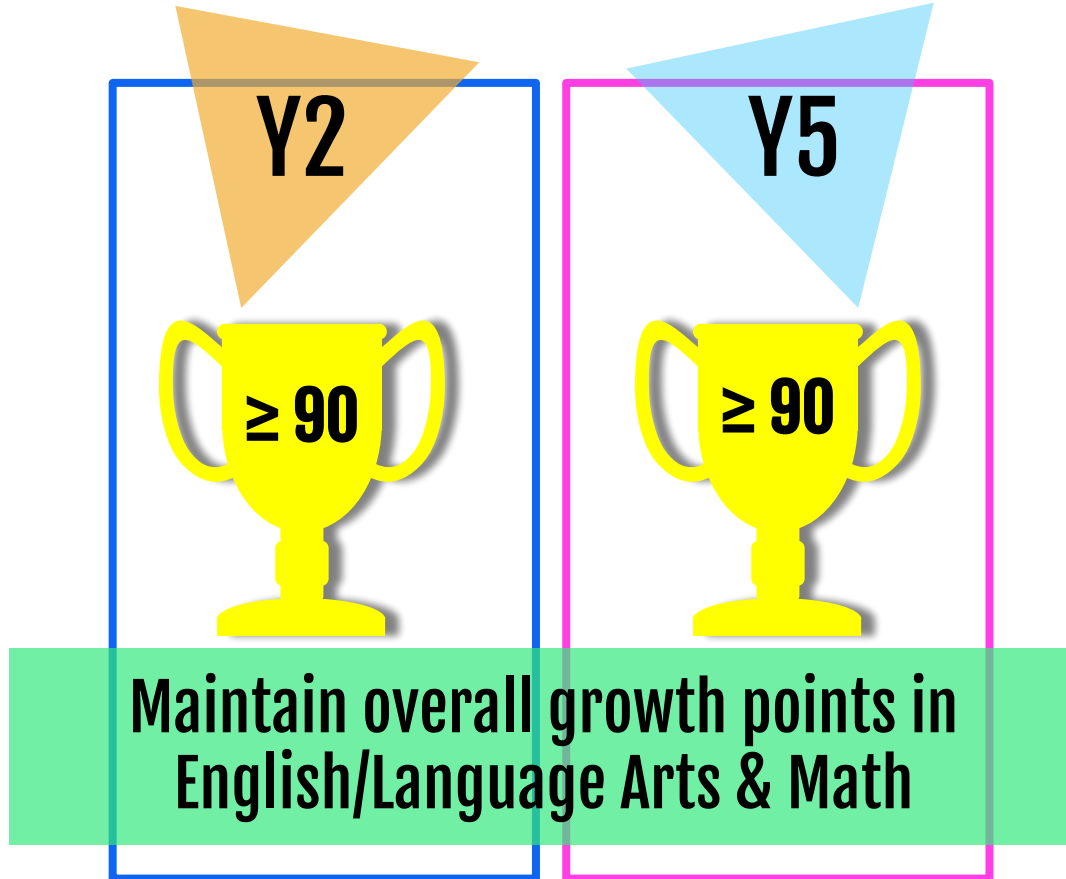
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# Performance Benchmarks

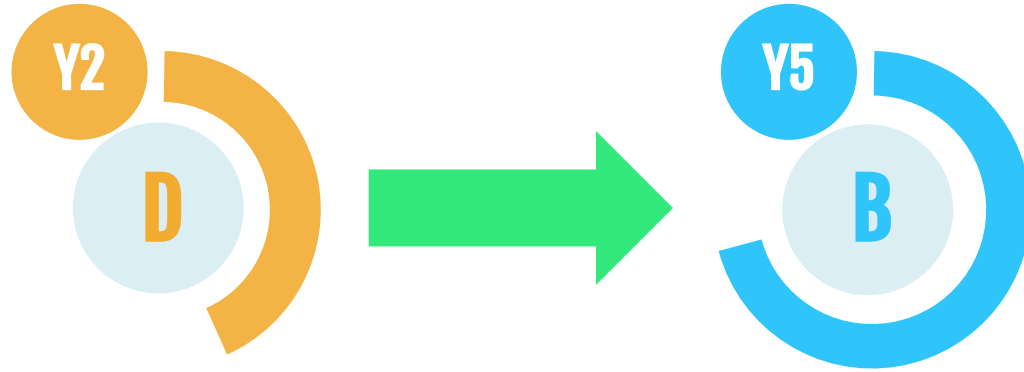


Performance Domain	2017	2019	2022
Increase the percentage of students, enrolled for 162 days or more, who are proficient on the state ELA assessment	27.6%	$\geq 45\%$	$\geq 70\%$
Increase the percentage of students, enrolled for 162 days or more, who are proficient on the state Math assessment	17.2%	$\geq 40\%$	$\geq 70\%$

# Benchmarks for Student Success

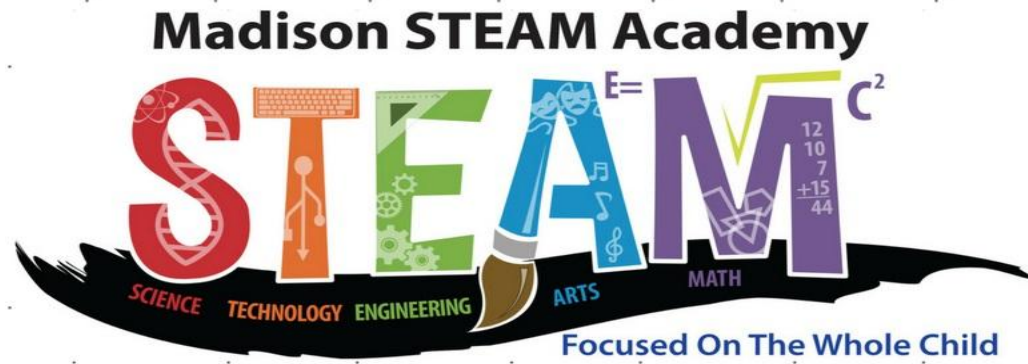


# Performance Benchmarks for Student Success



Overall Summary	Year 2	Year 5
Increase Overall Grade	D	B





# Thank You!

## Questions?

