English Language Arts 2017 and 2018 Achievement

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### Science Technology & Engineering

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English Language Arts - Strengths

- **Grade 5 High Growth Rates** (Mean SGP: 58.6, state is 50.1)
- Gr. 5 Standards: Using evidence from text to support author’s purpose or to support a character trait or identifying how events affect a character all 10 points or greater than state average
- Gr. 3 and 4 Vocabulary standards (determining meaning of words in a passage/context) all 10 points or greater than state average
- Gr. 3 did considerably better on multiple choice and short answer, outperforming state average on all questions
English Language Arts - Areas of Focused Growth

- Grade 3 Essay - typing challenges - Write a narrative describing what may happen next in the story RO Gr. 3 39%, State 33%.
- Grade 3 Essay - Write an essay that explains how the author uses text features to help reader understand the topic - RO Gr. 3 21%, state 23%

- Subgroup - ‘Students with Disabilities’
  - Grade 3 - 85% of our 41 students in this subgroup did not ‘meet expectations’ in ELA
  - Grade 4 - 80% of our 48 students in this subgroup did not ‘meet expectations’ in ELA
  - Grade 5 - 76% of 54 students in this subgroup did not ‘meet expectations’ in ELA
English Language Arts - Opportunities

- Use of STAR360 Assessment as a screening tool
- EVERY Grade 3 - 5 student reading below grade level, based on all assessment data, is receiving Leveled Library Intervention (LLI) everyday - 45 minute small group intensive instruction from reading interventionist or special education teacher is IN ADDITION to small group instruction from classroom teacher.
- Each grade level now works as three ‘pods’ of four classrooms, with embedding reading interventionists, learning specialists and paraprofessionals
  - Pods meet to review student data weekly
- Adoption of Benchmark Assessment System (BAS) to determine the instructional and independent reading levels of every student
- RO doubled the size of its leveled library, with funds raised from BoosterThon.
- Creation of shared reading leveled library
- ELA Units of Study under construction
Mathematics Strengths

- Grade 3 to Grade 4 - High Growth Rates
  - 48% of these students achieved ‘high’ or ‘very high’ growth
  - Grade 4 mean SGP in math was 55.8 (67% of 252 students met or exceeded expectations)

- Grades 4 Domain: Geometry: 71% possible points vs. State: 54% (+18%)
  - Number and Operations (Fractions) RO: 74% vs. State: 62% (+12%)
  - Measurement and Data RO: 75% vs. State: 64% (+11%)

- Grade 3 Domain: Number and Operations: 77% possible points vs. State: 63%

- Grade 5 Domain: Measurement and Data: 58% possible points vs. State 47%
Mathematics - Areas of Focused Growth

● Subgroup - ‘Students with Disabilities’
  ○ Grade 3 - 69% of our 41 students in this subgroup did not ‘meet expectations’ in Math
  ○ Grade 4 - 69% of our 48 students in this subgroup did not ‘meet expectations’ in Math
  ○ Grade 5 - 82% of 54 students in this subgroup did not ‘meet expectations’ in Math

● Grade 5 - 38% of fifth graders had ‘low’ or ‘very low’ growth rates in Math
● New Math Program: Bridges to Mathematics and Intervention Program a bigger challenge for fifth graders
Mathematics - Opportunities

- Positive Results from Year 1 of Bridges to Mathematics
- STAR360 is giving us screening data for possible intervention students
- Math interventionists teaching alongside classroom teachers in grades 3 and 4
- Purchase of online subscription of Freckle provides differentiated, adapted math practice
- Number corner provides daily practice of foundational skills
- Problem of the week - common rubric across school for problem solving
- Team teaching spreading at RO
- Math Units of Study under construction
Gr. 5 Science, Technology, Engineering - Strengths

- 7% more students in ‘advanced’ or ‘proficient’ than 2017
- Open response 10% higher than state average (16 possible points)
- Physical Science - 72% of possible points vs. 63% state avg.
Science, Technology, Engineering - Areas of Focus

- Transition to Next Generation Science Standards
- Transition to more inquiry-based science
- K-5 Science Curriculum Sub-Committee formed, planning new pilot programs
- More focus on the process of science than content
- Problem-solving, critical thinking, collaboration IN ADDITION to concepts
- Life sciences, physical sciences, engineering, technology - BLENDED/AUTHENTIC
Science, Technology, Engineering - Opportunities

- Fifth grade teachers to begin writing STE Curriculum units this year
- Many teachers have had extensive professional development with the new standards and use of resources like Betterlesson.com and Mystyrsience.com
- Greater focus the past 5 years on STEM education is producing more curious students who like to find out how things work and like to design/invent
Summary

- Overall Richardson Olmsted School received 90% of possible points, resulting in a classification of ‘meeting targets’ for 2018.

- OUR students - Systems of communication and collaboration, as well as new individualized assessments and progress monitoring tools, are being created and developed to integrate interventionists, learning specialists and paraprofessionals like never before to meet the individual needs of all students.
  
  ■ See what it looks like in the classroom.…
The classroom of our present and future.

What are the teachers doing?

What are the students doing?
Another look at systematic, targeted, small group instruction and learning.
EASTON MIDDLE SCHOOL
MCAS Analysis
Spring 2018
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# Mathematics Achievement 2017 & 2018

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ELA ~ All students group met the 2018 achievement target

ELA growth rate of 56.3% met the 2018 achievement target
- Gr. 6 growth rate 61.6%
- Gr. 7 growth rate 50.7%
- Gr. 8 growth rate 56.8%

Standards:
- Gr. 6 Language - conventions of standard English and essay writing all 10 points or more higher than state average
- Gr. 8 Language - Vocabulary acquisition and use & reading - Craft and structure all 10 points or more higher than the state average

ELA students with disabilities growth rate 59.2%

2018 ELA Cohort Data:
- Exceeding Expectations Gr. 6 increased by 14%
- Exceeding Expectations Gr. 8 increased by 9%
English Language Arts
Areas of Focused Growth

- Lowest performing students improved but below target
- Students with disabilities
  - 56% Partially meeting expectations
  - 29% Not meeting expectations
- Economically disadvantaged students
  - 47% Partially meeting expectations
  - 19% Not meeting expectations
English Language Arts Opportunities

- New Star 360 screening and Progress Monitoring
- New Schedule with built-in Intervention/FOCUS period
- 1 Part-time ELA Interventionist
- Co-Taught Language based pilot in Gr. 7 ELA
- Co-Taught ELA in grades 6,7,8
- Explore 4 person team pilot in Gr. 6
- Re-evaluating special education small group instruction
Mathematics Strengths

- Math ~ All students group met the 2018 target
- Economically disadvantaged students exceeded the target
- Math growth 56.3% exceeding the growth target
  - Gr. 6 Growth 59.1
  - Gr. 7 Growth 57.8
  - Gr. 8 Growth 50.1
- Math standards:
- 10% greater than the state average is the expectation
  - Analyzing and solve linear equations (+15) and patterns of association in bivariate data (+12) improved from an area of focus in 2017
Mathematics
Areas of Focused Growth

● Lowest performing subgroup improved but below target

● Math students with disabilities declined in 2018
  ○ 65% Partially meeting expectations
  ○ 25% Not meeting expectations
Mathematics Opportunities

- New Illustrative math program this year
- New Star 360 screening and progress monitoring
- New schedule with built-in Intervention/FOCUS
- Two part-time math Interventionist
- Balanced class sizes
- Co-Taught math in grades 6,7,8
- Explore new ways to better utilize staff
- Re-evaluating special education small group instruction
- Common planning time
Science, Technology & Engineering - Strengths

- All students met the 2018 target
- Students with Disabilities exceeded the 2018 target
- Standards 10% or more above state average:
  - Earth and Space Sciences (+11)
    - Earth’s place in the universe (+14)
  - *Life Science (+13)
    - Biological Evolution (+12)
    - Ecosystems (+11)
    - Molecules to Organisms (+17)
    - Heredity (+15)
  - *Technology/Engineering- Materials Tools and Manufacturing (+10)

*targeted for improvement in 2017
Science, Technology & Engineering - Areas of Focus

● Students with disabilities
  ○ 51% Partially meeting expectations
  ○ 25% Not meeting expectations

● 2% of the students scored advanced

● Meeting targets on all areas but room for growth
  ○ 41% of students not meeting expectations
Science, Technology & Engineering - Opportunities

- **Currently the STE MCAS is in transition**
  - Transition to new science standards
  - Transition to a more skill based assessment
- **Departmental meetings created to allow for vertical dialog**
  - Emphasis on the progression of the standards within a topic
  - Vertical alignment of curriculum
  - Creation of common assessments in all grades
- **New schedule**
  - Increased intervention opportunities
  - Balanced class sizes
- Professional development in the area of differentiated instruction in grade seven and eight
Summary

● Middle School Schedule
  ○ For the first time, EMS offers a unified, developmentally appropriate middle school schedule which embraces teaming and allows for increased intervention opportunities for all students.

● Intervention and Progress Monitoring
  ○ Star 360 provides teachers with a tool to screen and progress monitor students who need intervention. The data will help guide the tier I interventions. Additional interventionists are needed to support our lowest performing students with both tier II and tier III intervention.