



# Manchester Essex Regional School District Fall Data Presentation

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November 7, 2017

# High School PISA Scores 2015

**Table 1.** How your average PISA scores compare with the average PISA scores of U.S. schools like yours: 2015

Comparison Group	Science literacy				Reading literacy	Mathematics literacy
	Overall	Evaluate	Explain	Interpret		
U.S. average	▲	▲	▲	▲	▲	▲
<b>U.S. schools like yours:</b>						
Public schools	▲	▲	▲	▲	▲	▲
All small-sized schools with less than 500 students	▲	▲	▲	▲	▲	▲
All schools with more than 0% but less than 10% students whose first language is not English	▲	▲	▲	▲	▲	▲
All schools with a similar proportion ( <25 percent) of students eligible for National School Lunch Program	▲	▲	▲	▲	▲	▲
All schools located within a suburb*	▲	▲	▲	▲	▲	▲

**How your average PISA scores compare with the comparison group:**

- ▲ Your average score is higher
- Your average score is not measurably different
- ▼ Your average score is lower
- † Not applicable/data not available

# AP Scores 2017

## AP<sup>®</sup> Current Year Score Summary (2017)

This report lists the total numbers of each score (1 to 5) for each AP subject and the total number of unique students for each AP score.

✓ Data Updated Oct 4, 2017, Report Run Nov 2, 2017

Disciplines : All Disciplines

Manchester Essex Regional High School (221315)

Total AP Students in Your School: 128

School Totals for this View	5	4	3	2	1	Total Exams
Number of Exams	81	87	84	50	11	313
Percentage of Total Exams	26	28	27	16	4	100
Number of AP Students	47	65	68	40	9	

Subject Totals	5	4	3	2	1	Total Exams
Studio Art: 2-D Design Portfolio	2	1				3
English Language and Composition	8	13	4	1		26
English Literature and Composition	15	5	1			21
Comparative Government and Politics	1	2	4	10	3	20
European History		1				1
Psychology	9	7	3	1	1	21
United States Government and Politics	14	7	10	6	2	39
United States History	7	9	21	8	1	46
World History			1			1
Calculus AB	6	8	8	2		24
Computer Science A	2	3	5	2		12

# AP Scores 2017

Disciplines : All Disciplines

Manchester Essex Regional High School (221315)

Subject Totals	5	4	3	2	1	Total Exams
Statistics	6	4	1			11
Biology	2	7	1	1		11
Chemistry			9	12	4	25
Physics C: Mechanics	2	6	4	5		17
French Language and Culture	2	2	7	2		13
German Language and Culture	1					1
Spanish Language and Culture	2	8	3			13
Spanish Literature and Culture	2	4	2			8

# SAT Scores 2017

## **SAT: 99 students**

- Reading/Writing: 605
- Math: 600
- Average: 1205

## **ACT: 56 kids (this number keeps increasing)**

- English: 26.3
- Math: 26.0
- Reading: 26.3
- Science: 24.1
- Composite: 25.8 (20.8 is national average)

# MCAS 2017

- Background and Information
- Legacy vs. Next-Generation
- Grades 3-8 vs. High School

# “Next-Generation” MCAS

- Computer-based
- Stronger alignment to the Massachusetts learning standards
- New item types that more deeply assess both skills and knowledge
- Sends clear signals to students, parents, and educators about readiness for work at the next level

# What will be reported in 2017?

- Performance on all accountability indicators
  - MCAS achievement, MCAS growth, ACCESS growth, graduation rates, dropout rates, dropout reengagement
- Progress & Performance Index (PPI) data
- School percentiles
- Accountability & assistance levels (1-5)
- Schools identified for low or very low assessment participation
- Schools identified for persistently low graduation rates
- High school (grades 9-12, not administering Next-Generation MCAS)

# What is the Next-Generation MCAS?

- Updated version of the nearly 20-year-old MCAS assessment
- Focuses on students' **critical thinking abilities, application of knowledge**, and ability to make **connections between reading and writing**
- Gives a **clearer signal of readiness** for the next grade level or college and career
- Designed to be given on a **computer** (though paper versions remain available)
- First given in **spring 2017** in grades 3-8 in English language arts and math
- Will eventually replace all older (“legacy”) MCAS tests in grades 3-10

# MCAS Achievement Levels

## ★ Legacy

### **Advanced**

Students at this level demonstrate a comprehensive and in-depth understanding of rigorous subject matter, and provide sophisticated solutions to complex problems.

### **Proficient**

Students at this level demonstrate a solid understanding of challenging subject matter and solve a wide variety of problems.

### **Needs Improvement**

Students at this level demonstrate a partial understanding of subject matter and solve some simple problems.

### **Warning**

Students at this level demonstrate a minimal understanding of subject matter and do not solve simple problems.

## ★ Next-Generation

### **Exceeding Expectations**

A student who performed at this level exceeded grade-level expectations by demonstrating mastery of the subject matter.

### **Meeting Expectations**

A student who performed at this level met grade-level expectations and is academically on track to succeed in the current grade in this subject.

### **Partially Meeting Expectations**

A student who performed at this level partially met grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should consider whether the student needs additional academic assistance to succeed in this subject.

### **Not Meeting Expectations**

A student who performed at this level did not meet grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should determine the coordinated academic assistance and/or additional instruction the student needs to succeed in this subject.

# Achievement Score Descriptions

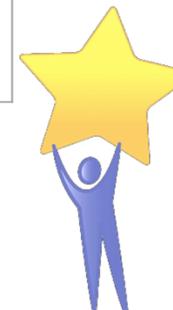
## 2017 MCAS Achievement Scores

### ★ Legacy

<b>Advanced</b>	260-280
<b>Proficient</b>	240-258
<b>Needs Improvement</b>	220-238
<b>Warning</b>	200-218

### ★ Next-generation

<b>Exceeding Expectations</b>	530-560
<b>Meeting Expectations</b>	500-529
<b>Partially Meeting Expectations</b>	470-499
<b>Not Meeting Expectations</b>	440-469



# Example of Score Reporting

Name: Doe, Jonathan H.  
SASID: 1234567890

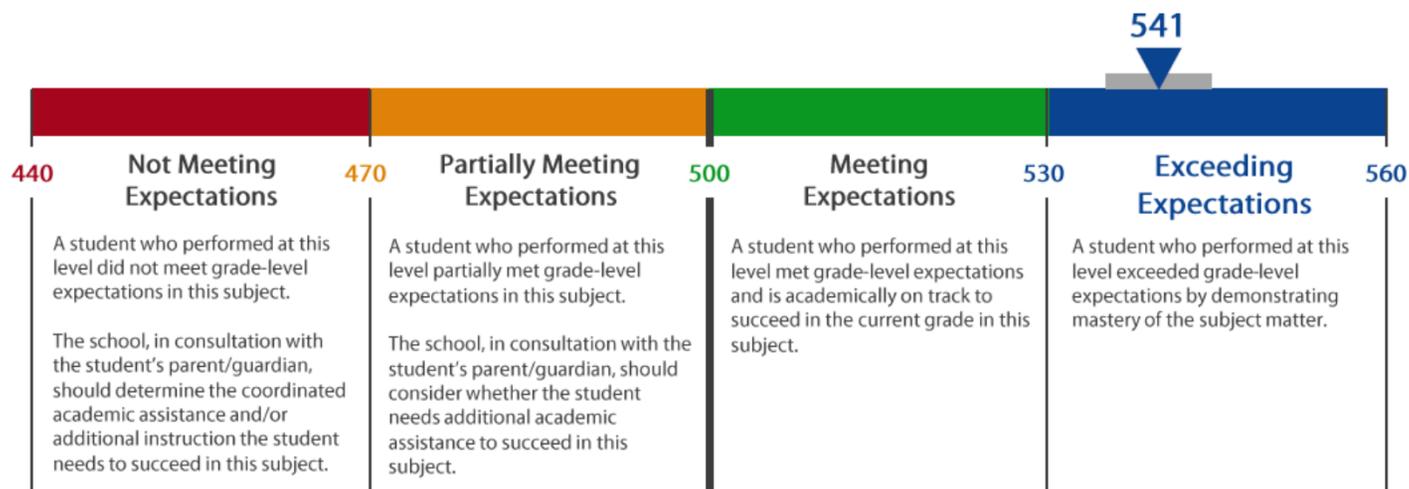
Grade 8  
Spring 2017

## Mathematics Results

Computer-based test

Your Child's Achievement Level: **Exceeding Expectations**

Your Child's Score: **541**



In the figure above, the triangle indicates your child's score on the test. The gray bar shows the range of likely scores your child would receive if he or she took the test multiple times.

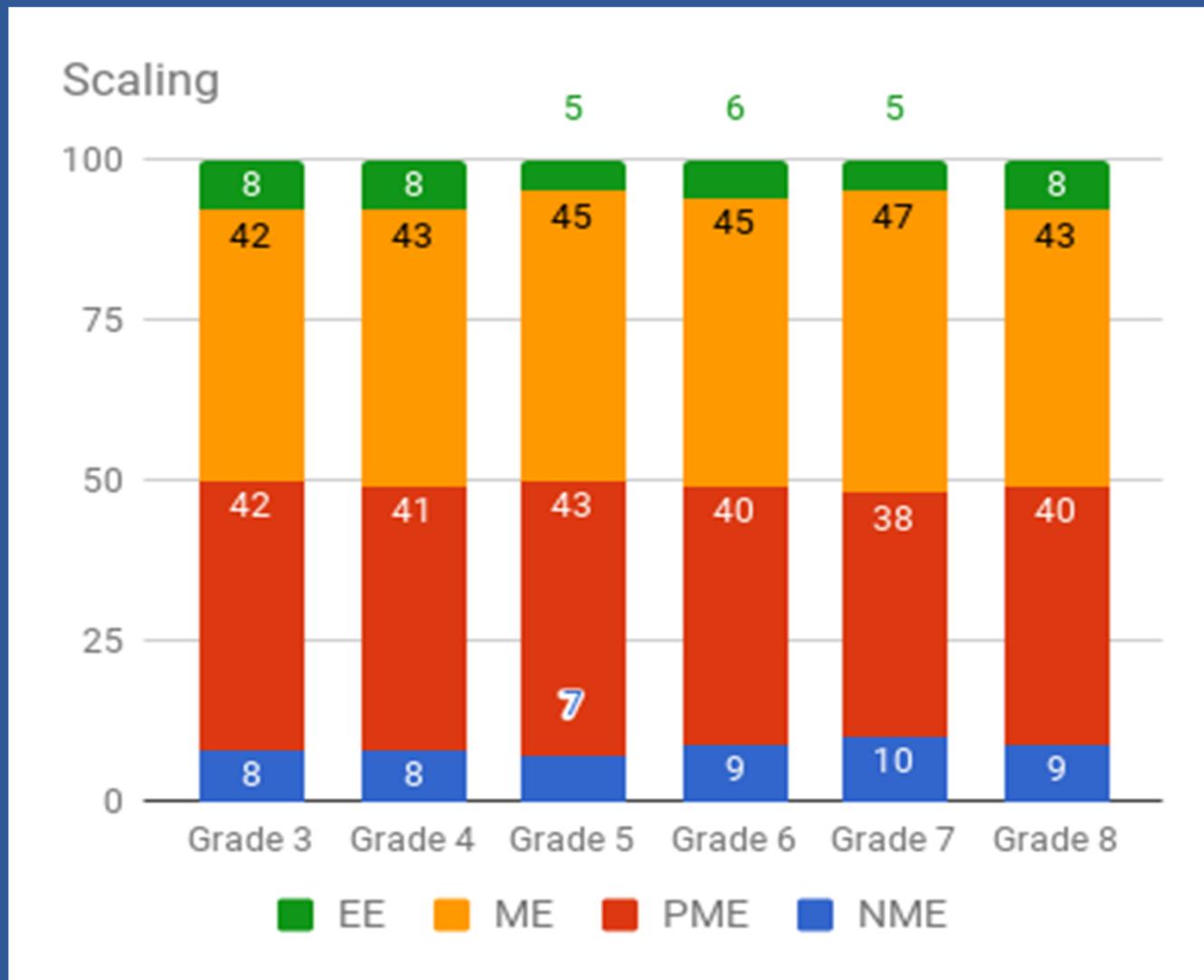
### How your child performed compared to the school, district, and state

Your Child's Score	Average Score		
	School	District	State
<b>541</b>	<b>485</b>	<b>502</b>	<b>515</b>

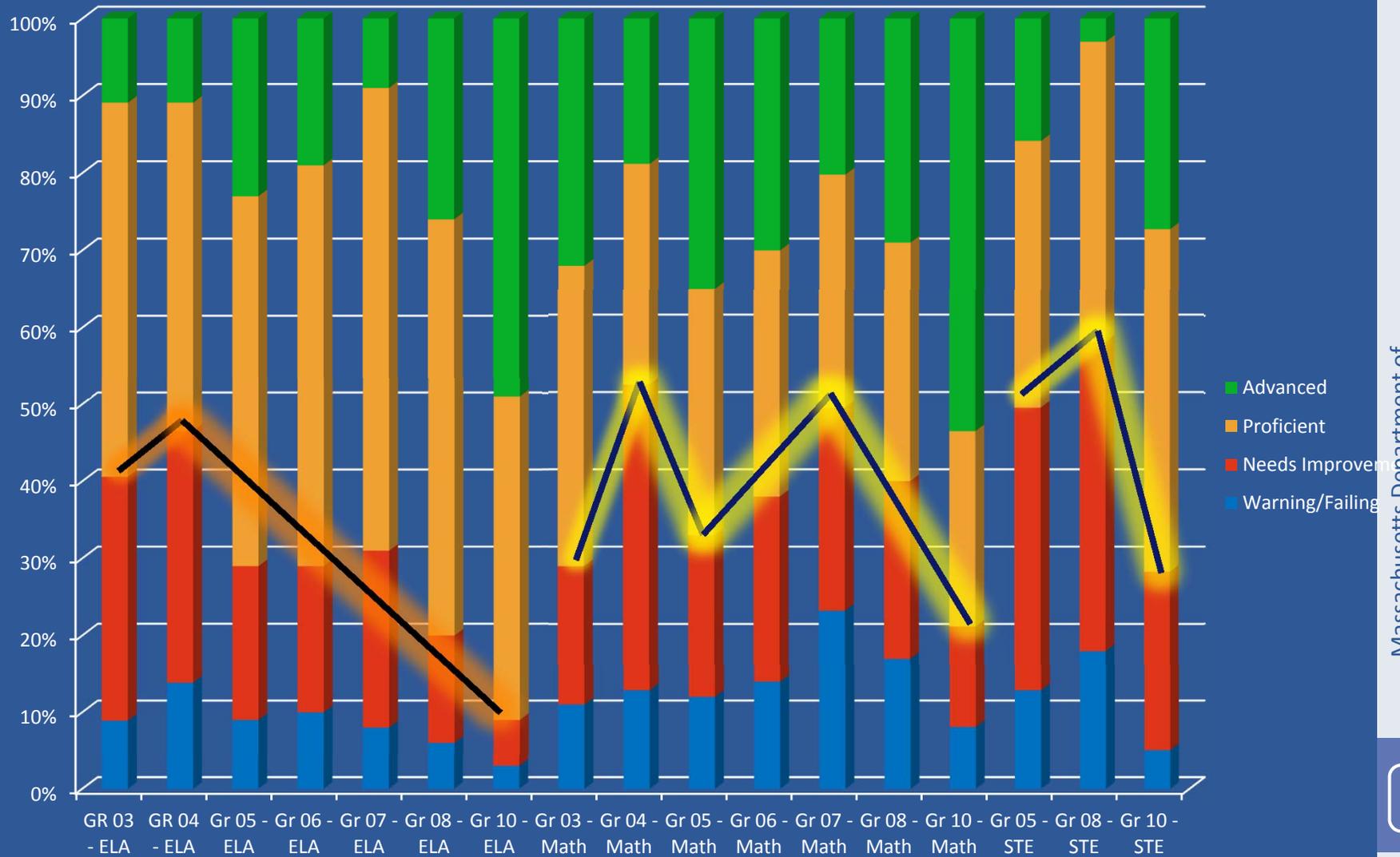
## Why Did My Child Score Proficient on the Older MCAS but Only Partially Meeting Expectations This Year?

- In general, the new standards for Meeting Expectations are **more rigorous** than the standards for reaching the Proficient level on the legacy MCAS.
- **Massachusetts educators** set the new standards to help **signal students' readiness** for the next grade level.
- **Look closely at where your child's score falls** within the Partially Meeting Expectations category. If it isn't close to Meeting Expectations, talk with your child's teacher about how you can work together to help your child catch up.
- Spring 2017 is a **baseline year** for a new test in grades 3-8, and spring 2017 scores **should not be compared** to previous years' scores.

# Projected Statewide 2017 Results for Grades 3-8 ELA and Math: Percent of students in each achievement level



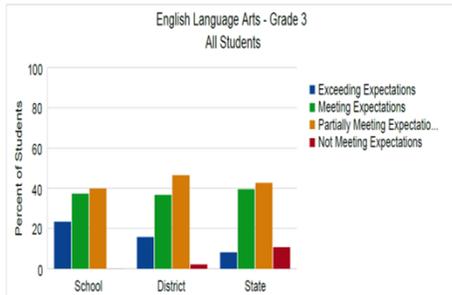
# ...and Less Like Legacy MCAS Results (2015)



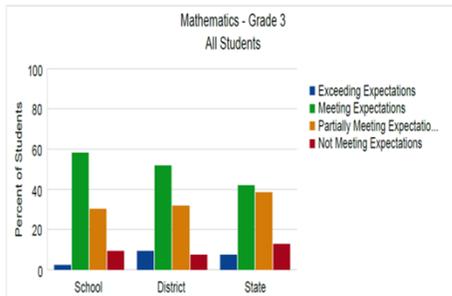
# Essex Elementary School Data

## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	10	23	15	8
Meeting Expectations	16	37	36	39
Partially Meeting Expectations	17	40	46	42
Not Meeting Expectations	0	-	2	10
Total Included	43			

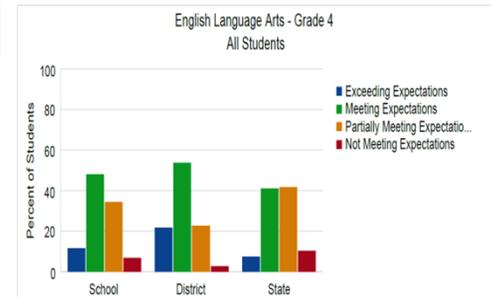


Mathematics	N Included	% School	% District	% State
Exceeding Expectations	1	2	9	7
Meeting Expectations	25	58	52	42
Partially Meeting Expectations	13	30	32	38
Not Meeting Expectations	4	9	7	13
Total Included	43			

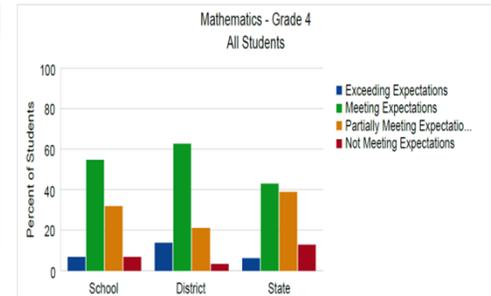


## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	5	11	22	7
Meeting Expectations	21	48	54	41
Partially Meeting Expectations	15	34	22	42
Not Meeting Expectations	3	7	2	10
Total Included	44			

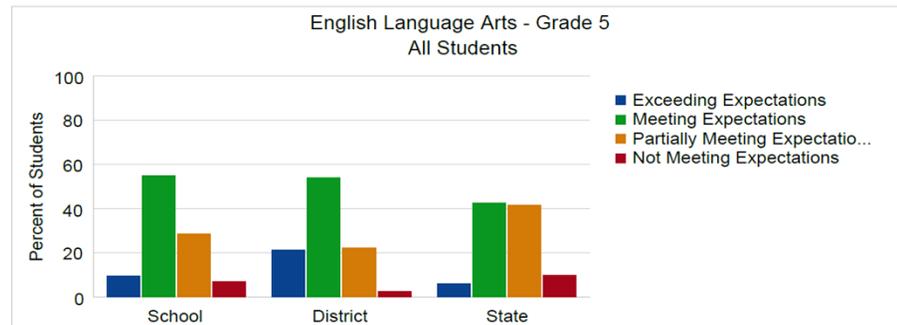


Mathematics	N Included	% School	% District	% State
Exceeding Expectations	3	7	14	6
Meeting Expectations	24	55	62	43
Partially Meeting Expectations	14	32	21	39
Not Meeting Expectations	3	7	3	13
Total Included	44			

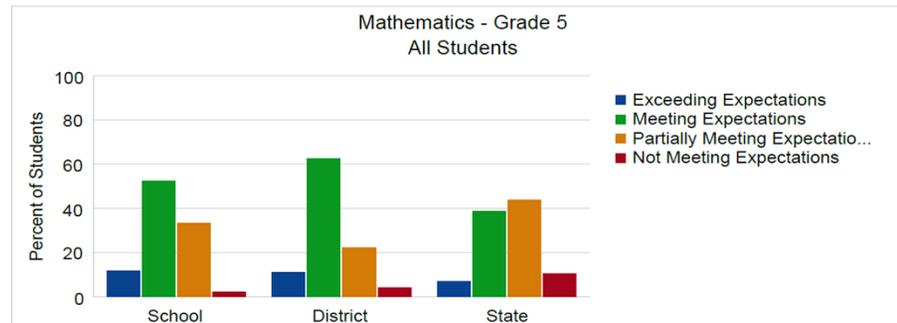


# Essex Elementary School Data

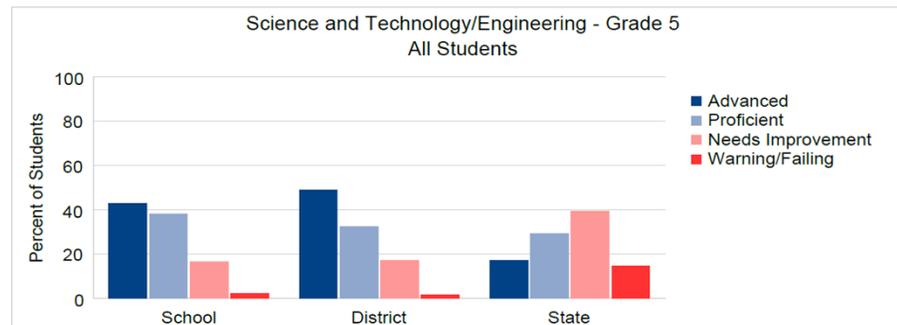
English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	4	10	21	6
Meeting Expectations	23	55	54	43
Partially Meeting Expectations	12	29	22	42
Not Meeting Expectations	3	7	3	10
Total Included	42			



Mathematics	N Included	% School	% District	% State
Exceeding Expectations	5	12	11	7
Meeting Expectations	22	52	62	39
Partially Meeting Expectations	14	33	22	44
Not Meeting Expectations	1	2	4	10
Total Included	42			



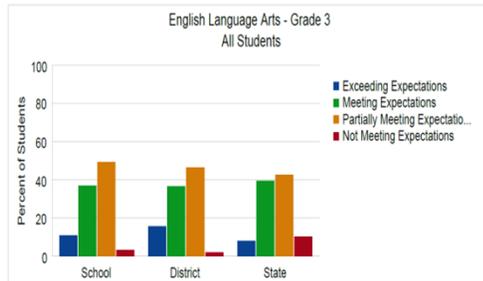
Science and Technology/Engineering	N Included	% School	% District	% State
Advanced	18	43	49	17
Proficient	16	38	32	29
Needs Improvement	7	17	17	39
Warning/Failing	1	2	2	15
Total Included	42			



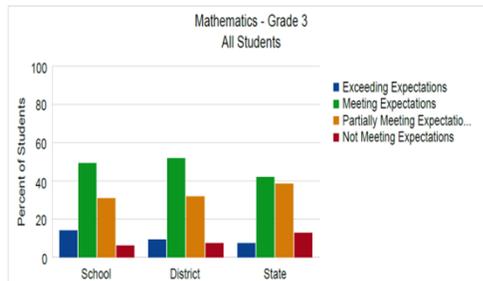
# Memorial School Data

## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	7	11	15	8
Meeting Expectations	24	37	36	39
Partially Meeting Expectations	32	49	46	42
Not Meeting Expectations	2	3	2	10
Total Included	65			

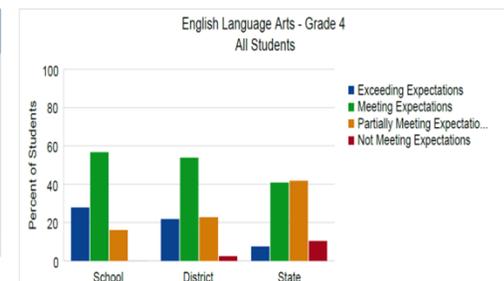


Mathematics	N Included	% School	% District	% State
Exceeding Expectations	9	14	9	7
Meeting Expectations	32	49	52	42
Partially Meeting Expectations	20	31	32	38
Not Meeting Expectations	4	6	7	13
Total Included	65			

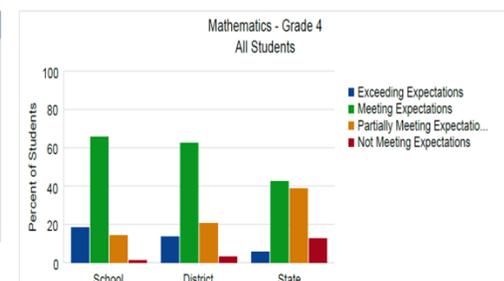


## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	21	28	22	7
Meeting Expectations	43	57	54	41
Partially Meeting Expectations	12	16	22	42
Not Meeting Expectations	0	-	2	10
Total Included	76			

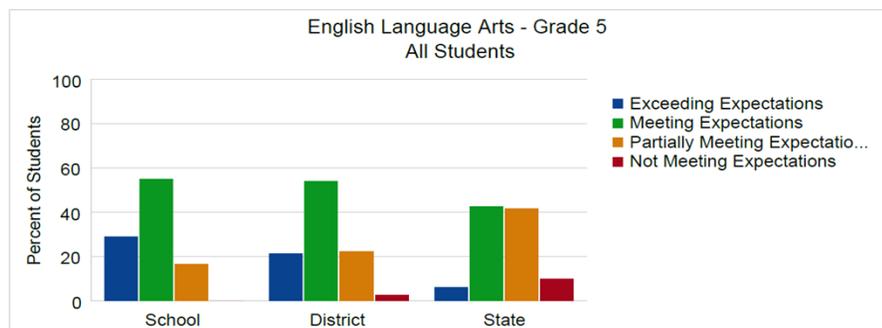


Mathematics	N Included	% School	% District	% State
Exceeding Expectations	14	18	14	6
Meeting Expectations	50	66	62	43
Partially Meeting Expectations	11	14	21	39
Not Meeting Expectations	1	1	3	13
Total Included	76			

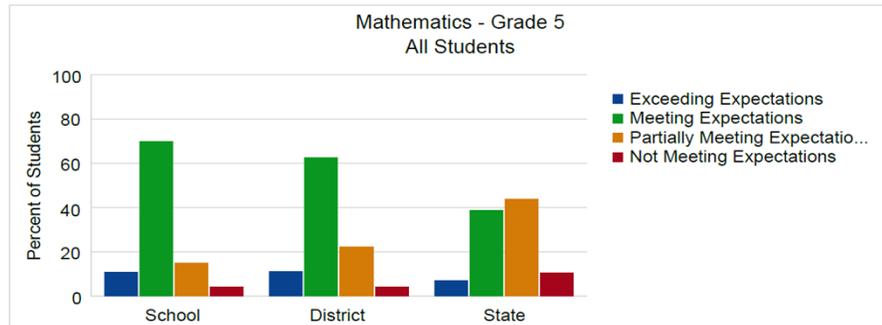


# Memorial School Data

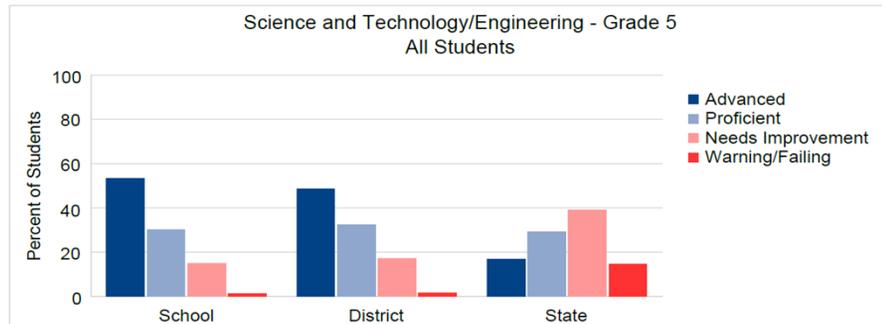
English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	21	29	21	6
Meeting Expectations	40	55	54	43
Partially Meeting Expectations	12	16	22	42
Not Meeting Expectations	0	-	3	10
Total Included	73			



Mathematics	N Included	% School	% District	% State
Exceeding Expectations	8	11	11	7
Meeting Expectations	51	70	62	39
Partially Meeting Expectations	11	15	22	44
Not Meeting Expectations	3	4	4	10
Total Included	73			



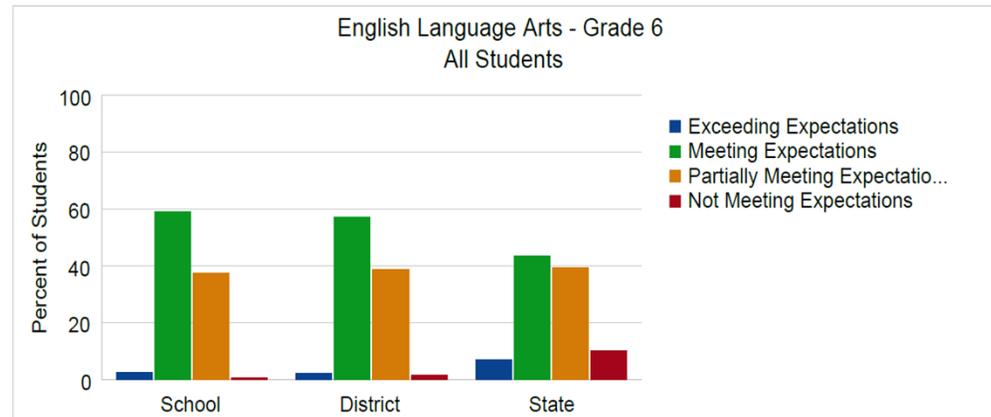
Science and Technology/Engineering	N Included	% School	% District	% State
Advanced	39	53	49	17
Proficient	22	30	32	29
Needs Improvement	11	15	17	39
Warning/Failing	1	1	2	15
Total Included	73			



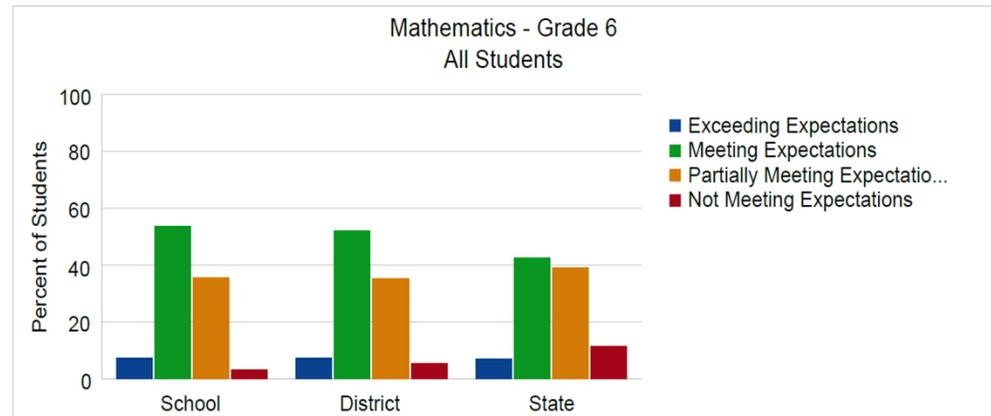
# Middle School Data

## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	3	2	2	7
Meeting Expectations	71	59	57	43
Partially Meeting Expectations	45	38	39	39
Not Meeting Expectations	1	1	2	10
Total Included	120			



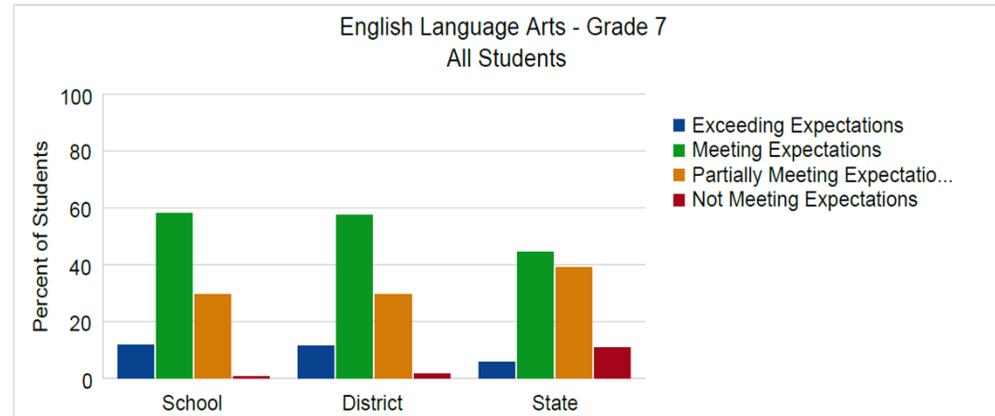
Mathematics	N Included	% School	% District	% State
Exceeding Expectations	9	7	7	7
Meeting Expectations	65	54	52	42
Partially Meeting Expectations	43	36	35	39
Not Meeting Expectations	4	3	6	11
Total Included	121			



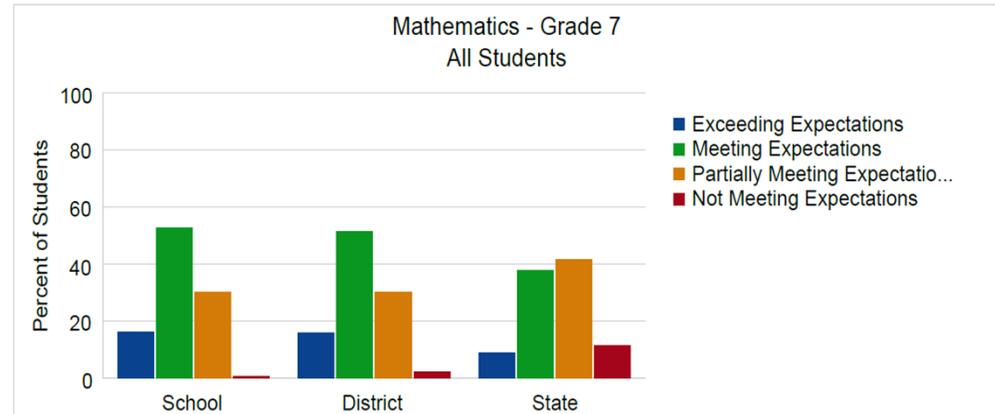
# Middle School Data

## All Students

English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	15	12	11	6
Meeting Expectations	75	58	58	44
Partially Meeting Expectations	38	29	30	39
Not Meeting Expectations	1	1	2	11
Total Included	129			

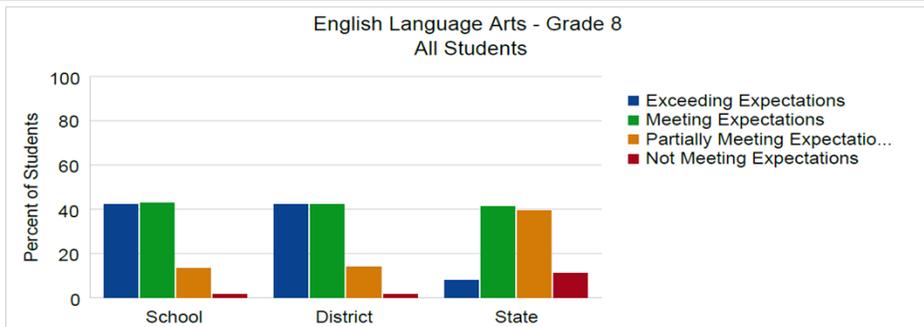


Mathematics	N Included	% School	% District	% State
Exceeding Expectations	21	16	16	9
Meeting Expectations	68	53	52	38
Partially Meeting Expectations	39	30	30	42
Not Meeting Expectations	1	1	2	12
Total Included	129			

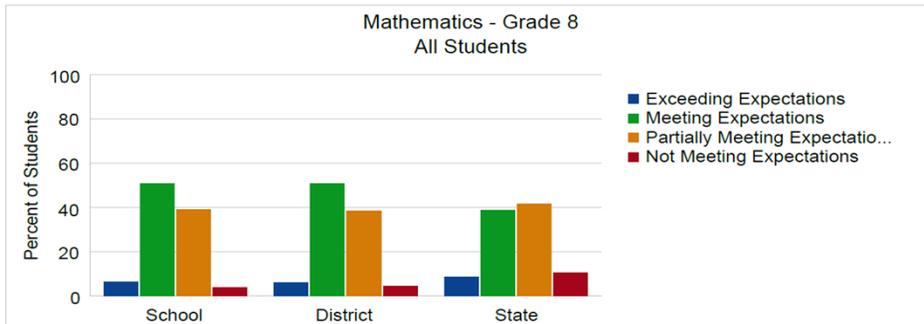


# Middle School Data

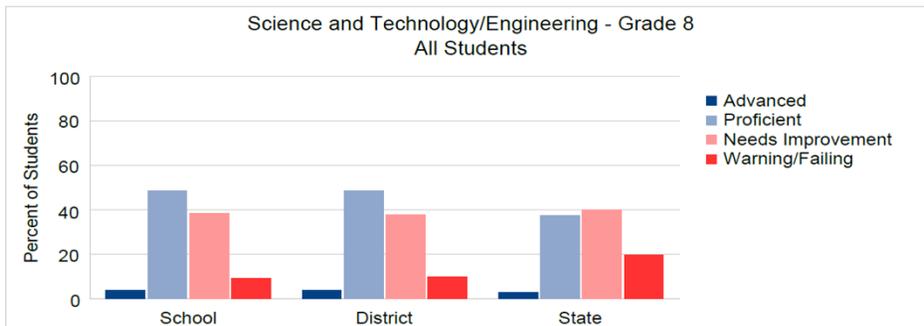
English Language Arts	N Included	% School	% District	% State
Exceeding Expectations	53	42	42	8
Meeting Expectations	54	43	42	41
Partially Meeting Expectations	17	13	14	39
Not Meeting Expectations	2	2	2	11
Total Included	126			



Mathematics	N Included	% School	% District	% State
Exceeding Expectations	8	6	6	9
Meeting Expectations	65	51	51	39
Partially Meeting Expectations	50	39	38	42
Not Meeting Expectations	5	4	5	11
Total Included	128			

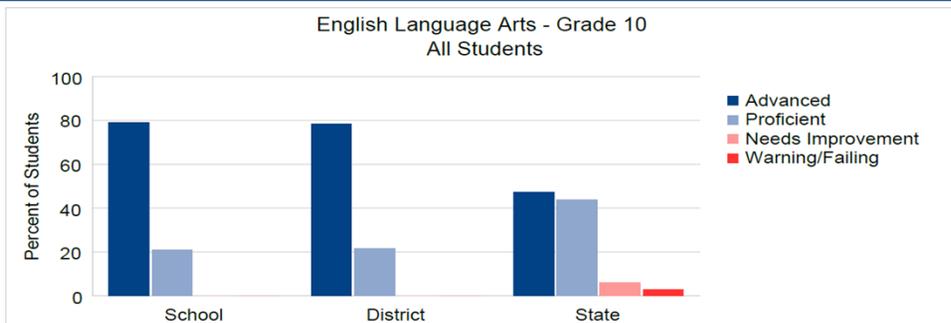


Science and Technology/Engineering	N Included	% School	% District	% State
Advanced	5	4	4	3
Proficient	62	48	48	37
Needs Improvement	49	38	38	40
Warning/Failing	12	9	10	20
Total Included	128			

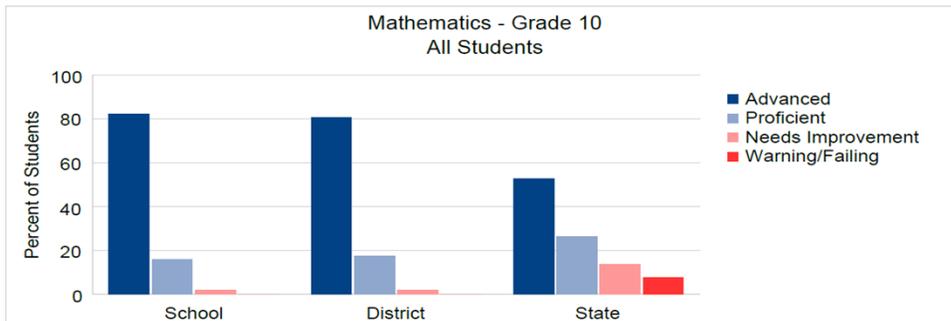


# High School Data

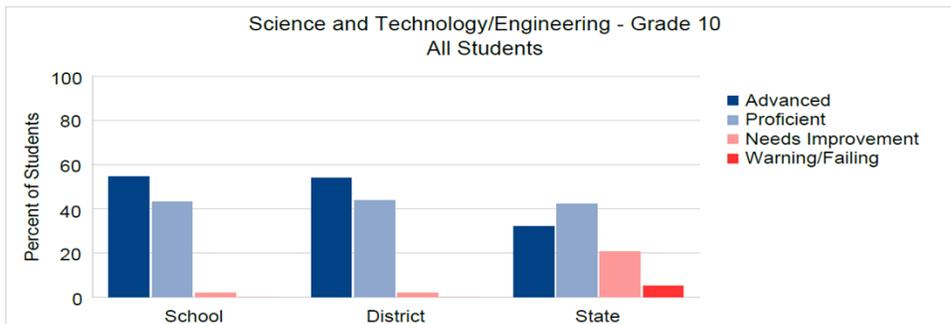
English Language Arts	N Included	% School	% District	% State
Advanced	79	79	78	47
Proficient	21	21	22	44
Needs Improvement	0	-	-	6
Warning/Failing	0	-	-	3
Total Included	100			



Mathematics	N Included	% School	% District	% State
Advanced	83	82	81	53
Proficient	16	16	17	26
Needs Improvement	2	2	2	14
Warning/Failing	0	-	-	8
Total Included	101			



Science and Technology/Engineering	N Included	% School	% District	% State
Advanced	53	55	54	32
Proficient	42	43	44	42
Needs Improvement	2	2	2	21
Warning/Failing	0	-	-	5
Total Included	97			



# What Does The Data Tell Us?

- 1) Baseline and Longitudinal Data
- 2) Trends
- 3) Rigor and Academics
- 4) Curriculum Alignment and Coherence
- 5) Whole Child

# Trends

## ELA: Gr 3-8

- Essay/Extended Writing
- Write an essay vs. write a narrative
- Finding and using textual evidence
- Understanding nuance, inference, and meaning in complex text

## Math: Gr 3-8

- Short answer
- Place value
- Operations & Algebraic Thinking : Solve problems using 4 operations
- Multiply and divide within 100
- Numbers and Operations: Adding, subtracting, and converting decimal notations to fractions
- Use properties of operations to generate equivalent expressions

## Science: Gr 3-8

- Earth and the solar system
- Heat transfer in the earth system

# Vertical & Horizontal Curriculum Alignment

- Reorganize curriculum review cycle
- Coordinate.....
- Build task force to review:
  - ELA (2017-2018)
  - Math (2018-2019)
  - Science (2019-2020)

# Next Steps

- Review K-12 curriculum and content alignment to the new 2017 MA ELA, mathematics, and science standard expectations
- Assess K-12 vertical and horizontal curriculum alignment
- Determine next steps for curriculum review and adoption cycles
- Assess student work to determine grade-level expectations for writing
- Research instructional strategies to support the implementation of best practices in ELA, math, and science curricula
- Review assessments and interventions for students
- Train staff and students on the computer-based MCAS exam