#### **Hull Public Schools**

#### Spring 2019 MCAS & Accountability Results

#### Grades 3 - 10

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## **Presentation Agenda**

- Overview of Next-Generation MCAS (MCAS 2.0)
- Accountability
- 2019 MCAS Results
- Graduation Cohort Data
- DART Comparisons
- Target Strategies for Improvement

# Overview of Next-Generation MCAS (MCAS 2.0)

#### **2019 Assessments**

Schools	Assessment		
Hull High School			
Grade 9 Introductory Physics	Legacy MCAS		
Grade 10 ELA and Math	Next-Generation MCAS (first year 2019)		
Memorial Middle School			
Grade 6 ELA and Math	Next-Generation MCAS (since 2017)		
Grade 7 ELA and Math	Next-Generation MCAS (since 2017)		
Grade 8 ELA and Math	Next-Generation MCAS (since 2017)		
Grade 8 Science and Technology	Legacy MCAS		
Jacobs Elementary School			
Grade 3 Reading and Math	Next-Generation MCAS (since 2017)		
Grade 4 ELA and Math	Next-Generation MCAS (since 2017)		
Grade 5 ELA and Math	Next-Generation MCAS (since 2017)		
Grade 5 Science and Technology	Legacy MCAS		

## **Next-Generation MCAS Overview**

- Focuses on students' critical thinking, abilities, application of knowledge, and ability to make connections between reading and writing
- Gives *clearer signal for readiness* for the next grade level or college and career
- Designed to be given on a *computer*

## **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.

#### Not Meeting Expectations

A student who performed at this level did not meet grade-level expectations in this subject.

#### Proposed Competency Determination Requirements for ELA and Mathematics, by Class

	School Year			Competency		
Class	2017-18	2018-19	2019-20	2020-21	2021-22	Determination Requirements
Class of 2020	Grade 10	Grade 11	Grade 12			Legacy 240 or 220+EPP
Class of 2021	Grade 9	Grade 10*	Grade 11	Grade 12		MCAS 2.0 ELA 472 or 455+EPP MCAS 2.0 Math 486 or 469 + EPP *equivalent to Legacy threshold
Class of 2022		Grade 9	Grade 10	Grade 11	Grade 12	MCAS 2.0 ELA 472 or 455+EPP MCAS 2.0 Math 486 or 469 + EPP *equivalent to Legacy threshold

\* First administration of Next-Generation grade 10 tests in ELA/Mathematics

#### Accountability

# **Accountability Indicators**

Indicator	Measure
Achievement	ELA, math, & science achievement
Student Growth	ELA & math student growth percentile
High School Completion	*Four-year cohort graduation rate *Extended engagement rate *Annual dropout rate
English Language Proficiency	Progress made by students towards attaining English language proficiency
Additional Indicators	Chronic absenteeism *Advanced coursework completion

## **2019 Accountability Results**

District	Progress Toward Targets
Hull Public Schools	Moderate Progress

School	Progress Toward Targets
Hull High School	Moderate Progress
Memorial Middle School	Substantial Progress
Jacobs Elementary School	Moderate Progress

#### **2019 MCAS Results**

#### MCAS Percentile Results Meeting and Exceeding Expectations

Grades 3,4,5	Hull	State
Grade 3 ELA	59	56
Grade 3 Math	59	49
Grade 4 ELA	39	52
Grade 4 Math	44	50
Grade 5 ELA	35	52
Grade 5 Math	26	48
Grade 5 *STE	44	49

Grade 5 *STE	44	49	
All Grades 3 - 8	Hull	State	
ELA	55	52	
Math	54	49	
Grades 5 & 8 Science	51	48	

Grades 6,7,8	Hull	State
Grade 6 ELA	66	53
Grade 6 Math	68	52
Grade 7 ELA	65	48
Grade 7 Math	62	48
Grade 8 ELA	68	52
Grade 8 Math	66	46
Grade 8 *STE	58	46

Grades 9,10	Hull	State
Grade 10 ELA	70	61
Grade 10 Math	59	59
*Grade 9 Intro to Physics	78	74

\* Legacy MCAS - % Proficient or Advanced

#### **Graduation Cohort Data**











## MCAS Cohort Results Student Growth Percentiles

Class	ELA	Math
2027 current grade 5	41	46
2026 current grade 6	37	30
2025 current grade 7	50	65
2024 current grade 8	60	59
2023 current grade 9	55	53

Growth Target = 40 - 60 Percentile

#### **DART Comparisons**

#### Dart Comparison Grades 3-8 ELA



#### Dart Comparison Grades 3-8 Math



#### Dart Comparison Grades 5 & 8 Science



#### Dart Comparison Grade 10 ELA



#### Dart Comparison Grade 10 Math



#### Dart Comparison Grade 9 Science



#### **Target Strategies for Improvement**

## Elementary Target Strategies for Improvement

- Continue collecting formative assessments in all content areas to check clarity of instruction and student acquisition of skills
- Lesson planning that reflects the taxonomy of critical thinking skills necessary for mastery of end-of grade level standards using the Bloom's/Marzano/Webb's Depth of Knowledge Crosswalk document
- Test prep notebooks with teacher-modeled examples for constructed response, short answer, essays
- Increase direct/explicit teaching of test-taking strategies
- Increase use of technology in day to day teaching to give students ample practice on the platform

# Middle School ELA Target Strategies for Improvement

- Increase targeted grammar instruction
- Direct instruction and modeling of selecting the most important events from a passage
- Extend discussions on why a specific section from a reading contributes to the development of the plot
- Increase opportunities for narrative writing
- Regular opportunities for using technology for test-taking practice to ensure familiarity with format

# Middle School Math Target Strategies for Improvement

- Increase time graphing in the coordinate plane
- Reinforce understanding of the relationships between and among operations (integers, decimals and fractions)
- Increase contextual use of two and three dimensional vocabulary
- Increase use of manipulatives to foster understanding of triangle theorems
- Provide on-going opportunities for students to engage in data analysis of meaningful information
- Increase instruction in writing equations from verbal descriptions, rate of change across equations, tables and graphs, slope, and slope at rate of change

# Middle School Science Target Strategies for Improvement

- Provide ample opportunities for analyzing and interpreting graphs, diagrams and data tables
- Increase opportunities to construct explanations and design solutions through project based learning
- Increase opportunities for students to practice answering a variety of types of questions and practice test-taking strategies
- Increase use of instructional strategies which allow opportunities for analyzing, interpreting, creating/problem solving, and application of knowledge

# High School English Target Strategies for Improvement

- Increase opportunities to determine and compare the narrators' views on a topic in two passages
- Provide more practice analyzing and contrasting two passages related to the same topic
- Incorporate more analysis of the tone of a passage and select supporting evidence from the passage
- Increase use of instructional strategies which allow opportunities for critical thinking, application of knowledge, and ability to make connections between reading and writing
- Provide ample opportunities for use of technology for test-taking practice to ensure familiarity with format

# High School Math Target Strategies for Improvement

- Implement multiple opportunities for students to create and interpret graphs of lines and transformations using technology in addition to paper
- Increase repertoire of problem solving strategies and demonstrate perseverance as students tackle new content
- Increase opportunities for students using technology to practice answering a variety of questions, practice testtaking strategies and ensure familiarity with format

# High School Introduction to Physics Target Strategies for Improvement

- Introduce open response-style questions earlier in the school year and administer with more frequency
- Provide detailed examples of exemplar responses and scored rubrics
- Lessons and labs modified to include more experiences based on conservation of energy and electromagnetism

#### **Questions?**