



MCAS Data & Analysis Spring 2022

Oliver Ames High School

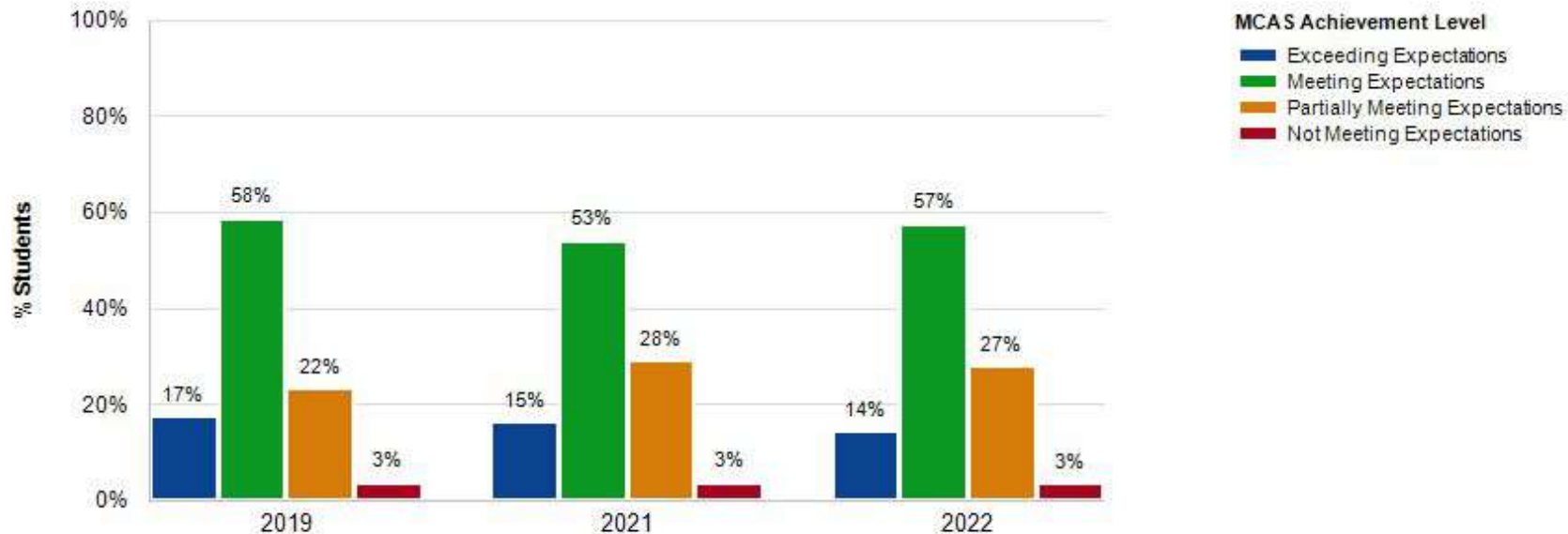
Grades 9 and 10



Math: Grade 10 Overall Scores

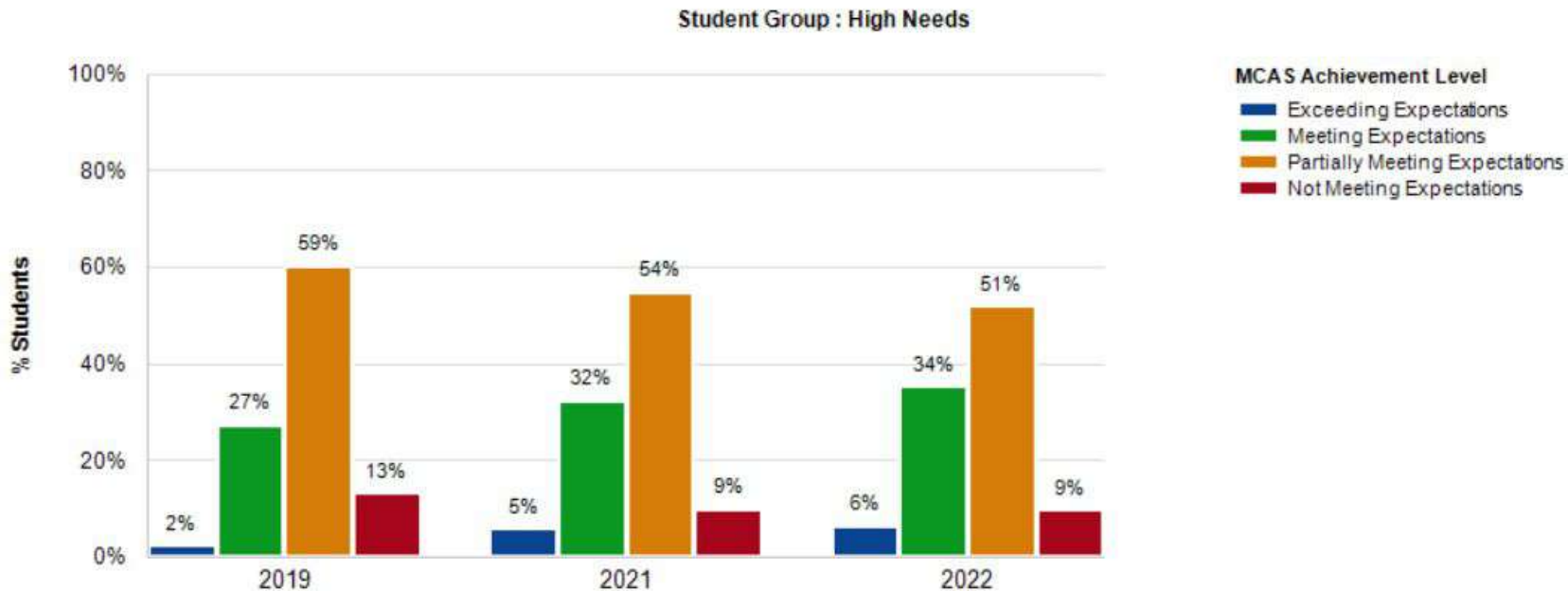


Student Group : All Students





Math: Grade 10-High Needs Subgroup





Math: Grade 10 2019-2022

OA is slightly further ahead now than in 2019, when compared to the state data

However, our mean student growth percentage has dropped



	2019			2020			2021		
	<u>School</u>	<u>District</u>	<u>State</u>	<u>School</u>	<u>District</u>	<u>State</u>	<u>School</u>	<u>District</u>	<u>State</u>
<u>Exceeding Expectations</u>	17%	17%	13%	15%	15%	11%	14%	13%	11%
<u>Meeting Expectations</u>	58%	58%	45%	53%	53%	41%	57%	55%	38%
<u>Partially Meeting Expectations</u>	22%	22%	33%	28%	29%	36%	27%	28%	40%
<u>Not Meeting Expectations</u>	3%	3%	9%	3%	4%	12%	3%	3%	10%
<u>Average Scaled Score</u>	512	512	505	509	508	501	509	508	501
<u>N Students</u>	276	277	70,392	272	280	64,015	259	265	67,028
<u>Participation Rate</u>				99%	99%	89%	99%	99%	98%
<u>Mean SGP</u>	44	44	50	32	32	37	41	41	50



Math: Grade 10 by Demographic

	% Meeting or Exceeding Expectations	% Exceeding Expectations	% Meeting Expectations	% Partially Meeting Expectations	% Not Meeting Expectations
All Students					
All Students	70	14	57	27	3
Low Income Status					
Low Income	52	7	45	43	5
Non-Low Income	75	15	60	23	2
Disability Status					
Students w/ Disabilities	17	2	15	70	13
Non-Disabled	82	16	66	17	8
English Learner (EL) Status					
EL					
Non-EL	70	14	57	27	3
Race/Ethnicity					
African Amer./Black	55	9	45	18	27
Asian	90	50	40	10	0
Hispanic/Latino	47	0	47	53	0
Multi-Race, Non-Hisp./Lat.					
White	72	14	58	26	2



Math: Grade 10

Analysis

Achievement levels for each year are flat.

The achievement of our “high needs” population has increased from 2019-2022 (increase of 14% meeting or exceeding expectations), though still underperforming when compared to “all students” data.

Our students with disabilities continue to significantly underperform when compared to non-disabled students.

Areas of Strength by Standard from Math MCAS Spring 2022

- Congruence
- Expressing Geometric Properties with Equations
- Geometric Measurement and Dimension
- Similarity, Right Triangles, and Trigonometry

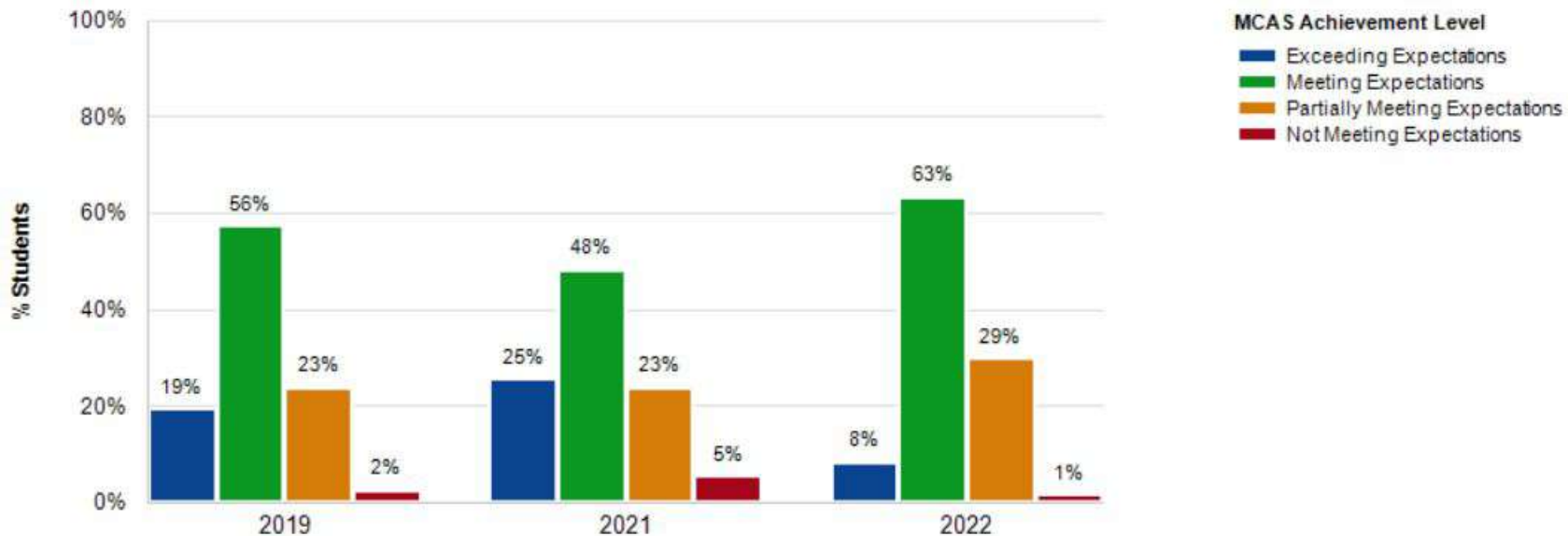
Areas of Growth by Standard from Math MCAS Spring 2022

- Arithmetic with Polynomials and Rational Expressions
- Building Functions
- Linear, Quadratic, and Exponential Models



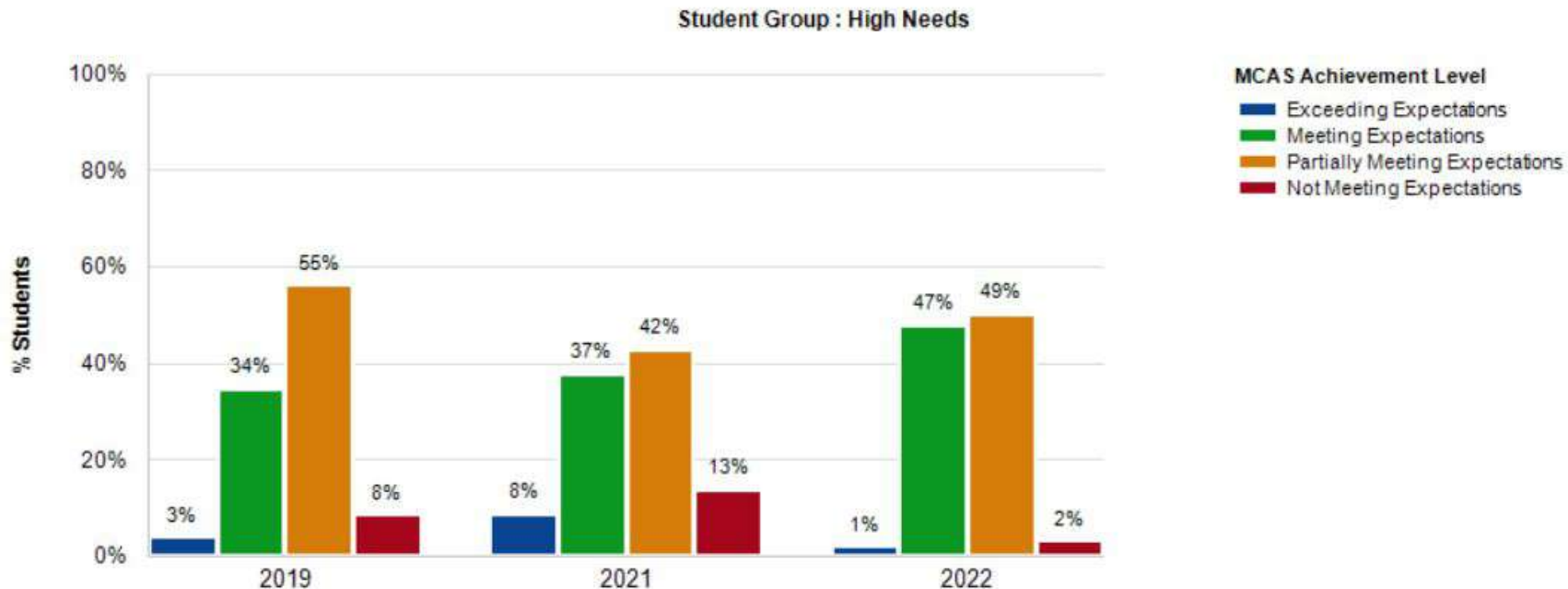
ELA: Grade 10

Student Group : All Students





ELA: Grade 10-High Needs Subgroup





ELA: Grade 10 2019-2022

OA is further ahead when compared to the state now than 2019

However, our mean student growth percentage has dropped

	2019		2021		2022	
	District	State	District	State	District	State
Exceeding Expectations	19%	13%	25%	19%	8%	9%
Meeting Expectations	56%	48%	48%	45%	63%	49%
Partially Meeting Expectations	23%	31%	23%	27%	29%	34%
Not Meeting Expectations	2%	8%	5%	9%	1%	8%
Average Scaled Score	513	506	513	507	507	503
N Students	278	70,815	282	64,305	262	67,396
Participation Rate			99%	90%	98%	98%
Mean SGP	50	49	53	53	41	50





ELA: Grade 10 by Demographic

	% Meeting or Exceeding Expectations	% Exceeding Expectations	% Meeting Expectations	% Partially Meeting Expectations	% Not Meeting Expectations
All Students					
All Students	71	8	63	28	1
Low Income Status					
Low Income	59	2	57	38	4
Non-Low Income	75	9	65	25	0
Disability Status					
Students w/ Disabilities	24	0	24	71	4
Non-Disabled	81	9	72	19	0
English Learner (EL) Status					
EL					
Non-EL	71	8	64	28	0
Race/Ethnicity					
African Amer./Black	64	18	45	27	9
Asian	100	20	80	0	0
Hispanic/Latino	65	6	59	29	6
Multi-Race, Non-Hisp./Lat.					
White	71	7	64	29	0



ELA: Grade 10

Analysis

Achievement levels for each year are flat:

- Exceeding has dropped by 11% since 2019
- Meeting expectations has increased by 7%

The achievement of our “high needs” population has increased from 2019-2022 (increase of 11% meeting or exceeding expectations), though still underperforming when compared to “all students” data.

Our students with disabilities continue to significantly underperform when compared to non-disabled students.

Areas of Strength by Standard from ELA MCAS Spring 2022

- **Language:**
 - Conventions of Standard English
 - Vocabulary Acquisition and Use
- **Reading**
 - Craft and Structure
 - Integration of Knowledge and Ideas
 - Key Ideas and Details

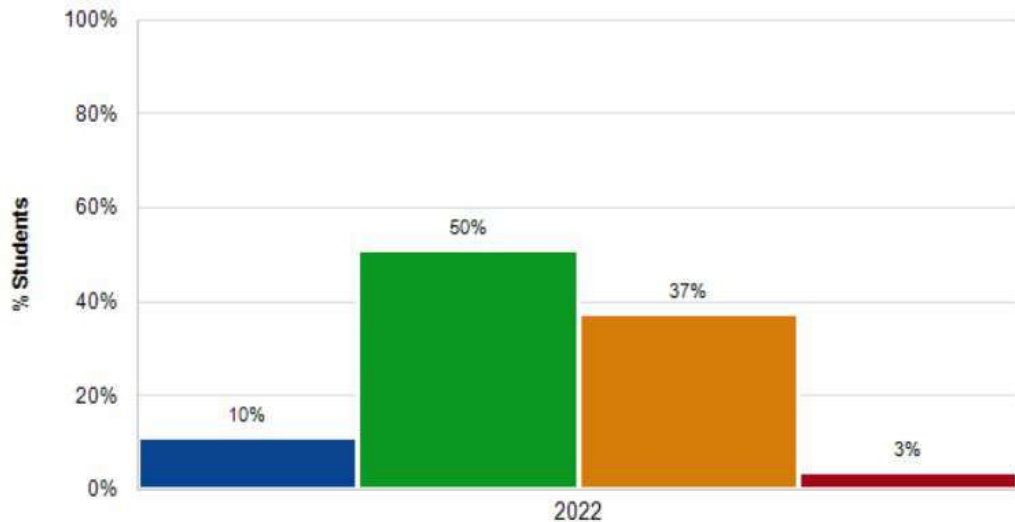
Areas of Growth by Standard ELA Math MCAS Spring 2022

- **Writing**
 - Production and Distribution of Writing



Science (Physics): Grade 9 2022

Student Group : All Students



MCAS Achievement Level

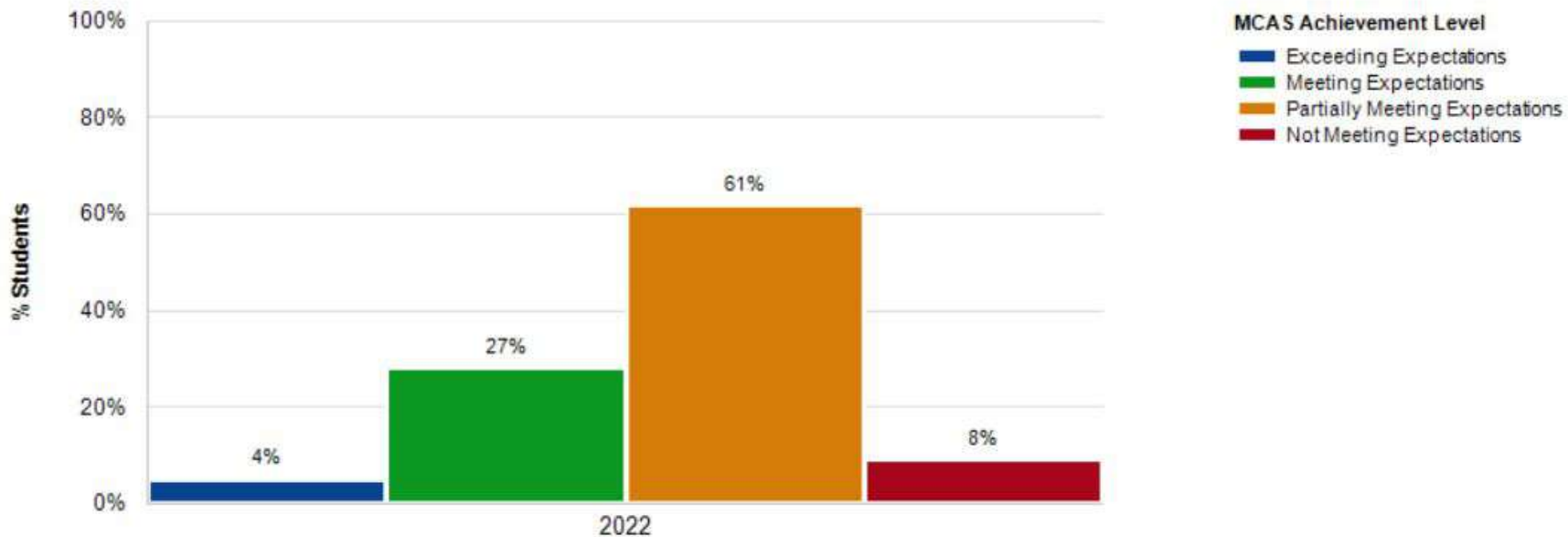
- Exceeding Expectations
- Meeting Expectations
- Partially Meeting Expectations
- Not Meeting Expectations

	2022	
	District	State
Exceeding Expectations	10%	12%
Meeting Expectations	50%	37%
Partially Meeting Expectations	37%	40%
Not Meeting Expectations	3%	11%
Average Scaled Score	505	500
N Students	273	13,892



Science (Physics): Grade 9

Student Group : High Needs





Science (Physics): Grade 9 by Demographic

	% Meeting or Exceeding Expectations	% Exceeding Expectations	% Meeting Expectations	% Partially Meeting Expectations	% Not Meeting Expectations	Average SS	N Students Included
All Students							
All Students	62	11	52	35	3	506	266
Low Income Status							
Low Income	38	6	32	53	9	497	47
Non-Low Income	67	11	56	32	1	508	219
Disability Status							
Students w/ Disabilities	12	0	12	73	15	484	41
Non-Disabled	71	12	59	28	0	510	225
English Learner (EL) Status							
EL							2
Non-EL	62	11	52	36	2	506	264
Race/Ethnicity							
African Amer./Black	33	5	29	62	5	495	21
Amer. Ind. or Alaska Nat.							2
Asian							7
Hispanic/Latino	40	0	40	60	0	502	15
Multi-Race, Non-Hisp./Lat.							7
White	66	11	55	31	2	507	214



Science (Physics): Grade 9

Analysis

Achievement levels for each year are baseline for the Next Generation STE/Physics exam.

Students with high needs and disabilities underperform when compared to “all students”

	District % Possible Points	State % Possible Points
Domain / Cluster		
Physics	62%	56%
Energy	60%	55%
Motion, Forces, and Interactions	66%	60%
Waves	53%	49%
Science Practices		
Science Practices	62%	56%

**Performance by Standard from Physics
MCAS Spring 2022**



Overall MCAS Goals Moving Forward

Continue to increase our students' performance each year when compared to the state averages.

Take a deeper dive into our work regarding equity and inclusion, as it relates to our curriculum/instructional practices to identify what we can adjust to support underperforming groups.

Continue work with our curriculum and UbD to review the standards in which our students were more likely to answer questions incorrectly