

## INTERNAL MONITORING REPORT

**Policy:** 4.3 Problem Solver  
**Policy Category:** Ends  
**PERIOD MONITORED:** March 10, 2014 – March 23, 2015  
**BOARD MEETING DATE:** March 23, 2015

This is my monitoring report on the Board of Education's Ends policy "Problem Solver." The report is being submitted, **outside of the** Board of Education's monitoring schedule. I certify that the information is true and complete. This report will monitor the policy starting at its more detailed provisions and end with the global provision.

The interpretations for this Monitoring Report are reasonable as our curriculum is aligned with Common Core State Standards for English Language Arts, Mathematics, and being aligned History/Social Studies, Science and Technical Subjects. The Standards are (1) research and evidenced based, (2) aligned with college and work expectations, (3) rigorous, and (4) internationally benchmarked. They describe what it means to say a person has the 21<sup>st</sup> Century Skills necessary for college and the world of work. Among the necessary skill sets are:

- Construct viable arguments and critique the reasoning of others.
- Attend to precision.
- Look for and make use of structure.
- Reason abstractly and quantitatively.
- Make sense of problems and persevere in solving them.
- Respond to varying demands of audience, task, purpose, and discipline.
- Understand other perspectives and cultures.

This same high standard of reasonableness is utilized throughout the monitoring report and as a result the interpretations and collected data often reflect the EXPLORE – PLAN – ACT sequence of assessments. This sequence is the national benchmark. AP exam scores are also used as they are a nationally accepted benchmark of the skill set referenced in Board of Education policy language.



Michael F. Paskewicz  
Superintendent

Date: March 23, 2015

### **Policy Language 4.3.1**

*(a) Analyze a problem; (b) design and develop a solution; (c) implement the solution; (d) evaluate the results.*

**Interpretation: The interpretation has not changed since the last report.**

I interpret this to mean:

1. The K-12 curriculum utilized by Northview Public Schools is aligned with the Michigan Grade Level and High School Content Expectations. The 8-12 curricula utilized by Northview Public Schools are aligned in core areas with the EXPLORE/PLAN/ACT tested standards.
2. The percentage of students exceeding the MME/ACT College Readiness Standards exceeds the State of Michigan and KISD average.
3. The minimum composite score on the EXPLORE 8<sup>th</sup> grade test is not less than 16 and at no time is it below the average composite score of students compared to the National Norm.
4. The minimum composite score on the PLAN 10<sup>th</sup> grade test is not less than 18 and at no time is it below the average composite score of students compared to the National Norm.
5. The minimum composite score of the ACT is not less than 21.0 and at no time is it below the average composite scores of the states that currently require all students to take the ACT.
6. 70% of 12<sup>th</sup> grade students complete a senior project that selects and analyzes a problem, design and develop a solution, implement the solution and evaluate the results.

This interpretation is reasonable as the minimum composite scores on EXPLORE and PLAN tests are above the National Norm. The composite ACT score is above the average score of districts that require all students to take the ACT. All the above listed interpretations have direct course/performance content or best practices that relate to the policy language identified by the Board of Education.

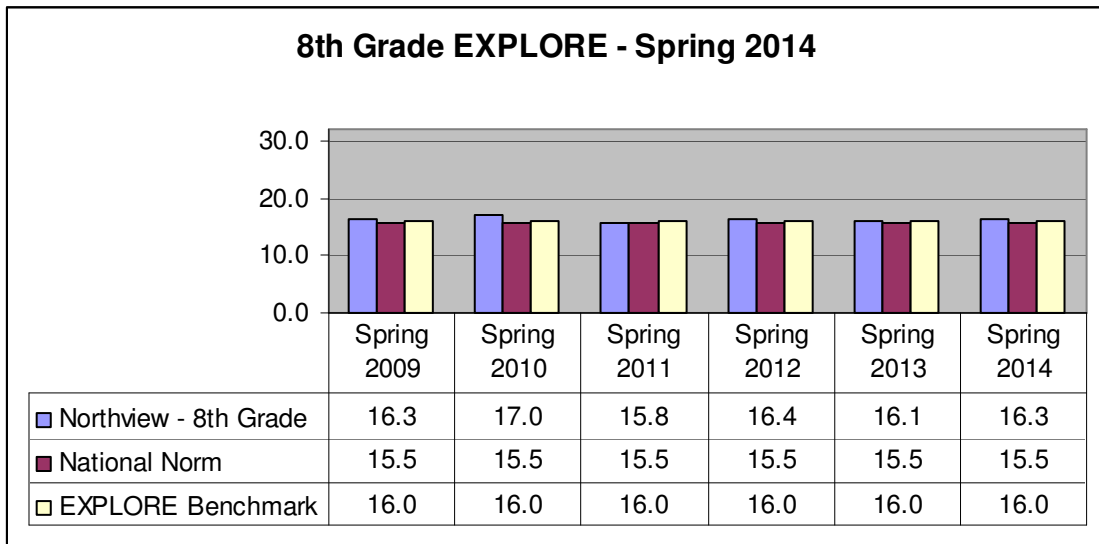
Reasonableness is also related to the ACT as a predictor of academic post-secondary success. Further the Michigan High School Graduation Requirement Survey data was based upon satisfaction with learning environment and rigorous graduation requirements as predictors of post-secondary success. Further, this interpretation is reasonable as the Michigan Grade Level and High School Content Expectations are based upon accepted national and international standards. The EXPLORE/PLAN/ACT tested standards are recognized by colleges/universities as predictors of success at the post-secondary level as well as the major criteria for acceptance to college/university enrollment.

**Data Reported:**

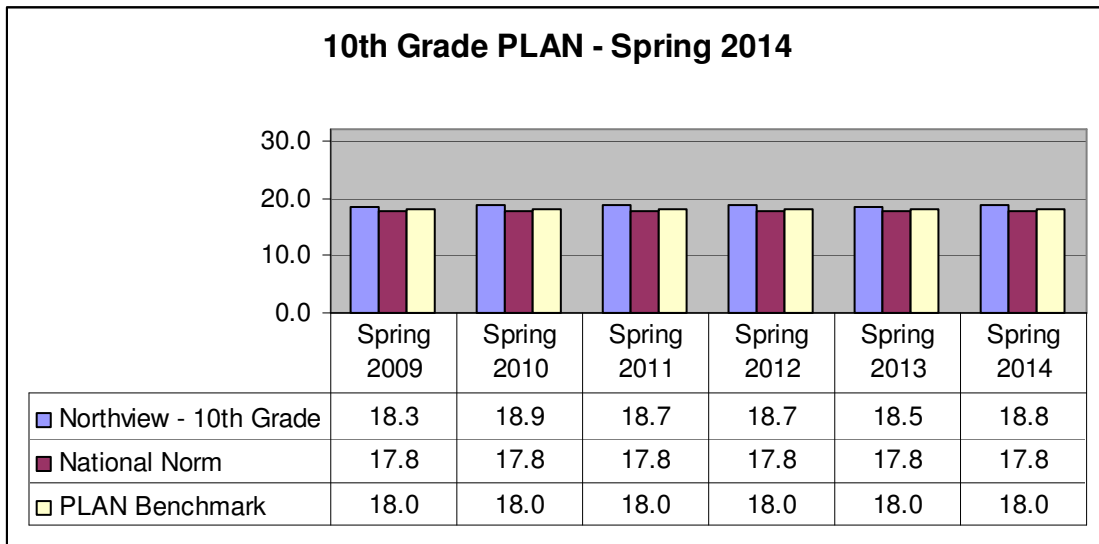
1. All K-12 curriculum is aligned with the Michigan Grade Level and High School Content Expectations (or Standards, where applicable).  
The 8-12 curriculum is aligned with the EXPLORE/PLAN/ACT tested standards in core areas.
2. The following table indicates the Northview scores exceed the State of Michigan and KISD scores except for reading. The four (4) year goal is to reach a benchmark of 50% of the 11<sup>th</sup> grade students meeting the College Readiness Benchmarks. **An average 2% increase per year is expected.**

	Spring 2010	Spring 2011	Spring 2012	Spring 2013	Spring 2014	College Ready Standard Bench
	MI/KISD/NV	MI/KISD/NV	MI/KISD/NV	MI/KISD/NV	MI/KISD/NV	
English	56/57/70%	53/60/69%	54/59/64%	56/58/62%	57/61/64%	18
Math	33/36/40%	32/39/40%	33/40/45%	33/39/38%	32/38/47%	22
Reading	40/43/45%	40/46/53%	41/45/51%	41/46/46%	38/42/41%	21
Science	25/25/32%	23/27/29%	24/28/28%	23/26/24%	32/35/35%	24
Comp	19/19/24%	17/21/21%	18/22/23%	18/21/18%	20/23/24%	21

3. The current composite EXPLORE score (Spring 2014) is 16.3. This composite score is .8 point above the National Norm (15.5) and .3 point above the EXPLORE benchmark (16).



4. The current composite PLAN score (Spring 2014) is 18.8. This composite score is 1.0 point above the National Norm (17.8) and .8 point above the PLAN benchmark (18).



5. The composite ACT score for the 2014 graduating class was 20.7. This composite score was above (or the same as) the composite scores of all states testing 100% of 11<sup>th</sup> grade students. It is above the State ACT composite score (20.1) by .6 point. It is below the National ACT average composite score (21.0) of students who took the ACT by .3 point. It is .3 point below the ACT benchmark (21.0).

	<b>Class of 2010</b>	<b>Class of 2011</b>	<b>Class of 2012</b>	<b>Class of 2013</b>	<b>Class of 2014</b>
<b>Northview HS</b>	21.0	20.7	21.3	20.8	20.7
<b>ACT Benchmark</b>	21.0	21.0	21.0	21.0	21.0
<b>National</b>	21.0	21.1	21.1	20.9	21.0
<b>Michigan</b>	19.7	20.0	20.1	19.9	20.1
<b>Colorado</b>	20.6	20.7	20.6	20.4	20.6
<b>Illinois</b>	20.7	20.9	20.9	20.6	20.7
<b>Kentucky</b>	19.4	19.6	19.8	19.6	19.9
<b>Tennessee</b>	19.6	19.5	19.7	19.5	19.8
<b>Wyoming</b>	20.0	20.3	20.3	19.8	20.1
<b>Louisiana</b>	NA	20.2	20.3	19.5	19.2
<b>Mississippi</b>	NA	18.7	18.7	18.9	19.0
<b>North Dakota</b>	NA	NA	20.7	20.5	20.6

5. **67%** of 12<sup>th</sup> grade students (165/244) completed a senior project. All are enrolled in English 12 classes.

	2012	2013	2014
% of Students Completing Senior Project	59%	63%	<b>67%</b>

**Conclusion Statement:**

The organization met expectations except for the following:

- #2 – In Reading, Northview did not exceed State or KISD averages. A 2% increase is expected for March 2015.
- #5 - The Northview ACT composite was 20.7 (.3 below the ACT Benchmark) and .3 below the average of states testing all 11<sup>th</sup> grade students (21). A .2 increase is expected for 2015.
- #6 - **67%** of 12<sup>th</sup> grade students completed a senior project. This is below the 70% benchmark. **A gain of 4% exceeded the expected gain of 3%.** A gain of 3% is expected by March 2016.

**Policy Language 4.3.2**

*Northview fosters a sense of students not being fearful of problem solving by understanding the problem solving process and trusting its value.*

**Interpretation:**

I interpret this to mean:

1. 90% of students enrolled in AP courses earned a “C” or better.
2. 200 or more AP exams are taken each year.
3. 50% of the students taking the exams score a 3 or higher.

This interpretation is reasonable as student satisfaction and perception of rigor is related to an environment that is safe to learn. Also AP courses and AP exams rely heavily upon a strong foundation in the problems solving process. AP exams have a cost/benefit relationship. Students pay to take the exam and scores of 3 or higher result in reduced costs at the higher education level. Increasing the number and percentage of students enrolled in AP courses and taking AP exams is a reasonable indicator that students are not fearful of higher rigor.

**Data Reported:**

1. **92%** of students earned a “C” or better in their AP courses.

	2011	2012	2013	<b>2014</b>
Number of AP Courses Taken	442	484	495	<b>487</b>
Percent of students with “C” or better grade	406/91.9%	453/93.6%	495/471 95.1%	<b>487/447 92%</b>

2. **213** AP exams were taken
3. **61%** earned a score of 3 or higher

	2012	2013	<b>2014</b>
<b># of AP Exams Taken</b>	225	253	<b>213</b>
<b>% of Students Earning a 3 or Higher</b>	63%	56%	<b>61%</b>

**Conclusion Statement:**

The organization met expectations.

- **Note – Incidental Information: 344 Northview High School students in grades 10 – 12 are enrolled in at least one AP course. Freshman do not take AP courses.**



### Policy Language 4.3.3

*Northview provides students with the environment to apply the principles they have learned in all curricula.*

#### Interpretation:

I interpret this to mean:

1. 95% of graduates earn an endorsed diploma based on criteria established by the Northview Board of Education and the State of Michigan within a four year period of time. At all times, the graduation rate of Northview students will exceed the State of Michigan graduation rate.
2. 95% of 8<sup>th</sup> grade students have participated in at least one job shadow experience.
3. 95% of graduating seniors have participated in at least one job shadow or college visit experience.

This interpretation is reasonable as multiple opportunities for exploration of careers are available throughout the middle and high school years for a student. Courses are in line with career development standards contained in ACT Work Keys and State of Michigan Career Education expectations. Through job shadow experiences students are able to assess whether or not their problem solving skills transfer to real life applications.

#### Data Reported:

1. **99.1%** graduated with endorsed diploma (**229 out of 231**).

2011 Graduates	2012 Graduates	2013 Graduates	<b>2014 Graduates</b>
98.5%	94%	95%	<b>99.1%</b>

2. **100%** of 8<sup>th</sup> grade students had at least one job shadow experience.
3. **100%** of graduating seniors participated in at least one job shadow or college visit experience.

#### Conclusion Statement:

The organization met expectations.

### **Policy Language 4.3**

*The Northview curriculum is structured to provide all students with a strong problem solving background including the process as follows:*

#### **Interpretation:**

I submit the policy language has been comprehensively interpreted and analyzed in the preceding sections.

#### **Data Reported:**

Supporting data was presented in the preceding sections.

#### **Conclusion Statement:**

The organization met expectations.