

ADVANCED MATHEMATICS PLACEMENT

MAY 10, 2017



OBJECTIVES OF THE PRESENTATION

- **To understand how students are invited into the Advanced Mathematics program.**
 - To identify the five markers that make up the data points.
 - To understand how to create and apply the rubric to develop a performance ranking.
 - To understand how the appeal process is carried out and which students are eligible to appeal the decision.

FIVE MARKERS

1. **Measure of Academic of Progress and Skills (MAPs) Math Section**

- A. Developed by the NWEA a non-profit organization founded by educators. Their mission is provide valid and reliable data to inform instruction.
- B. Measures student performance in the 4 core strands of mathematics:
 - Operations & Algebraic Thinking
 - Numbers & Operations
 - Measurement & Data
 - Geometry
- C. We hold this marker to be the strongest indicator of mathematics achievement, therefore this test is worth more points than other markers

FIVE MARKERS - CONTINUED

2. **End of the Year Mathematics Grade Level Test** – all students are provided this test
3. **Final Test Average for year/Number of Standards Exceeded by End of Year (3rd)**
4. **Math Practices Rating Scale**- teachers complete a rating scale for every student prior to seeing the performance on the assessments. Teachers rate Mathematics Practices outlined in New Jersey Learning Standards.
5. **Grade Level Benchmark Problem Solving Assessment**- aligned to grade level content and standards. Designed to measure students critical thinking, analysis, and problem solving skills

EXAMPLES OF MATH PRACTICES

- Solves problems in multiple ways
- Makes mathematical conjectures & arguments
- Uses clear labels, units, and mathematical language accurately
- Looks for patterns, categories, and properties
- Explains mathematical thinking clearly and precisely

CREATION OF RUBRIC

- **Each Marker is broken into specific ranges where points will be assigned depending on the raw score.**

For example:

MAPs Assessment RIT score (4th Grade)

- **233+ = 5 points**
- **229-232 = 4 points**
- **216-228 = 3 points**
- **208-215 = 2 points**
- **Below 208 = 0 points**

***National Mean End of Year 4th Grade RIT Score: 213**

REMAINING POINT VALUES

Final Test Avg.

- **93 – 100 = 3 points**
- **80 – 92 = 2 points**
- **70 – 79 = 1 points**
- **0 – 69 = 0 points**

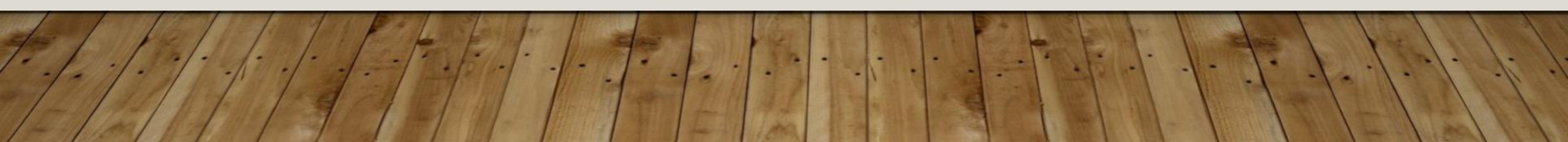
End of Year Test

- **93 – 100 = 3 points**
- **80 – 92 = 2 points**
- **70 – 79 = 1 points**
- **0 – 69 = 0 points**

Math Practices Rating Scale

- **20+ = 2 points**
- **11 – 19 = 1 points**
- **0 – 10 = 0 points**

Benchmark Assessment

- **12 or 13 = 3 points**
 - **10 or 11 = 2 points**
 - **8 or 9 = 1 points**
 - **7 or less = 0 points**
- 

OVERALL PROCESS

- **Data from the five markers is collected.**
- **Development of spreadsheet with data input.**
- **Establish the Advanced Math Rubric Score Identification Level**
- **Identify Advanced Math Student Roster and Identify students eligible for appeal**
- **Contact parents**
- **Complete appeal process**
 - Late August – Early September

APPEAL PROCESS

- **All students at **one point** below the **Advanced Math Rubric Score Identification Level** are eligible to appeal.**
- **Additionally, any student within a **2 points**, who exhibited an outstanding achievement in a specific category may be eligible to appeal.**
- **Students identified for the appeal process are then provided an opportunity to take an alternate Mathematics Achievement Test and 2017 PARCC Scores will be reviewed to identify areas of strength and proficiency**

OVERALL IMPRESSIONS

- **Data Driven**
- **Multiple Markers**
- **Fair system for appeals**