

10-11/2015 Michael Luke

**PARCC MATHEMATICS
ASSESSMENTS 2016:
GRADES 6,7,8; ALGEBRA I,
GEOMETRY, & ALGEBRA II**

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Disclaimer

Michael Luke is a Civil Servant at the New Jersey Department of Education. Michael Luke **does not set policy** for NJDOE. Today's presentation shares no opinions; solely factually correct information about the PARCC Mathematics Assessments Grades 6,7,8, Algebra I, Geometry, and Algebra II. Michael Luke is not a spokesperson for NJDOE. The PowerPoint is available for your professional use.

TOPICS

- The Assessments
 - Common Across All Assessments
 - Specific to Particular Assessment
- Useful Links
- Resources
- Administration
- Score Reporting

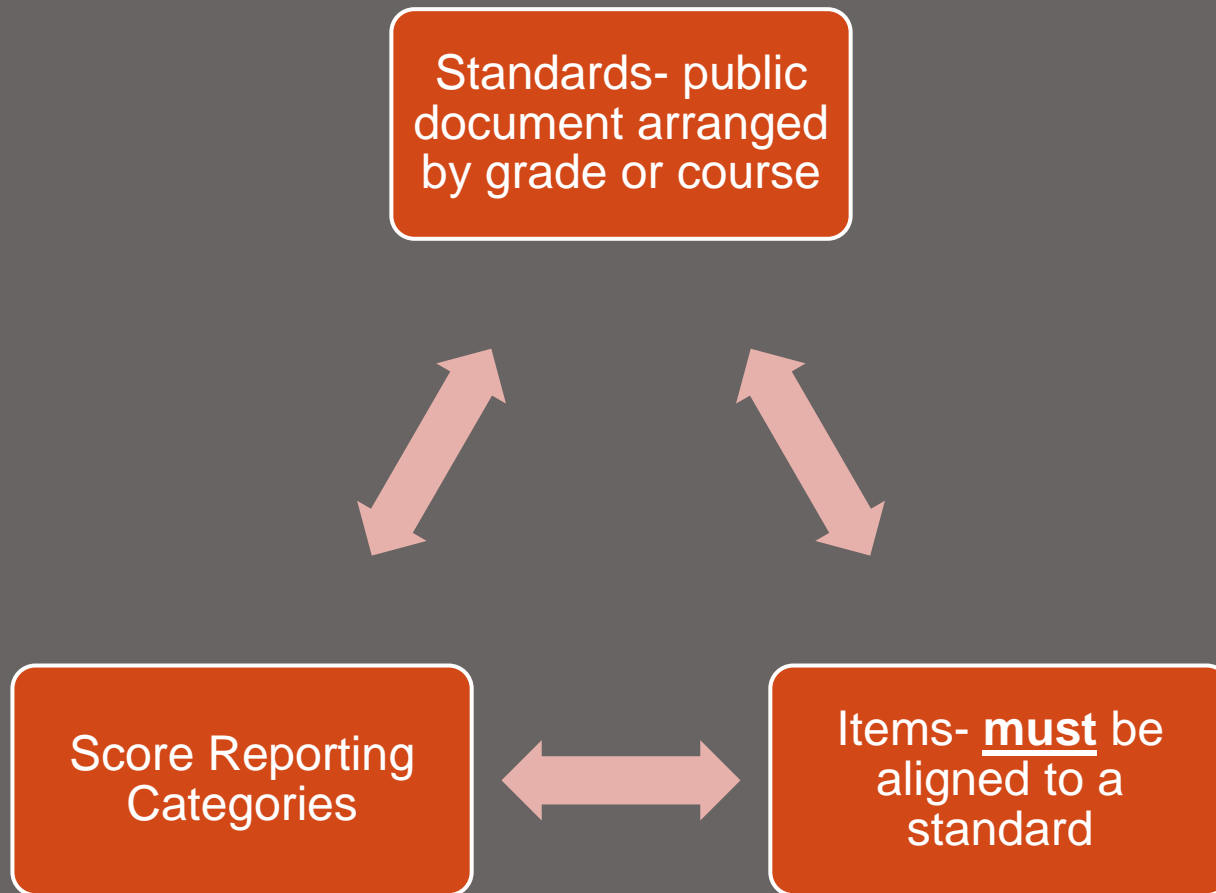
For 2016 there is one administration window- PBA and EOY are combined.

- Grades 6-8: April 4, 2016-May 13, 2016*
- High School: April 11, 2016-MAY20, 2016
- Spring Block: April 25, 2016- June 3, 2016
- PARCC Mathematics Assessments have multiple forms in each grade/course

Useful Links

- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>
- <http://www.parcconline.org/resources/educator-resources/model-content-frameworks>
- <http://www.corestandards.org/Math/>

What are the content rules of a Large Scale Standardized Assessment?



Standards, Items, Score Reporting Categories

Standards

- Common Core State Standards
- PARCC Evidence Statements

Items

- Bulk of today's presentation

Score Reporting Categories

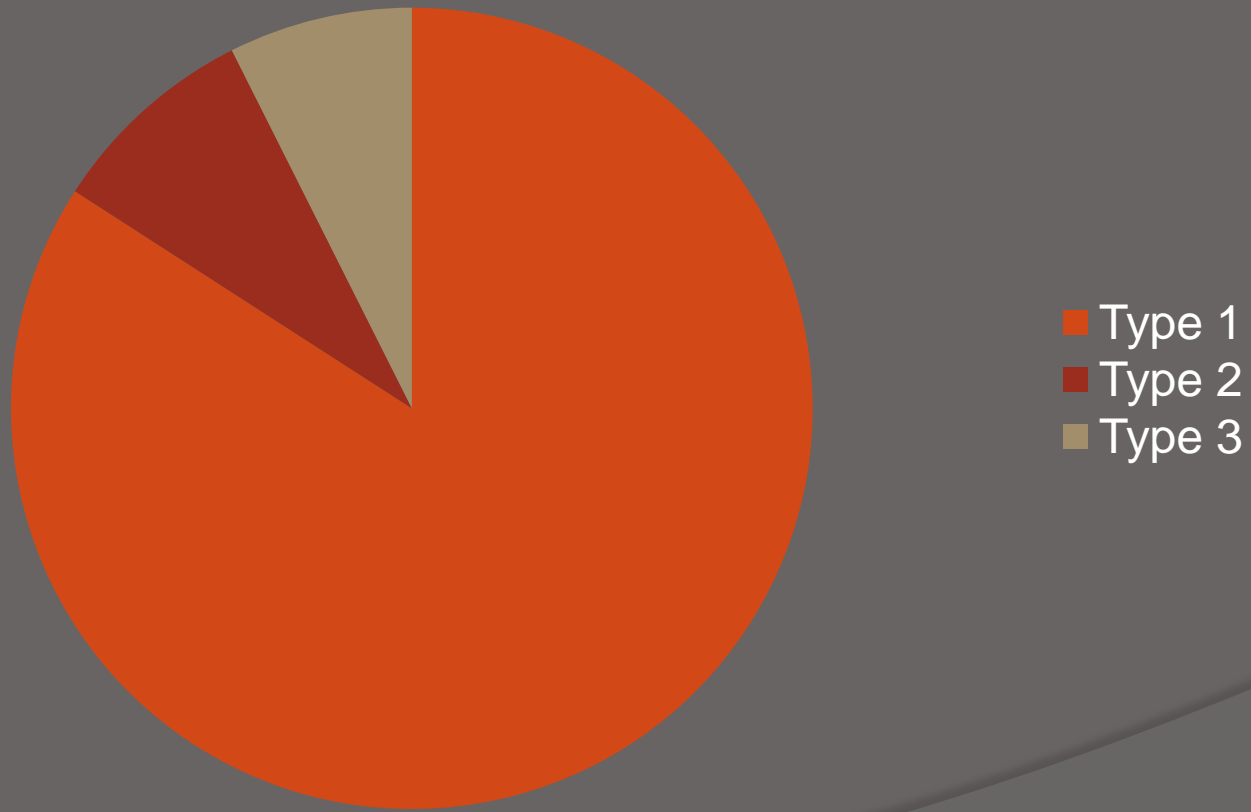
- Informed by Item Results
- PARCC Sub-Claims*

Total Raw Points

- Grades 6, 7, and 8- 66
- Algebra I, Geometry, and Algebra II- 81

Common Across All Grades- Item Types

Item Types



Type 1 Items

- Measure Major, Additional, or Supporting Content at the specified grade or course level- see Model Content Frameworks.
- Aligned to PARCC Evidence Statements (<http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>).
- All are machined scored.

Type 1 Items (Continued)

- Feed back into PARCC Sub-Claims A and B
- Traditional Multiple Choice, Multiple Select (prompt/scoring/just 1 can be correct), In Line Drop Down (cannot be 50/50), Fill in the Box, Drag and Drop.
- Formerly appeared on both the PBA and EOY.

Type 2 Items

- Reasoning Items- reflect the Mathematical Practices.
- Aligned to PARCC C Evidence Statements
- Use mathematics as a context.
- All are hand scored (can have a machine scored component). Equation Editor.
- Feed back into PARCC Sub-Claim C.
- Formerly appeared on PBA.
- Include a “Precision Point”. Attend to precision.

Type 3 Items

- Modeling Items- reflect the Mathematical Practices.
- Aligned to PARCC D Evidence Statements.
- Use mathematical items as a context.
- All are hand scored (can have a machined scored component). Equation Editor.
- Feed back into PARCC Sub-Claim D.
- Include a “Precision Point”. Attend to precision.

Common Across All Grades- Item Types

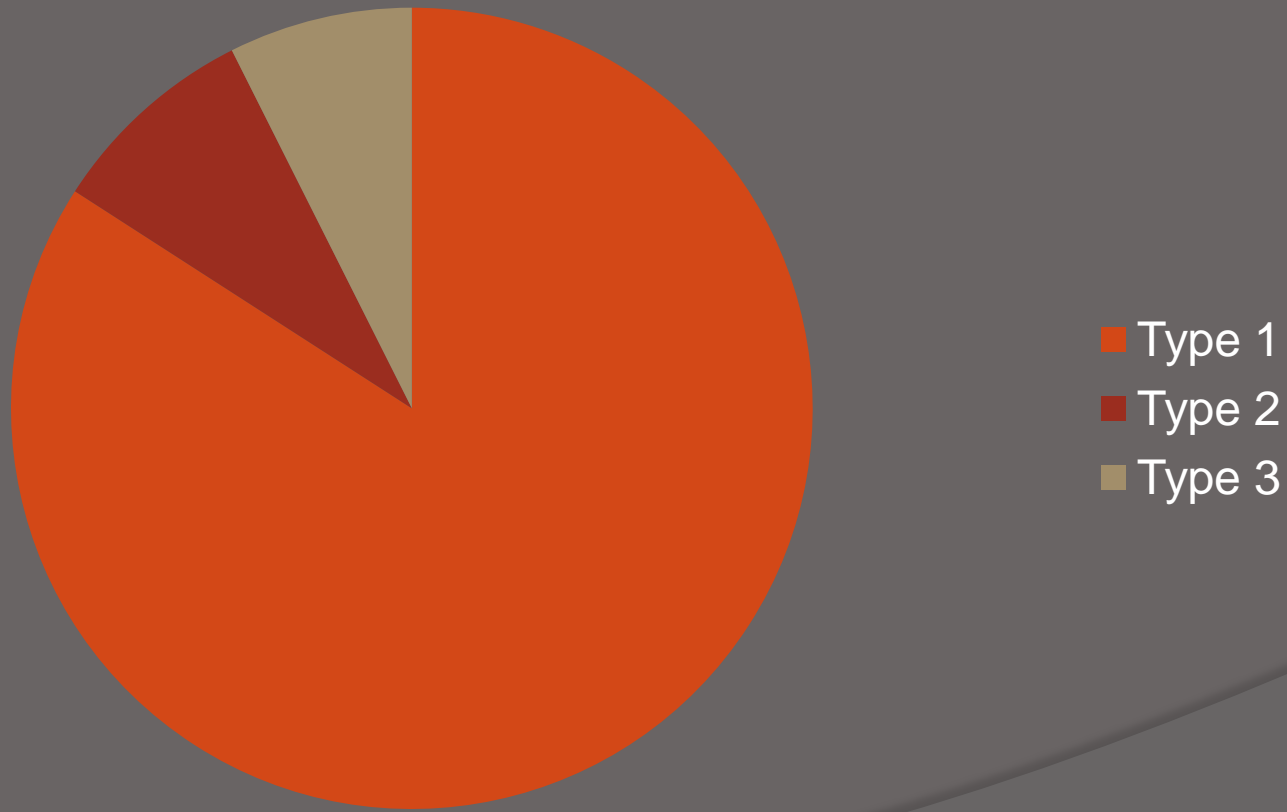
- See

<http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents> Spring 2016

PARCC Mathematics High Level
Blueprint

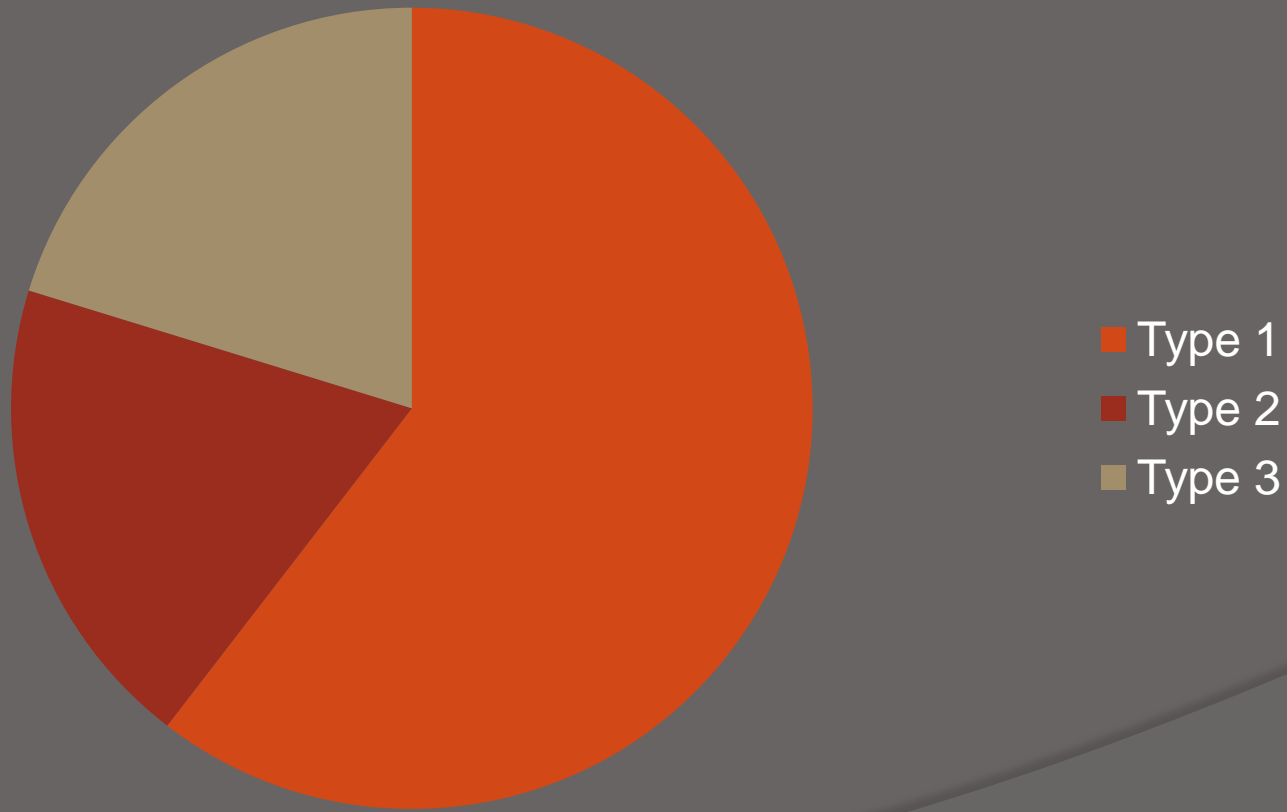
Common Across All Grades- Item Types

Item Types by Count



Common Across All Grades- Item Types

Item Counts by Points



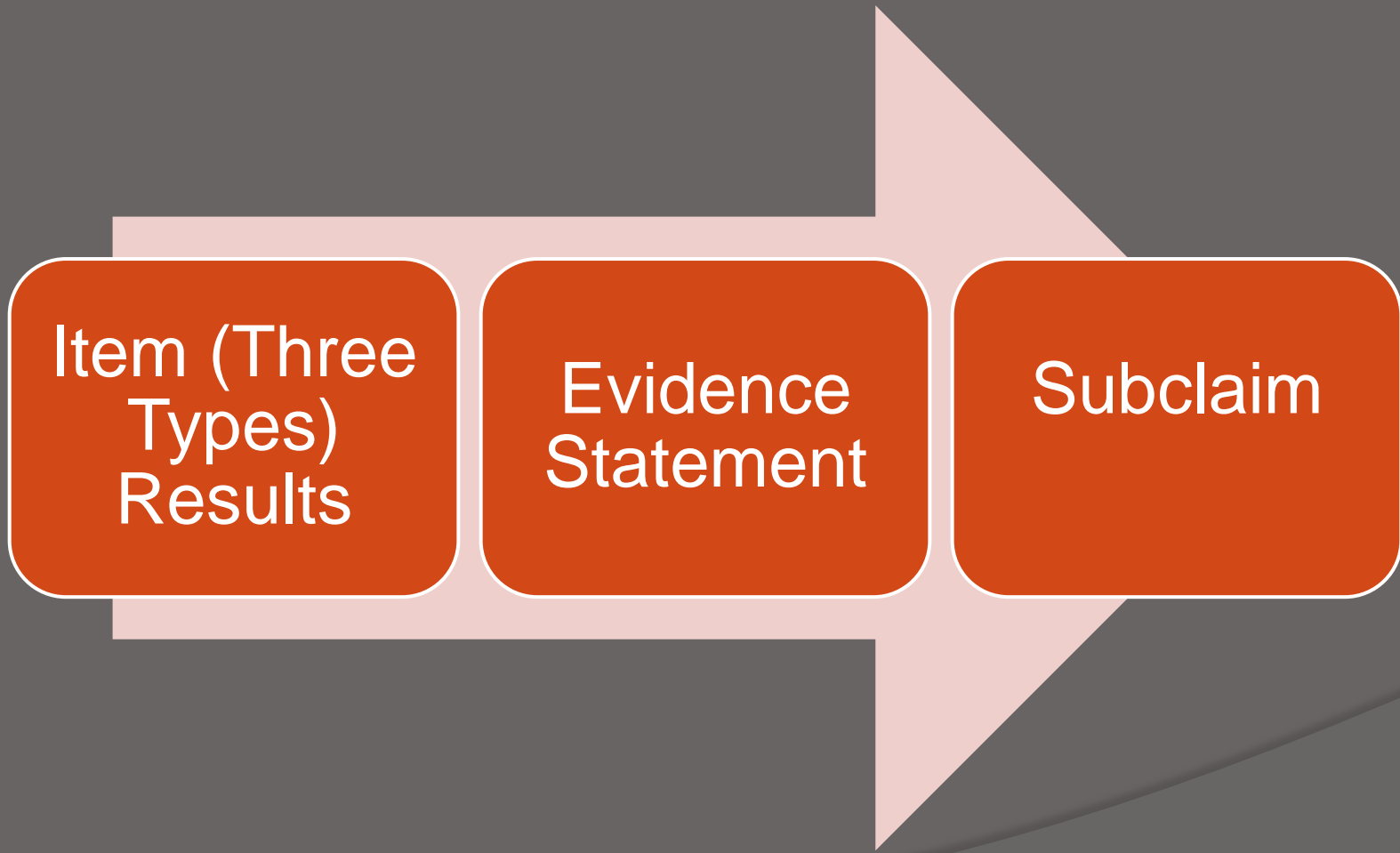
Percentage of Items by Type (operational only)

Type	6	7	8	AI	G	All
Count	38	38	36	42	43	41
I	81.6	81.6	80.6	81	81.4	80.5
II	10.5	10.5	11.1	9.5	9.3	9.8
III	7.9	7.9	8.3	9.5	9.3	9.8


Percentage of Score Points by Item Type

Type	6	7	8	AI	G	All
Total	66	66	66	81	81	81
I	60.1	60.1	60.1	60.5	60.5	60.5
II	21.2	21.2	21.2	17.3	17.3	17.3
III	18.2	18.2	18.2	22.2	22.2	22.2

Where Item Point Totals Go



CCSSM/PARCC Evidence Statements

- 
- Common Core State Standards for Mathematics
 - PARCC Evidence Statements
 - Assessment Items- All three types

Decoding PARCC Evidence Statements

- First Type- derived from a CCSSM Standard(s) at the same grade level, content related not process, feed back to Sub-Claim A or B. Includes “int” Evidence Statements.
- Second Type- coded with a “C”, reasoning Evidence Statements, feed back to Sub-Claim C.
- Third Type- coded with a “D”, modeling Evidence Statements, feed back to Sub-Claim D.
- Evidence Statement Tables can be found at <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>

Decoding PARCC Evidence Statements

PARCC Evidence Statements perform four functions:

- Content(int)- allow items to integrate content across grades, domains, or clusters and perhaps better define how items will assess a standard(suffix)
- Give structure to how reasoning(C) will be assessed and what mathematical content will be used
- Give structure to how modeling(D) will be assessed and what mathematical content will be used
- Define what High School domains, clusters and standards will be assessed in which course

PARCC Evidence Statements- Type 1

- CCSSM codes 7.EE.B.4.A
 - 7*- grade
 - EE* (Expressions and Equations)- domain, in middle school 5 per grade, high school has 6 conceptual categories
 - B cluster (Solve real-life and mathematical problems using numerical and algebraic expressions and equations.)
 - 4* standard in domain
 - A*- a finer division of the content of the standard

PARCC Evidence Statement Type

1

“Match”

- High School HSF.BF.A.2 (F.BF.2- see star)
- <http://www.corestandards.org/Math/Content/HSF/BF/>
- [?/Pathways](http://www.corestandards.org/Math/Content/HSF/BF/?/Pathways)
- http://www.corestandards.org/assets/CCSS_I_Mathematics_Appendix_A.pdf
- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>
- Compare 7.SP.C.5 CCSSM to 7.SP.5 ES
- Compare HSF.TF.B.5 to F.TF.5

PARCC Evidence Statement Type 1 “Suffix””

- <http://www.corestandards.org/Math/Content/7/EE/>
- 7.EE.B.4.A (CCSSM)
- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>

PARCC Evidence Statement Type

1 “Int”

“Int”

- “Int” modifies what immediately precedes it.
- Algebra II- F-Int.2, F-BF.Int.2, & HS.Int.3-3

PARCC Evidence Statement Type 2

- Always have a “C” code
- Feeds back into reasoning
- 8.C.6
- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>
- 7.RP.A, 7.NS.A, 7.EE.A
- Subject to a “precision point”

PARCC Evidence Statement Type 3

- Always have a “D” code
- Feeds back into modeling
- 6.D.1
- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>
- Subject to a “precision point”

Precision Point Deduction

- Only happens at top item score point
- Improper use of vocabulary
- Work shown not leading to correct/shown answer
- Run on equation

Items to Score Reporting

Items- Types 1, 2, and 3

Type 2, hand scored, aligned to C ES, report on reasoning

Types 1, machine scored, aligned to PARCC ES derived from CCSSM, report on content

Type 3, hand scored, aligned to D ES, report on modeling

College and Career Ready Designation

Score Reporting

- <http://www.parcconline.org/assessments/test-design/mathematics/math-test-specifications-documents>
 - Informational Guides- Alg. I and Grade 7
- <http://www.parcconline.org/search?q=model+content+frameworks+for+mathematics&Search=>

Resources

- Calculator Policy, Tools Policy, and Reference Sheets-
<http://www.parcconline.org/assessments/administration>
- Change in High School/Middle School Calculator Policy 10/2015; TI-Nspire CX
- Default on Virtual Graphing Calculator is radians, when change is made it stays (Geometry?)
- Work on Virtual Graphing Calculator stays, default in not clearing

Resources

- Practice Tests- <http://www.parcconline.org/search?q=practice+tests&Search=> Should be able to find Type II and Type III Items- have “Equation Editor”
- In the works- drawing tool
- Multiple Select Items- HS- number correct is not specified in stem; MS- number correct may be specified in stem; may only be one correct answer
- Release Items- a full test blueprint for each grade /course <https://prc.parcconline.org/> Includes a Scoring Guide to type 2 and 3 Items; Scoring Decisions

Resources

- See 8.NS.A.1 and 7.NS.A.2.D
- Range
- Rounding

Administration

- Who takes what assessment?
 - Algebra I and Geometry
 - Algebra II
 - No one takes two tests in one testing cycle
- <http://education.state.nj.us/broadcasts/2015/NOV/05/14263/Updated%20Grad%20Requirements%20with%20PARCC%20threshold%20scores.pdf>

Adminstration

Grade Level	Unit 1(Includes any NC items)	Unit 2	Unit 3
Grades 6-8	80 minutes	80 minutes	80 minutes
AI, G, & All	90 minutes	90 minutes	90 minutes

Administration

- Total Testing Time- Middle School 4 hours; high school 4.5 hours
- Units may be split into sections; may have a calculator active and non-calculator section in the same unit (but only in Unit #1)
- For Spring 2016- Test Nav 8.4

Score Reporting

- For all grades and courses overall student scores (Major Claim) will be reported on a scale from 650-850
- Overall Raw Scores will not be reported (explanation as to why- see technical report)
- Scores for Sub-Claims will be reported as “Meets or Exceeds Expectations”, “Nearly Meets Expectations”, or “Below Expectations” - no scale or raw score is reported

Score Reporting

Score Categories		
Level	Scale Score Band	Name of Category
1	650-699	Did Not Yet Meet Expectations
2	700-724	Partially Met Expectations
3	725-749	Approached Expectations
4	750-802	Met Expectations
5	803-850	Exceeded Expectations

Score Reporting

- For the Consortium of States Met and Exceeded Expectations are considered “On Track for College and Careers” or “Demonstrated a Readiness for the Next Grade Level”
- Each member state will define “passing” for its accountability purposes
- See Performance Level Descriptors (PLDs) here
<http://www.parcconline.org/assessments/test-design/mathematics/math-performance-level-descriptors>

Score Reporting

- Individual Score Reports (ISRs) will include State, District, and School mean scores; November 16, 2015
- School/District Reports November 2015-January 8, 2016
- January/February- A data base that can be queried by Sub-Claim (or below), Teacher Name, Student Demographics, School, District, etc.
- In a “normal year”, with Automated Scoring, scores are expect to be turned around in 42 days
- <http://www.parcconline.org/assessments/score-results>

Review

- PARCC Master Claim, Sub-Claims, Item Types, Evidence Statements vs. CCSSM, How item results feed back into score reporting, score reporting, test administration, etc.

PD Certificates, PowerPoint, or Questions

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