

# **APPENDIX R**

## **ANALYSES AND REPORTING DECISION RULES – MCAS**



# Analysis and Reporting Decision Rules (2013)

## Massachusetts Comprehensive Assessment System (MCAS)

This document details rules for analysis and reporting. The final student level data used for analysis and reporting is described in the “Data Processing Specifications.” This document is considered a draft until the Massachusetts Department of Elementary and Secondary Education (ESE) signs off. If there are rules that need to be added or modified after said sign-off, ESE sign-off will be obtained for each such rule.

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Year to Year Change Highlights:

## Decision Rules

### I. Contract Overview

#### A. Test Administration(s)

*This section lists all administrations covered by these decision rules.*

Admin ID	Release ID	Description	Test Grade(s)	Subject
4	1	Early ELA (June)	03-08, 10	ELA (English Language Arts)
	2	Math & Science MC (June)	03-08, 10	Mathematics
			05, 08	Science
	3	Preliminary Reporting (August)	03-08, 10	ELA (English Language Arts)
			03-08, 10	Mathematics
			05, 08	Science
			HS: 09, 10	STE Science: Biology, Chemistry, Introductory Physics, or Technology and Engineering
			03-08, 10	ELA (English Language Arts)
			03-08, 10	Mathematics
	4	Post-Discrepancy /Final Reporting (September/Dec)	05, 08	Science
			HS: 09, 10	STE Science: Biology, Chemistry, Introductory Physics, or Technology and Engineering

#### B. Deliverables List

*Client and internal deliverables for the standard assessment are listed. Specifications for each deliverable are detailed in the Deliverable Specifications section provided.*

Details Section	Deliverable	Type	Delivery	Release:			
				Early ELA	Math & Sci MC	Preliminary	Post-Discrepancy
II.B	Early ELA Megafile	.dat	FTP for State	✓			
Del. II.C	Math & Science MC Megafile	.dat	FTP for State		✓		
Del. II.D	Preliminary State Megafile	.dat	FTP for State			✓	
Del. VI	Missing Grade Span List	.xls	FTP for State			✓ (if needed)	
Del. IX	Discrepancy Table	SQL	Internal for OIT			✓	
Del. V	Alt and Standard Results	.xls	FTP for State			✓	

Details Section	Deliverable	Type	Delivery	Release:			
				Early ELA	Math & Sci MC	Preliminary	Post-Discrepancy
Del. X	Discrepancy Data File	.xls	FTP for State				✓
Del. II.E	Post-Discrepancy State Mega File	.dat	FTP for State				✓
Del. VII	State Results File	.dat	FTP for State				✓ (after rerun)
Del. III	Accommodations File	.dat	FTP for State				✓
Del. IV	Questionnaire File	.dat	FTP for State		✓		
Del. I	Writing Composition Images	pdf	Website	✓			
Rep. I	Student Results Labels	pdf	Shipped to District				✓
Rep. II	Student Report – School Copy	pdf	Shipped to District				✓
	Student Report – Parent Copy	pdf	Shipped to District				✓
Del.VIII	Student Report Translation Counts	.xls	Internal for PM				✓

**C. Processing Dependency on Alternate Assessment Data**

Students may test via the Standard Assessment or the Alternate Assessment for each subject required in their grade. During the Early ELA and Math/Science MC Releases, students testing via both assessments are processed as-is without reconciliation. For Preliminary Reporting data from both methods are reconciled by DA and Alternate Assessment results are reported. During the discrepancy period the ESE may override the Alternate Assessment results on an individual student basis and have their Standard Assessment results reported during Post-Discrepancy reporting.

**D. High School Sciences (STE)**

High School Science consists of four individual science subjects: Chemistry, Biology, Introductory Physics, and Technology and Engineering. Student level determinations in tblStudemo (including but not limited to: partstatus, attempt status, rptLEP status) are based on the individual science submitted and stored, as well as compiled into overall science determination fields.

## II. Internal Data Sources

### A. Test Information and Item Banking (iRef)

#### i. Test Design

Grade	Subject	Form(s)	Items included in Raw Score	Item Types
03-08, 10	Ela	00 = common + Matrix forms M= makeup WP <sup>1</sup>	Common	<i>Grades 04, 07, 10 only:</i> Composition Task (WR) <i>All Grades:</i> Comprehension (MC, OR, SR)
03-08, 10	Mat	00 = common + Matrix forms	Common	MC, OR, SA
05, 08	Sci	00 = common + Matrix forms	Common	MC, OR, SA
09, 10	STE Sciences	00 = common + Matrix forms	Common	MC, OR, SA
<sup>1</sup> Form 'M' is the make-up writing prompt. All students are scaled using one set of parameters and therefore considered to be taking the common prompt. dalref only contains the form 00 writing prompt.				

#### ii. Iref to dalref Translations (Measured Progress)

- IREF data for High School STE Sciences are stored as follows:
  - a. IREF Grade 09 'sci' = Technology and Engineering
  - b. IREF Grade 10 'sci' = Biology
  - c. IREF Grade 11 'sci' = Chemistry
  - d. IREF Grade 12 'sci' = Physics
- Biology is stored in dalref as 'bio' for grade 09 and 10, and again as 'sci' for grade 09 and 10 to support analysis and psychometrics.
- Chemistry, Physics, and Technology and Engineering are each stored in dalref at grade 09 and 10 as 'che', 'phy', and 'tec' respectively.
- Writing prompts are provided without the positional letter to distinguish the scoring dimensions on Form '01' (common prompt) and Form 'M' (make-up prompt).
  - a. The common prompt record is duplicated, and "C" or "T" is added to the position to support processing and analysis of the multiple scoring dimensions.
  - b. Form is set to '00' from '01'.
  - c. Equate is set to '0'. Psychometrics manages pulling equating data.
  - d. Type= 'WP'
  - e. Cat2 = 'CT' and 'CC' respectively.

iii. **Item Reporting Categories**(*daReportingCategoriesLookup, daSciRepCatCodes, tblIref*)

- Reporting Categories (2 character abbreviated code and corresponding text) are stored in daReportingCategoriesLookup (see *Appendix I.F*). Not all categories are tested at each grade, and may vary by year. The sort order listed is a generic order the categories will appear in when they exist.
- For sciences the reporting category is derived for each item from dalref.Cat2. The translation to the reporting category code is listed in *Appendix I.F* and stored in daSciRepCatCodes.
- For Math and ELA the 2-character reporting category code for each item is provided by PM by Item Number and stored in daReportingCategoriesCrosswalk.

iv. **Released Items**

- 50% of common items are released for 03-08 tests (all subjects).
- 100% of common items are released for High School tests (all subjects).
- Matrix or Field-Test items are not released.
- Released Items are identified in iREF as Released = '1'.

**B. School Information (iCore)**

i. **School Types**

School Types are calculated by DA based on the student’s official school (sprp\_sch):

SchType	Details	Description
'PRI'	Sprp_sch starts with 8 or 9.	Private Schools
'TES'	Sprp_sch starts with 6 or 7.	Test Site (or similar program)
'OTH'	Sprp_sch does not start with 6, 7, 8, or 9	All other schools

ii. **ReportCodes**

Information stored in ReportCode1-ReportCode4 is not applicable to MCAS reporting.

**C. Scoring**

i. **Multiple Choice Scores – Scanning**

Valid multiple choice scores are A, B, C, D, blank, and \* = multiple responses. All responses except “blank” are considered a response attempt.

ii. **Open Response / Short Answer Scores – Scoring**

Raw Data Value	Reported Value	Description	Point Value	Response Attempted
0-max pts	Final score	Open Response / Short Answer	0-max	✓
N	0	Not Scorable	0	✓
B		Blank response	0	

**iii. Writing Composition Scores – Scoring**

- The writing composition is scored on two dimensions:
  - a.** Topic Development (CT)
  - b.** Conventions (CC)
- Both dimensions are 100% double scored, and both scores are provided to Data Analysis (DA).
- If a dimension receives a scoring code instead of a score both scorer 1 and scorer 2 must agree.
- The final total score for each dimension is the sum of Scorer 1 + Scorer 2, calculated by DA, or the not scorable code.
- The following scores are valid for each individual score:

Raw Data Value	(tblStudem) WRCode (DA use)	Description	Reported Value	Point Value	Response Attempted
1-6	Null	Writing Composition – Topic Development	Final score	2-12	✓
1-4 (per scorer)	Null	Writing Composition – Conventions	Final score	2-8	✓
A	1	Insufficient Evidence	IE	0	✓
F	2	Language Other than English	LO	0	✓
O	3	Off Topic	OT	0	✓
P <sup>1</sup>	4	Plot Summary	PS	0	✓
I	5	Visible but Incomprehensible	VI	0	✓
B	6	Blank response		0	
N <sup>2</sup>	7	Not Scorable	NS	0	✓

<sup>1</sup> P is not valid in Grade 04 and 07.

<sup>2</sup> N is not valid during the Preliminary or Post-Discrepancy data releases (Release 3 and 4).

**D. Data Processing (DP)**

**i. Amend Flag (by subject)**

- The Amend flag for each subject is set by DP based on test booklet reconciliation, the ESE Breach List, and discrepancy resolution data on an individual student basis. The default Amend flag value for all students is '0'.
- See the Amend Code Definition Lookup (Measured Progress Document) for valid Amend Flag values and their impact on reporting.

**ii. Test Booklet Reconciliation**

- If a student has multiple answer booklets for the same subject from the same school with the same sessions attempted the student is considered a possible security breach until resolved:
  - a.** Only one record for the student is included for reporting for the subject, as determined in the Data Processing Specifications.
  - b.** The Amend flag for the subject is set to '1' for the reported record.
  - c.** The ESE may resolve the students and provide new instructions for reporting during subsequent reporting.
- If a student only submits an answer booklet for one subject then:
  - a.** The submitted subject is reported with no special treatment.

**b.** Any missing subjects are included in the data with blank bookletnumber(s) for the subject(s) and the student is considered to have not tested in the missing subject(s).

- If a student's only answer booklet for a subject is Void the data is included during preliminary reporting and the Void flag is set to '1' for the subject. During final reporting any unresolved Void books are suppressed.

**iii. Student Record Build Outs & View Determinations**

- A record is created for all students submitting an Alternate Assessment Portfolio in the corresponding grade view.
- A record is created in the applicable Grade 03-08 view(s) for any student in SIMS with stugrade in 03-08 and active\_test = '1'.
- A record is created in the Grade 10 view for any student in SIMS with stugrade in ('10','11','12','SP') and active\_test = '1' and summarize = '1' that has not submitted an answer booklet. The student is defaulted to Biology for Science.
- Students submitting a High School ELA or Math book are included in the Grade 10 view, regardless of stugrade.
- Students only submitting a High School Science answer booklet:
  - a.** with stugrade  $\geq$  '10' (including 'SP') are included in the Grade 10 view.
  - b.** with stugrade  $\leq$  '09' (including missing) are included in the Grade 09 science view.
- See Data Reconciliation and Audits for Data Processing rules for setting Summarize for these scenarios.

**iv. SciTry**

- For High School sciences DP sets the SciTry variable to indicate which science test was submitted for the current year:
  - a.** '1' = Biology
  - b.** '2' = Chemistry
  - c.** '3' = Physics
  - d.** '4' = Technology and Engineering
- If a student in the grade 10 view does not submit a science booklet and is built out, they are defaulted to Biology (scityry = '1').
- For grades 03-08 SciTry is not applicable and does not exist.
- DA calculates the final reporting SciTry value as rptScityry.

**E. Student Questionnaire Responses**

- i.* Student responses to questionnaire data are provided in the student level view in grades 08 and 10. These fields begin with a 'Q' and are used in populating the Questionnaire Data File deliverable.

### III. External Data Sources

#### A. Breach List

- i.* Students who are considered a security breach are provided by the ESE in the Breach List. These students are identified as Security Breach: Cheating and instructions for processing and reporting the tests on an individual case basis are provided.
- ii.* Data Analysis adds necessary Amend flag values (> '1') and instructions to the Amend Code Definition Lookup for each distinct scenario on the Breach List.
- iii.* Data Processing applies any necessary changes to the raw student record based on the ESE instructions, and applies the corresponding Amend Flag value from the lookup to the student for Data Analysis processing.

#### B. SIMS

- i.* Student demographic data is provided by the ESE for reporting use. Please see the Data Processing Specifications for internal validations and requirements of the data.
- ii. Summarize from SIMS*
  - Summarize is populated in SIMS as either '1' or '0' or blank:
    - a.* Summarize = '1' indicates that the student is expected to test in the subjects specified for their grade and should be included in aggregations (where applicable). Their results are included in accountability determinations.
      - Students in Grades 03-08 are all expected to test.
      - Students in Grade 10 (or students skipping grade 10 who have not yet been tested) are expected to test in Math and ELA, and are expected to test or to have prior scores for Science. They will have Summarize = '1'.
    - b.* Summarize = blank in SIMS is only applicable to students from the student directory that do not link to SIMS.
    - c.* Summarize = '0' indicates that the student is not expected or required to test at this time for accountability. These students are excluded from aggregations (except for grade 09 specific aggregations). Their results are not counted towards accountability determinations. This includes, but is not limited to: student grade 09 students, students that are retesting to meet graduation requirements in a subject they previously failed or missed, students that are retesting to increase their scores for scholarship purposes, or students that are new to Massachusetts.
  - See the Data Reconciliation section IV.A for Data Processing rules for determining the final Summarize source or default value in the views for DA based on Test Grade and SIMS data.
- iii. Banked Prior Achievement Level*
  - (Starting in 2012-2013) only applicable for Science. All references are specific to science; in the event that these determinations are needed for Math or ELA, the corresponding Math and ELA specific fields would be used.
  - *High\_sPerf* in SIMS contains the prior high achievement level to be considered during participation status assignment. ELA and Math fields are *High\_ePerf* and *High\_mPerf* respectively, and are expected to be blank for 2012-2013 for HS students with Summarize = '1'.

- SciNTL='1' indicates a student has previously participated in Science as a first-year LEP student. These students are considered to have prior results in Science during the participation status assignment hierarchy. Corresponding fields for Math and ELA do not exist currently in SIMS.
- All other fields with historical score or performance information, including the CD fields, are ignored during the participation status determination for students.
- Data are stored in DPRaw for DA in *[sub]PerfLevelHigh* (for all subjects) and *[sub]NTL* fields (for Science).

**iv. Additional Historical Results**

- SciTry\_Prev contains the HS STE Science subject previously taken by a student when applicable.
- Historical grades, scaled scores, and growth percentiles for the prior 3 years (as applicable) are provided in SIMS for ELA and Math (*[e/m/s]GradeYYYY*, *[e/m/s]ScaledSYYYY*, *[e/m/s]SGPYYYY*).
- Data are renamed by Data Processing using 'Yr3' as the most recent historical year and 'Yr1' as the earliest historical year (e.g. if current year = 2013 then Yr3 = 2012, Yr2 = 2011, Yr1 = 2010).
- The highest earned scaled score for each subject is provided for students in High School, as available, in SIMS as *high\_[e/m/s]ScaledS*. Data are stored in DPRaw for DA as *[sub]ScaledScore*. These scores are not used in any determinations, but are reported in the megafile and used for aggregate calculations when applicable.
- Data Processing translates all historical achievement levels that are no longer reported (e.g. Mastery) into currently reported achievement levels (this applies to all incoming historical achievement levels). See *Appendix D*.
- These scores are not used in any determinations by MP, but are reported in the megafile and/or student report.

**C. Student Growth Data**

- Current year student growth percentiles (and corresponding standard errors) are provided for ELA and Math at the student level from the ESE based on preliminary results. Data are stored in *daStudentGrowthPercentile*.
- If a student's raw score was unavailable during preliminary reporting or if there are changes to the student record during the discrepancy period that impact the calculation of growth, the student will not receive growth results during *tblScoredItem* processing.

**D. Grade Span Lookup**

- The ESE provides a grade span lookup for all public official schools. These are joined to student data based on *sprp\_sch* in *tblStudememo*.
- Measured Progress will provide the ESE with a list of any public schools that have student's assigned to them that are not included in the lookup, resulting in blank grade span data based on the Preliminary data release.
- All public schools must have a grade span for final post-discrepancy reporting. For earlier releases grade spans may be blank for schools missing from the lookup.

#### **E. Discrepancy Site**

- i.* Data from preliminary reporting is posted to the discrepancy site for clean up by the field and the department.
- ii.* See the Discrepancy Site Requirements for more details on which fields are available for editing at each user level.
- iii.* Data Processing re-processes data post-discrepancy to incorporate the updated information and discrepancy resolutions from the ESE for DA for final reporting.
- iv.* During final processing all information from the discrepancy site is considered final and is maintained, however, changes to certain fields require additional data audits and/or recalculation of student participation status to ensure consistency. See the Data Reconciliation section for these details.

#### **F. Alternate Assessment Override**

- i.* Based on preliminary results from the Alt and Standard Results data file, the ESE may identify any students whose Standard Assessment results should be reported instead of their Alternate Assessment results during final reporting (subject specific).
- ii.* The ESE will provide this list to Data Processing with the discrepancy resolutions.
- iii.* DP will set the amend flag to appropriately identify these students for DA.

### **IV. Data Reconciliation Audits**

*The following cleanup will be performed on student level data prior to analysis once demographic data and reconciled test information are compiled to ensure consistency. Calculations are performed in the order listed below, and audited values are used in each subsequent check and for all analysis, reporting, and deliverables as applicable:*

#### **A. Summarize**

- i.* If test grade is in 03-08, summarize is defaulted to '1' for all students, regardless of SIMS value.
- ii.* If test grade is '09' summarize is defaulted to '0' for all students, regardless of SIMS value.
- iii.* If test grade is '10':
  - If student grade is  $\leq$  '09':
    - a.* If the student submitted both Math and ELA (Alt or Standard), then summarize = '1'.
    - b.* Otherwise, summarize = '0'.
  - If student grade = '10', '11', '12', or 'SP' then summarize is taken from SIMS. If summarize is missing, or if student grade is missing, summarize is defaulted to '0'.
- iv.* The same rules are applied post-discrepancy, except summarize is taken from the updated Discrepancy data instead of SIMS. If summarize is updated during discrepancy reporting the participation status is set to blank to be reassigned.

#### **B. LEPFirst**

- i.* If LEPFirst is bubbled on any answer document then the student is considered LEPFirst='1'.
- ii.* If LEPFirst = '1' and YrsInMass > 1 then reset LEPFirst = '0'.
- iii.* Otherwise if LEPFirst = '1' and YrsInMass is null then update YrsInMass = '1'.

**C. LEP**

- i. If LEPFirst = '1' then update existing LEP to '1'.

**D. LEPFLEP**

- i. If LEPFirst = '1' or LEP = '1' or LEPFormer = '1' then update existing LEPFLEP to '1'.

**E. Official School and Official District Code**

**i. Terminology:**

- Discode = MP Testing Discode from DPRaw (See DP Specifications)
- SchCode = MP Testing SchCode from DPRaw (See DP Specifications)
- SendDiscode = Sending District from SIMS
- SimsDisCode = Official Discode from SIMS
- SimsSchCode = Official SchCode from SIMS
- Exceptions List = "Assigning sprp\_dis and sprp\_sch: Exceptions List" (*Appendix A*)

**ii. Official District (sprp\_dis)**

- If the student's testing discode begins with a 6, 7, 8, or 9 and the testing school (discode+schcode) is not listed on the *Exceptions List* then the official district is the sending district from SIMS (senddiscode) it exists, concatenated with four zeroes at the end. If senddiscode is blank the official district is set to '99999999'.
- If the student's testing discode+schcode is on the *Exceptions List* (System+School) then the official district is the sprp\_dis from the *Exceptions List*.
- Otherwise the official district is the testing district (discode) code concatenated with four zeroes at the end.

**iii. Official School (sprp\_sch)**

- If the student's testing district code begins with a 6 or 7 and testing school (discode+schcode) is not listed on the *Exceptions List* then the official school is the official school code from SIMS (simsDisCode + SimsSchCode). If the simsDisCode and simsSchCode are blank the official school is set to the testing school code (discode+schcode).
- If a student is from a collaborative school (testing district code begins with '95') then the official school is = 05XX0000 where XX is the 3rd and 4th digit of the testing district code
- If the student's testing school (discode+schcode) is on the *Exceptions List* (System+School) then the official school is the sprp\_sch from the *Exceptions List*.
- Otherwise the official school is the testing school (discode+schcode).

**F. YrsInSch and YrsInDis**

- i. If sprp\_sch or testing school (discode+schcode) = the official SIMS school code from June SIMS (simsDisCode + simsSchCode) then use YrsInSch value from SIMS. Otherwise set YrsInSch = '1'.
- ii. If sprp\_dis = SendDiscode+0000 from June SIMS then use the YrsInDis value from SIMS. Otherwise set YrsInDis = '1'.

- G. OctEnrol** (*enrolled in same location since October*)
- i. If sprp\_sch or testing school (discode+schcode) = the official SIMS school code from June SIMS (simsDiscode + simsSchcode) then OctEnrol = Oct\_off from SIMS. Otherwise set OctEnrol= '0'.
- H. ConEnrol** (*continuously enrolled for 2 years*)
- i. Only populated for students in the grade 10 view, otherwise blank.
  - ii. If sprp\_sch or testing school (discode+schcode) = the official SIMS school code from June SIMS (simsDiscode + simsSchcode) then use con\_enr\_sch value from SIMS. Otherwise set con\_enr\_sch = blank.
  - iii. If sprp\_dis = SendDiscode+0000 from June SIMS then use the con\_enr\_dis value from SIMS. Otherwise set con\_enr\_dis = blank.
  - iv. ConEnr\_sta is taken from SIMS.
- I. Historical Scores and Growth for Reporting** (*Yr1, Yr2, Yr3*)
- i. If a student's historical GradeYr3 is not the current test grade minus 1 year, then the Math and ELA scaledscoreYr3 and sgpYr3 are set to blank in tblStudemo.
  - ii. If a student's historical GradeYr2 is not the current test grade minus 2 years, then the Math and ELA scaledscoreYr2 and sgpYr2 are set to blank in tblStudemo.
  - iii. If a student's historical GradeYr1 is not the current test grade minus 3 years, then the Math and ELA scaledscoreYr1 and sgpYr1 are set to blank in tblStudemo.
  - iv. Example: if a student's grade is 08 and gradeYr3 is not 07, scaledscoreYr3 and sgpYr3 are set to blank for Math and ELA. If gradeYr2 is 06, scaledscoreYr2 and sgpYr2 are reported.
- J. SciTry\_Prev** (*previous science subject tested*)
- i. If High\_sPerf is not blank or SciNTL = '1', then SciTry\_Prev should be populated in SIMS. If it is missing it will be defaulted to Biology (SciTry\_Prev = '1').

## V. Student Participation and Reporting Status

### A. Basic Definitions

*The following criteria are defined for use during the participation status assignment hierarchy. Students may meet the criteria for multiple definitions, but during the hierarchy are assigned a single final participation status.*

- i. **Standard Test Attemptedness** (*by subject*)
  - A student is considered to have **met attemptedness** if they have a response attempt for at least one common item in each test session.
    - a. The writing prompt is considered a session within the ELA test (when applicable) and an attempt must be present for a student to have met attemptedness in ELA.
  - A student is considered to have **partially attempted** if they have a response attempt to at least one common item, but they do not have a common item attempted in every session (has at least 1 session with no common items attempted).
  - All other students are considered to have **not attempted**.

ii. **Not Tested Indicators** (by subject)

The following Not Tested reasons may be bubbled on the student's answer booklet.

- Absent (ignored)
- Medically Excused Absent (MED)

iii. **Transfer**

- The transfer bubbles (Added and Removed) on the SRB are ignored.
- If Active\_Test ≠ '1' the student is considered a transfer student.

iv. **Tested Alternate Assessment** (by subject)

- For the purpose of determining student participation status, students in the Alternate Assessment data with the following participations statuses are considered Alternate Assessment during preliminary and final reporting:
  - a. Alt PartStatus = 'A': Tested Alternate Assessment.
  - b. Alt PartStatus = 'C': Tested Alternate Assessment Accountable Retester.
  - c. Alt PartStatus = 'W': Tested Alternate Assessment Not-Accountable Retester.
  - d. Alt PartStatus = 'N': Breach Alternate Assessment (Alt Amend Code = '26').
- If a student is listed in the Alternate Assessment Override, the Alternate Assessment Amend Code is set to suppress the Alternate Assessment results and set the Alt PartStatus to 'Z'. This allows for the Standard Assessment results to be reported.

v. **Void** (by subject)

- Students whose only answer booklet has been voided (Void[sub] = '1') are considered Void. Booklets that remain void post-discrepancy are suppressed along with all corresponding data.
- For grades 05 and 08 Science the void indicator is VoidMat because Math and Science share a single answer document.

vi. **Prior Results** (by subject)

Prior results currently only apply to HS Science. All references to *High\_sPerf* and *SciNTL* should be considered subject specific in the event that ELA and Math are updated to allow for prior result determinations.

- **No Prior Results**  
Students with a blank High\_sPerf and sciNTL ≠ '1' from SIMS are considered to not have prior results.
- **Previously Passed**  
Students with a High\_sPerf from SIMS in ('A', 'P', 'NI', 'A\_A', 'P\_A', or 'NIA') are considered to have previously passed the subject, regardless of sciNTL value.
- **Previously Failed**  
Students with a High\_sPerf from SIMS in ('F', 'PRG', 'EMG', 'AWR', and 'INP') are considered to have previously failed the subject.
- **Previously First Year LEP**
  - a. Students with SciNTL = '1' from SIMS are considered to have previously participated in science as a First Year LEP student.
    - If High\_sPerf is not a Previously Passed status and SciNTL = '1', the student is considered Previously Failed.

## B. Participation Status Assignment Hierarchy (by subject)

- i. **Breach List** (Amend Flag > '1' assign participation status per standard hierarchy, all rules are then trumped by specific breach instructions)
- ii. **Void**
  - (Preliminary Partstatus = 'H')
  - Data from booklets that remain void post-discrepancy are suppressed from final reporting.
- iii. **Multiple Answer Booklets** (Amend='1')
  - (Preliminary PartStatus='I').
  - (Final PartStatus='N').
- iv. **Summarize = '1' or TestGrade = '09'**:
  - Tested Alternate Assessment - the student's participation status is taken from the Alternate Assessment Data:
    - a. **Tested Alternate Assessment** (PartStatus = 'A').
    - b. **Tested Alternate Assessment Accountable Retester** (PartStatus = 'C')
  - Without prior results:
    - a. If the student *meets attemptedness* then: **Tested** (PartStatus = 'Z').
    - b. If the student *partially attempted or did not attempt*:
      - If subject = 'ELA' and First Year LEP then: **Not Tested LEP** (PartStatus='F').
      - Otherwise if the student is a Transfer student then: **Not Tested Transfer** (PartStatus='D').
      - Otherwise if MED then: **Not Tested Medically Excused** (PartStatus='G').
      - Otherwise: **Not Tested Absent** (PartStatus='E').
  - Previously Failed:
    - a. If the student *meets attemptedness* then: **Tested Accountable Retest** (PartStatus='Y').
    - b. If the student *partially attempted or did not attempt* then: **Not Tested Accountable Retest** (PartStatus='L').
  - Previously Passed:
    - a. (Preliminary processing only) If the student *meets attemptedness or partially attempted* then: **Ineligible Accountable Retest, Previously Passed** (PartStatus='P').
    - b. If the student *did not attempt* (or during final processing: if the student *did not attempt, partially attempted or meets attemptedness*) then: **Previously Passed** (PartStatus = 'K').
- v. **Summarize = '0'** (regardless of any prior test results):
  - Tested Alternate Assessment then the student's participation status is taken from the Alternate Assessment data: **Tested Not Accountable Alternate Assessment** (PartStatus = 'W').

- Otherwise, if the student *meets attemptedness* then: **Tested Not Accountable (Retest)** (PartStatus = 'R').
- Otherwise, if the student *partially attempted* then: **Partially Tested Not Accountable (Retest)** (PartStatus = 'B').
- Otherwise if the student *did not attempt* then: **Not Tested Not Accountable (Retest)** (PartStatus = 'J').

### C. Participation Status Summary

Summarize	Prior Results	Description	Part Status	Test Stat*	Discrepancy Site			
					Code	Text		
n/a	n/a	Breach	<i>Breach Instructions are applied at the student level regardless of participation status and are identified by Amend &gt; '1'</i>					
		Void (Preliminary Only)	H	NTO	VAB	Void Answer Booklet		
		Multiple Answer Documents (Security Breach)	Preliminary	I	NTO	DUP	Multiple Answer Booklets	
			Final	N	NTO	n/a	n/a	
		Invalidated (Only assigned via Breach List)	N	NTO	INV	Invalidated		
1 (or Grade=09)	n/a	Tested Accountable Alternate Assessment	A	T*	ALT	Tested Alternate Assessment		
		Tested	Z	T*	STD	Tested Standard		
		Not Tested (/Partially Tested) – LEP (ELA Only)	F	NTL	LEP	Not Tested First Year LEP		
		Not Tested (/Partially Tested) - Transfer	D	NTO	TRN	Transferred		
		Not Tested (/Partially Tested) – Medically Excused Absent	G	NTM	MED	Medically Excused		
		Not Tested (/Partially Tested) - Absent	E	NTA	ABS	Absent		
	Prev. Failed	Tested Alternate Assessment Accountable Retest	C	TR*	ALR	Retested Alternate Assessment		
		Tested Accountable Retest	Y	TR*	RET	Retested		
		Previously Failed (Not Tested /Partially Tested Accountable Retest)	L	NTO*	PRF	Previously Failed		
		Ineligible Accountable Retest – Previously Passed & Retested (Preliminary Only- final see K)	P	NTO*	PPR	Previously Passed & Retested		
		Previously Passed	K	NTO*	PAS	Previously Passed		
		0	Any	Tested Not Accountable Alternate Assessment (Retest)	W	TR*	ALN	Retested Alternate Assessment Not Aggregated
				Tested Not Accountable (Retest)	R	TR*	REN	Retested Not Aggregated
Partially Tested Not Accountable (Retest)	B			NTO*	INC	Incomplete		
Not Tested Not Accountable (Retest)	J			NTO*	DNT	Did Not Test		

\* Student results achieved while First-year LEP, or students currently First-year LEP (see rptLEPFirst calculation) are reported with TestStat = "NTL" in place of listed TestStat (all subjects). See Calculations by Participation Status Summary Table for more details.

#### D. Post-Discrepancy Participation Status Assignment

- i. DA only “recalculates” participation statuses for students with a blank participation status during post-discrepancy processing. All other participation statuses are maintained as they are provided from the discrepancy data.
- ii. DP will reset participation statuses to blank prior to final processing for the following discrepancy events so DA will recalculate a new status:
  - Student test grade is changed.
  - Summarize is changed (not applicable in unchanged grades 03-08, 09).
  - First year LEP status is changed.
  - Answer document is still void (entire book is suppressed).
  - Answer document(s) are added or removed for a student.
  - Prior results (*high\_xPerf*, *sciNTL*) are changed for a student.

### VI. Calculations

#### A. Rounding Rules

Calculation	Rounded (to the nearest)
Student Counts	Whole Number
Percents	Whole Number
Median Growth Percentile	Whole Number

#### B. Psychometric Input

##### i. *Item Analysis Interactions Specific for MCAS*

- Below are MCAS-specific conditions programmed within the standard Item Analysis System (DAMS). Any changes to the handling of these cases need to be vetted against this system to ensure accurate scoring and item calculations.
- **Multi-Day Testing (High School ELA and Math):**
  - a. High School ELA and Math tests are administered over a two-day period. As a result, students are assigned a Day 1 Form for the first day, and a Day 2 form for the second day. Both forms are provided in the views.
  - b. The IA dataset stores both forms individually as *[sub]form1* and *[sub]Form2*. Resulting scored data contains the concatenation of the two forms creating the unique total form (4 characters) for each student.
  - c. The table *daDayForm* holds the first item position on the 2<sup>nd</sup> day form to support the Item Analysis program. See *Appendix E*.
- **Writing Prompts**
  - a. If the contract nickname begins with “MCAS” and the subject is “ELA” and the total possible points is 8 or higher ( $PVMax \geq 8$ ) then student scores of ‘0’ will be reset to blank in the matrix files for psychometrics.
  - b. This does not impact student scores or output scored datasets, but removes the response from the psychometric data for equating and scaling, as required.
  - c. This requirement only applies to the writing prompts. In the future, if any non-writing prompt items meet the conditions above the handling of these items for the matrix file will need to be discussed.

**ii. Item Analysis Student Inclusion/Exclusion (Ex[sub]) & Matrix Files**

- Only first time accountable test takers that are not first-year LEP (Partstatus = 'Z' and rptLEP[sub] are included for item analysis and psychometric equating files (Ex[sub] = '0').
- All other students are excluded (Ex[sub] = '1').
- For High School Science (STE's) if an included student does not attempt at least one of the first 10 items (common or matrix/field-test) they are excluded (Exsci = '1').
- DA Processing for High School Sciences (STE's):
  - a. IA datasets are created for each individual STE subject for all hand offs.
  - b. Psychometric Equating Hand-off:
    - Data Processing provides one Grade 10 view with all High School Science testers. Grade 09 students are identified via Stugrade = '09' for partstatus assignment.
  - c. Scoring and Reporting Hand-off (Release 3 and 4):
    - Grade 09 and 10 are processed in separate views and IA datasets.
  - d. Item Stats (Release 4):
    - Grade 09 and 10 data are in separate views but combined into one Grade 10 IA dataset for each STE subjects.

**C. Scaling, Equating, and Item Statistics**

**i. Dif Stats Threshold**

- 07 Math:
  - a. 90 for nonLEPFLEP vs. LEPFLEP
  - b. 100 for all other combinations
- 08 Math:
  - a. 75 for nonLEPFLEP vs. LEPFLEP
  - b. 100 for all other combinations
- All other 03-08 Grades/Subjects
  - a. 100 for all combinations
- HS Sciences (09 and 10 combined):
  - a. 50 for all combinations.
- HS ELA and Math
  - a. 50 for nonLEPFLEP vs, LEPFLEP
  - b. 100 for all other combinations

**ii. Scaling**

- Scaling is done using a lookup table provided by psychometrics and the student's overall raw score (by subject).
- The scaled score lookup achievable scaled scores are always even numbers and are between 200 and 280 every year.
- Psychometrics provides the High School Science lookup for Grade 09 and 10 in each subject. The grade 09 lookups are identical to the grade 10 lookups.

**iii. Achievement Level Coding**

- The MCAS Standard Assessment has four possible achievement levels, assigned to students using the raw to scale score lookup provided by psychometrics.
- Needs Improvement (Standard PerfLevel = '2') or higher is considered "Passing" for the Standard Assessment.
- Alternate Assessment achievement levels are translated to their corresponding standard assessment achievement level prior to computing any aggregate calculations that include alternate assessment achievement level results as shown below:

<b>MCAS Achievement Level</b>	<b>MCAS Description</b>	<b>MCAS Alt Achievement Level</b>	<b>MCAS Alt Description</b>
1*	03-08: Warning (W) HS: Failing (F)	7	Incomplete Portfolio (INP)
		8	Awareness (AWR)
		9	Emerging (EMG)
		10	Progressing (PRG)
2	Needs Improvement (NI)	11	Needs Improvement (NIA)
3	Proficient (P)	12	Proficient (P_A)
4	Advanced (A)	13	Advanced (A_A)

1\* In grades 03-08 Achievement level '1' is stored as '6' by MP but aggregated as '1'.

**D. Student Level Calculations**

**i. Calculations by Participation Status Summary**

Summarize	Prior Results	Description	Part Stat	rptLEP[sub] <sup>1</sup>	Test Stat	Current Year Reporting Results					Aggregation and Accountability Results					
						Raw Scores	Item Scores	rScaled Score (MP Reports)	Achievement Level (rPerfLevel, mfPerfLev)	mfScaledScore	Achievement Level (Perf2/mfPerf2)	CPI / Numin	Assess <sup>2</sup>			
														('---' indicates data are blank)		
		Breach	<i>Breach Instructions are applied at the student level regardless of participation status and are identified by Amend &gt; '1'</i>													
	Void (Preliminary Only)		H	any	NTO	earned	earned	---	VAB	---	---	---	0 <sup>3</sup>			
	Multiple Answer Documents (Security Breach) :															
	Preliminary		I	any	NTO	earned	earned	---	DUP	---	---	---	---			
	Final		N	any	NTO	---	---	---	INV	---	---	---	---			
1 (or Grade=09*)	Tested Alternate Assessment		A	0	T	---	---	---	earned (Alt)	---	earned (Alt)	✓	1			
				1	NTL						---	---	---	---		
	Tested		Z	0	T	earned	earned	earned	earned	earned	earned	✓	1			
				1	NTL			Pass: earned Else: ---	Pass: earned Else: LEP	Pass: earned Else: ---	---	---	1			
	Not Tested /Partially Tested – LEP (ELA Only)		F	1	NTL	earned		HS Pass: earned Else: ---	HS Pass: earned Else: LEP	HS Pass: earned Else: ---	---	---	1			
	Not Tested /Partially Tested - Transfer		D	0 (M/S 1)	NTO						---	---	---	---	---	---
	Not Tested /Partially Tested – Medically Excused Absent		G	0 (M/S 1)	NTM						---	---	---	---	---	0
	Not Tested /Partially Tested - Absent		E	0 (M/S 1)	NTA						---	---	---	---	---	0
	F	Tested Alternate Assessment Accountable Retest		C	0	TR	---	---	---	earned (Alt)	---	highest (Alt)	✓	1		
					1	NTL						---	---	---	---	
F	Tested Accountable Retest		Y	0	TR	earned	earned	earned	earned	highest	highest	✓	1			
				1	NTL			Pass: earned Else: ---	Pass: earned Else: LEP	Pass: highest	---	---	1			

Summarize	Prior Results	Description	Part Stat	rptLEP[sub] <sup>1</sup>	Test Stat	Current Year Reporting Results					Aggregation and Accountability Results		
						Raw Scores	Item Scores	rScaled Score (MP Reports)	Achievement Level (rPerfLevel, mfPerfLev)	mfScaledScore	Achievement Level (Perf2/mfPerf2)	CPI / Numin	Assess <sup>2</sup>
								Else: ---		Else: ---			
F	Previously Failed (Not Tested /Partially Tested Accountable Retest)	L	0	NTO	Pass: earned	Pass: earned	Pass: earned	Pass: earned Else: PRF	highest	highest	✓	1	
			1	NTL	Else: ---	Else: ---	Else: ---	Pass: earned Else: LEP	Pass: highest Else: ---	---	---	1	
P	Ineligible Accountable Retest – Previously Passed & Retested (Preliminary Only)	P	0	NTO						prior	prior	✓	1
			1	NTL	earned	earned	---	INE		prior	---	---	1
P	Previously Passed	K	0	NTO						prior	prior	✓	1
			1	NTL	---	---	---	PAS		prior	---	---	1
0	Tested Not Accountable Alternate Assessment (Retest)	W	0	TR									
			1	NTL	---	---	---	earned (Alt)	---	---	---	---	
	Tested Not Accountable (Retest)	R	0	TR			earned	earned	earned				
			1	NTL	earned	earned	Pass: earned Else: ---	Pass: earned Else: LEP	Pass: earned Else: ---	---	---	---	
	Partially Tested Not Accountable (Retest)	B	0	NTO									
			1	NTL	earned	earned	Pass: earned Else: ---	Pass: earned Else: LEP	Pass: earned Else: ---	---	---	---	
	Not Tested Not Accountable (Retest)	J	0	NTO									
			1	NTL	---	---	---	DNT LEP	---	---	---	---	

<sup>1</sup> rptLEP is LEPFirst for all grades/subjects/participation statuses that do not have prior results. It is a calculated combination of LEPFirst and prior LEP First status for Accountable partstatuses with prior results. See calculations section for details.

<sup>2</sup> Assess exceptions for ELA: there is an additional condition of participation on the Access test. See calculation specifics for details.

<sup>3</sup> If Summarize = 1 then Assess = 0. If Summarize = 0 then Assess is blank.

\*Grade = 09 students are assigned participation statuses as if Summarize = '1'. Perf2, CPI, Numin, and Assess are populated for calculations but set to blank in the Megafile deliverable.

Note: "(M/S 1)" indicates that rptLEP[sub] may also be '1' in Math and Science for the listed participation statuses.

- ii. **StudentID** (*tblStudemo*)
  - StudentID = rptStudentID from DPRaw (verified SASID).
  - For non-demonstration students, if StudentID begins with '10' it was generated by DP for linking purposes, and will be set to blank for reporting.
- iii. **Accommodations and Accommodation Footnotes** (*tblStudemo*)
  - If a student did not attempt any items in a subject the corresponding raw accommodation indicators (from DPRaw) are *ignored* during the determination of accommodations and footnotes for reporting. Otherwise, if a student attempts at least one item in a subject the corresponding raw accommodation indicators are evaluated:
    - a. For ELA Comprehension accommodations (ElaAccom:), all ELA items (common, matrix, field-test) except for the writing prompts are considered in determining if items were attempted.
    - b. For ELA Composition accommodations (CompAccom:), only the writing prompts are considered in determining if items were attempted.
    - c. For Math accommodation (MatAccom:) all items (common, matrix, and field-test) are considered.
    - d. All of the underlying accommodation fields in DPRaw are maintained as provided, regardless of student attempt status.
  - Standard Accommodations:
    - a. Accom\_l = '1' if the student received any accommodations in ELA Reading Comprehension, otherwise set it to blank.
    - b. Accom\_c = '1' if the student received any accommodations in ELA Composition, otherwise set it to blank.
    - c. Accom\_m = '1' if the student received any accommodations in Math, otherwise set it to blank.
    - d. Accom\_s = '1' if the student receive any accommodations in Science, otherwise set it to blank.
  - Non-Standard ELA Accommodation (MP: elaNSAFooter):
    - a. If elaaccom26='1' then elaNSAFooter = '1'.
    - b. If compaccom29 = '1' then elaNSAFooter = '2'.
    - c. If both elaaccom26 = '1' and compaccom29 = '1' then elaNSAFooter = '3'.
    - d. Otherwise elaNSAFooter = '0'.
  - Non-Standard Math Accommodation (MP: matNSAFooter):
    - a. If mataccom30='1' then matNSAFooter = '4'.
    - b. Otherwise matNSAFooter = '0'.
  - For Non-Standard Accommodation Student Report text based on elaNSAFooter and matNSAFooter see *Appendix I.G.*
- iv. **Attempt Status (Attempt[*sub*])** (*tblStudemo*)
  - Attempt[*sub*] indicates if a student fully meets attemptedness, partially attempted, or did not attempt the subject, based on the definition of attemptedness in *section V.A.i*
  - Calculated for all participation statuses, values:
    - a. 'F' = Fully Meets Attemptedness

- b. 'P' = Partial Attempt
- c. 'N' = No Attempt
- d. Blank = subject is not assessed at the grade.

v. **ParentLetter** (*tblStudemo*)

- The Parent Letter flag is set to '0' to indicate that a student should not receive a Parent/Guardian Report or Student Results Label in the following cases:
  - a. If a student is classified as Tested Alternate Assessment (PartStatus in 'A','C','W') in all required subjects for their grade then ParentLetter = '0'.
- Class Pack Identifiers (Measured Progress) for printing the School and Parent version of the Parent/Guardian Report as we as the Student Results Labels are produced for all students with ParentLetter = '1'.

vi. **Reporting First Year LEP Status (rptLEP[sub])** (*tblStudemo*)

- RptLEP is determined for each subject based on current year partstatus, test attemptedness, First Year LEP status, and Prior First Year LEP Status (where applicable) in order to determine if a student's results should be considered achieved while under First-Year LEP status or as currently First-year LEP. This takes into consideration the prior status of the student when prior results are eligible for accountability (currently only allowed in Science).
- For all participation statuses that are considered Not Accountable rptLEP[sub] = LEPFirst.
- Otherwise if the student is considered Accountable then:
  - a. If the student has prior results:
    - If the student meets attemptedness this year (Attempt[sub] = 'F') then: rptLEP[sub] = LEPFirst.
    - If the student partially attempts or does not attempt this year (Attempt[sub] = 'P' or 'N') then:
      - rptLEP[sub] = '1' if either LEPFirst = '1' or [sub]NTL = '1'.
      - Otherwise rptLEP[sub] = '0'.
  - b. If the student does not have prior results then rptLEP[sub] = LEPFirst.

vii. **Alt** (*tblStudemo*)

- [e/m/s]Alt is set to '1' if a student is considered Tested or Retested Alternate Assessment (accountable or not accountable; PartStatus in 'A','C','W'). Otherwise it is set to '0'.

viii. **TestStat** (*tblStudemo*)

- [e/m/s]TestStat is populated based on the student's participation status, rptLEP status, and possible breach codes for the subject. It is not dependent on scores. See the Participation Status Summary table for values.

ix. **SpecialEd** (*tblStudemo*)

- If a student is considered Tested or Retested Alternate Assessment (accountable or not accountable) in any subject (eAlt, mAlt, or sAlt = '1') then SpecialEd = '1'. Otherwise it is taken from Sped\_off in SIMS. If it is blank it is defaulted to '0'.

- x. **Sims CD** (*tblStudemo*)
  - The latest CD value from SIMS for Math, ELA, and Science is stored for each student as-is, without any additional formatting as SIMS\_*[sub]*CD.
- xi. **rptSciTry** (*tblStudemo, updated during tblScoredItem*)
  - SciTry is provided by Data Processing. For students that Previously Failed the SciTry will reflect the current-year science subject submitted and any submitted items will be scored.
  - DA will set SciTry to the Alt SciTry value for Alternate Assessment science students (SciPartstatus in ('A','C','W', Alt 'N')).
  - rptSciTry is then set to SciTry for tblStudemo and item analysis.
  - During tblScoredItem processing if it is determined that a student's prior science results should be reported (instead of the current test), rptSciTry will be updated to reflect the prior science subject and any item responses from the current test will be blanked.
- xii. **tblref** (*ItemOrder, RepCatCode, Released*)
  - The released item order is the order in which items appear in the ESE's Released Item Document, stored in tblref.ItemOrder.
    - a. Includes common, non-flawed items only.
    - b. Items are ordered such that released items appear first, in order of test position, followed by unreleased items in order of test position.
    - c. Writing prompts are stored as WPCC and WPCT. WPCT appears as the first released item, followed by WPCC, then all items in ELA on the student report.
    - d. Item responses in tblScoredItem are stored according to ItemOrder, not position.
  - Released = daoref.Released (where '1' = released item, '0' = unreleased item).
  - RepCatCode is the 2-character reporting category code for each item:
    - a. Assigned by Item Number for Math and ELA using daReportingCategoriesCrosswalk.
    - b. Assigned by daoref.Cat2 for Science using daSciRepCatCodes.
- xiii. **tblPointsPossible** (*Reporting Category Points Possible, RepOrder*)
  - Common, non-flawed items (from tblref) are summarized by reporting category and at the total test level in tblPointsPossible by grade, subject, and reporder.
    - a. Points = the total points possible in each reporting category by grade and subject and reporting category.
    - b. RepOrder = the reporting category order.
      - The unique list of existing reporting categories in a grade and subject are ordered by the generic sort order from daReportCategoryLookup, and re-numbered from 1-max number of reporting categories.
      - The total test is set as RepOrder = 0.
    - c. RepCatCode is the 2-character reporting category code, and RepCatText is the associated text. For RepOrder = '0' RepCatCode = '00', and RepCatText = 'Total'.

xiv. **Raw Scores** (*tblScoredItem*)

- Writing Composition Task Total Dimension Scores
  - a. WPCT is the total raw score for the Topic Development dimension of the writing composition task is Scorer1 CT + Scorer2 CT.
  - b. WPCC is the total raw score for the Conventions dimension of the writing composition task is Scorer1 CC + Scorer2 CC.
  - c. If a student does not receive reported item scores the total composition scores are set to blank.
  - d. WPCT and WPCC scores are formatted as numeric scores (no leading zero), not scorable codes are set to 0, and blank responses are set to blank to support the Student Report and calculations.
  - e. mfWPCT and mfWPCC are WPCC and WPCT reformatted to support the megafile. Scores are always 2-digits (with leading zero if necessary), 2-digit not scorable codes are reported, and blank responses are blank.
- Overall Raw Score
  - a. The student's overall raw score is the sum of scores for all common items, including the writing composition task total scores (if applicable).
  - b. If a student has a partstatus that does not receive reported raw scores or if the student did not attempt any items (*Attempt[sub]='N'*) then the raw score is set to blank after all subsequent calculations are complete.

xv. **Points Earned** (*tblScoredItem*)

- MCpts = number of common multiple choice points earned in the test for the given subject.
- ORpts = number of common open response, short answer, and short response points earned in the test for the given subject (in ELA this includes the writing composition scores).
- If a student does not receive reported raw scores these calculations are set to blank.

xvi. **Reporting Category Points Earned** (*tblScoredItem*)

- The total points earned and the percent of possible points earned by the student are calculated by reporting category and stored in nRepCatx and pRepCatx where x is the RepOrder from tblPointsPossible.
- Calculations include all common items. Writing Composition scores are included in their respective RepOrder calculations in ELA.
- If a student does not receive reported raw scores the number of points earned and the percent of possible points earned are set to blank.

xvii. **Item Responses** (*tblScoredItem*)

- If a student has a participation status that does not receive reported item scores, or does not receive item scores because of attempt status, pass requirements or rptLEP conditions, all item responses will be blanked out (NULL) after raw score calculations are complete.
- Otherwise, re-formatted and re-ordered (by released item order) responses to all common items are reported and stored in tblScoredItem to support the student report and megafile deliverables (excluding the State File, which includes all items):
  - a. Released Writing Prompts: see the Writing Prompt Total Score calculations.

- b.** Released and unreleased OR items: the item score or not scorable code is reported. Responses of 'B' (blank) are set to NULL.
- c.** Released MC items: the plus-data from daPlusData is stored, where a "+" indicates a correct response and an alpha character (A,B,C,D,\*) indicates an incorrect response choice.
- d.** Unreleased MC items: the plus-data from daPlusData is stored after re-formatting such that a "+" indicates a correct response, and "-" indicates a masked incorrect response choice (multiple responses ("\*") remain unmasked).

**xviii. Current-Year Reporting Results (tblScoredItem)**

- Information stored in ScaledScore, Perflevel, rScaledScore, and rPerflevel are based on current year test results only. See the **Calculations by Participation Status Summary** table for details.
- **ScaledScore**
  - a.** Current-year scaled score results that are eligible to earn a current year scaled score. Conditions based on pass/fail, rptLEP or breach codes are not applied. This is an internal MP field that is not directly reported.
  - b.** Blank for alternate assessment students and students not eligible to receive a scaled score based solely on participation status.
- **PerfLevel**
  - a.** Earned current-year achievement level based on scaledscore (1-4). Conditions based on pass/fail, rptLEP, or breach codes are not applied.
  - b.** For Alternate Assessment students the un-translated PerfLevel from the Alternate Assessment data table StuPL is stored (7-13).
  - c.** If the student does not receive an achievement level based solely on partstatus PerfLevel is blank.
  - d.** Valid Values: numeric achievement levels (1-4, 7-13) or blank. Internal MP field that is not directly reported.
- **rScaledScore (MP reporting – labels and student report)**
  - a.** rScaledScore is the current year earned scaled score for MP reporting purposes.
  - b.** rScaledScore = ScaledScore, with suppression based on pass/fail status, rptLEP, or breach codes applied from the participation status summary table.
- **rPerfLevel (MP reporting – labels and student report, mfPerfLev)**
  - a.** rPerfLevel is the current year achievement level or partstatus code for MP reporting purposes.
  - b.** rPerfLevel = Perflevel, modified based on pass/fail status, rptLEP, or breach codes for reporting as follows:
    - If perflevel = '1' and rptLEP[sub] = '1' and the student has a partstatus that receives the text "LEP" in place of a non-passing achievement level then rPerfLevel = 'F'. This is applied by subject for all subjects.
    - Otherwise if grade is in 03-08 and perflevel = '1' then rPerfLevel = '6'.

- Otherwise if perflevel is blank then rPerflevel = partstatus.
    - If a student has a breach code then rPerfLevel is assigned per the breach instructions to override any other standard rules.
  - c. Valid values: numeric achievement levels (1-4, 6, 7-13) and partstatus codes.
- **mfPerfLev** (megafile: [e/m/s]PerfLev)
  - a. Formatted rPerfLevel (current year reporting results) to contain either the student's achievement level abbreviated text (Standard or Alt), or 3-character participation status code for all students (e.g. 'P' or 'P\_A' or 'LEP' or 'TRN').

xix. **Aggregation/Accountability Results** (tblScoredItem)

*Aggregation and Accountability Results combine prior and current results, where applicable. See the **Calculations by Participation Status Summary** table for details.*

- **mfScaledScore** (megafile: [e/m/s]scaleds)
  - a. For Accountable or Grade 09 students mfScaledScore is populated with either the current year scaled score, or prior scaled score as applicable for accountability. For Not-Accountable students mfScaledScore is populated with current year results as applicable.
  - b. mfScaledScore is populated as follows for Accountable students (or Grade 09):
    - mfScaledScore = rScaledScore for First Time Testers and First Time Testers that did not meet attemptedness (ABS, MED, TRN, LEP).
    - mfScaledScore = Highest between rScaledScore and the prior highest ScaledScore ([sub]ScaledScore from DPRaw) for Accountable Retest Students.
    - mfScaledScore = Prior highest scaled score for Previously Passed students ([sub]ScaledScore) from DPRaw).
      - Note: if [sub]ScaledScore is blank for the above scenario, the student passed via appeals and an accurate scaled score may not be available. mfScaledScore is left blank.
    - Otherwise mfScaledScore is blank.
  - c. If rptLEP = '1' and the student's mfScaledScore (as determined above) is considered Failing, then mfScaledScore is set to blank.
  - d. mfScaledScore = rScaledScore for Not-Accountable students.
- **Perf2** (MP aggregate calculations)
  - a. Populated with the achievement level for MP aggregate calculations and to support the megafile Perf2 using current year and prior results as applicable.
  - b. Perf2 is blank for all students with rptLep[sub] = '1'.
  - c. Otherwise Perf2 is populated as follows for Accountable or Grade 09 students:
    - Perf2 = rPerfLevel for First Time Testers (1-4, '6' is translated to '1').
    - Perf2 is blank for First Time Testers that did not meet attemptedness (ABS, MED, TRN, LEP).
    - Perf2 = Highest achievement level between rPerfLevel and High\_xPerf for Accountable Retesters (science only).

- Perf2 = Highest prior achievement level (High\_sPerf) for Previously Passed students.
- Perf2 = Translated Alternate Assessment Perf2 for students Tested Alternate Assessment or Accountable Retested Alternate Assessment. Translation is done from Alternate Assessment Achievement Levels of 7-13 to Standard Achievement Levels 1-4.
- d. Otherwise perf2 is blank. Perf2 is blank for all Not-Accountable students except for grade 09 (available for grade 09 specific MP aggregations).
- **mfPerf2** (*megafile: [e/m/s]Perf2*)
  - a. Perf2 formatted to contain the student's achievement level abbreviated text (using Standard Assessment text only, e.g. 'P' or 'A'). Blank if Perf2 is blank.
  - b. mfPerf2 is set to blank for grade 09 students in the megafile export.

xx. **Competency: Updating ELA\_CD, Mat\_CD, and Sci\_CD** (*mfCD in tblScoredItem*)

- These variables represent whether or not a student has met the testing graduation requirement for the subject, combining prior CD information from SIMS with the current test results.
- The updated mfCD fields begin with the prior CD value from SIMS (studemo SIMS\_*[sub]*CD) for all students, regardless of participation status on this year's test. The prior value may be blank for students that have not previously tested in a subject.
- The mfCD fields are then updated using current year scaled score results (rscaledscore) if and only if the CD value increases, otherwise the prior value is retained:
- For Math and ELA:
  - a. If scaled score is  $\geq 220$  and scaled score is  $\leq 238$  then CD = '1'.
  - b. Otherwise if scaled score  $\geq 240$  then CD = '2'.
  - c. Otherwise CD is '0'.
- For Science:
  - a. If scaled score  $\geq 220$  then CD = '1'.
  - b. Otherwise CD is '0'.
- For students tested via the Alternate Assessment (Partstatus in 'A', 'C', or 'W') the CD field is taken from the current-year updated CD field in the alternate assessment data (tblStuPL.mfCD) and is not re-calculated.

xxi. **Graduation Requirement Footnote (CDFootnote)** (*tblScoredItem*)

- The graduation requirement footnote is for High School students and indicates if a student has met, previously met, or still needs to meet the testing requirements for graduation.
- Using the previous CD value from SIMS (tblstudemo.SIMS\_*[sub]*CD) and the updated CD value incorporating current test results (tblScoredItem.mfCD) for each subject:
  - a. If SIMS\_*[sub]*CD is '1' or '2' then CDFootnote = '4' (*Already Met*).
  - b. Otherwise:
    - If mfCD = '0' then CDFootnote = '1' (*Not Met*).
    - If mfCD = '1' then CDFootnote = '2' (*Met but requires proficiency plan*).
    - If mfCD = '2' then CDFootnote = '3' (*Met*).

- For Student Report text see *Appendix I.I.*

xxii. **Composite Performance Index (CPI) Points** (*tblScoredItem*)

- CPI Points are assigned based on results used for Aggregations and Accountability.
- For students whose accountability results are from the Standard MCAS Assessment:
  - a. CPI points are assigned based on their Accountability Scaled Score (*mfScaledScore*) per the following table:

Test	mfScaledScore Range	CPI Points
Standard MCAS	240-280	100
	230-238	75
	220-228	50
	210-218	25
	200-208	0

- b. If *PartStatus* is in ('K','P') and *mfscaledscore* is missing:
  - If *mfperf2* is "NI" (Standard Assessment) set CPI = 50 to indicate the student passed via appeals.
  - Otherwise, *mfPerf2* is from a prior year Alternate Assessment. CPI points are set per the following table in *tblScoredItem*:

Test	Alt Perf2:	CPI Points
Alternate Assessment (Only when re-assigning based on prior-year Alt Results for Accountability)	A_A	100
	P_A	
	PRG	
	EMG	75
	NIA	
	AWR	
	INP	25

- For Accountable Alternate Assessment students (Tested Alt or Accountable Retested Alt) CPI points are taken from the Alternate Assessment data (*daStuCPI.CPI*).

xxiii. **NumIn** (*tblScoredItem* for *Megafile*)

- The subject specific *numin* field is set to '1' if the student is assigned CPI Points for the subject. Otherwise it is '0'. Fields are prefixed with *e/m/s* in the megafile.
- See the calculations by participation status summary for a list of statuses that receive CPI points and *numin* = '1'.

xxiv. **Assess** (*tblScoredItem* for *Megafile*):

- The subject specific *Assess* field is populated to indicate whether or not Accountable students have met the participation requirement this year based on the Calculations by Participation Status Summary table.
- Exception for ELA only, when *Assess* = '1': If *LEP\_off* = '1' and *ACCESS\_Part* = '0' then *Assess* = '0'.

- Fields are prefixed with *e/m/s* in the megafile.

xxv. **Student Growth Percentile (GP)** (*tblScoredItem*)

- Student growth percentiles (and standard error range) are reported for accountable first-time test takers that are not considered First Year LEP (PartStatus = 'Z' and LEPFirst[*sub*] = '0').
- For all other students, GP is blank.
- Growth is only calculated for students in Math and Reading, grades 04-08 and 10.
- After the discrepancy period, any student with changes to their preliminary raw score, perf2, partstatus, or StudentID will have growth data suppressed.

xxvi. **Complexity**(*tblScoredItem*)

- Complexity is populated with the student's alternate assessment composite complexity score (*tblStuPL.Composite*) for all students Tested or Retested (accountable or not-accountable) Alternate Assessment.
- Complexity is blank for Release 1 and 2 since Alt results are not incorporated.

## E. Aggregate Calculations

### i. Aggregation Summary

*These rules are applied to all aggregate calculations. Any additional rules specific to a particular calculation will be listed under the rules for the calculation.*

- Only students eligible for accountability (Summarize = '1') are included in aggregate calculations, with the exception of Grade 09 specific calculations.
- Students are aggregated to their official school (*sprp\_sch*) and official district (*sprp\_dis*), unless their *sprp\_dis* is a one-school district (see Appendix B), in which case they are aggregated to the school associated with their *sprp\_dis* and inclusion rules are dictated by the district (school and district calculations must match).
- Exclusions based on *OctEnrol* are not applied to one-school district school or district level calculations.

### ii. Number and Percent of Students by Achievement Level (*tblSummary*)

- Calculated by grade and subject at the school, district, and state level.
- Grade 09 and 10 HS Science: all individual science subjects are aggregated together by grade as "sci".
- Calculations are performed using *tblScoredItem.Perf2*. All students with a non-blank *Perf2* are eligible to be included in the calculations, including Alternate Assessment students (Achievement Levels are already translated to Standard-Assessment Achievement Level codes in *Perf2*).
- The following exclusions are applied to the pool of eligible students:
  - a. Grade 05, 08, and 09 Science(s), 03-10 Math and ELA:
    - Students with *OctEnrol* ≠ '1' are excluded at the school level, unless they are in a one-school district.
  - b. Grade 10 Science (HS STE's):
    - Students with *ConEnr\_Sch* ≠ '1' are excluded at the school level, unless they are in a one-school district, in which case students with *ConEnr\_Dis* ≠ '1' are excluded.

- Students with ConEnr\_Dis ≠ '1' are excluded at the district level (as well as at the school level for one-school districts).
    - Students with ConEnr\_Sta ≠ '1' are excluded at the state level.
  - N = the total number of students included in the calculation of the number of students at each achievement level (n1-n4), and is the denominator for the calculation of the percent of students at each achievement level (p1-p4).
  - **Minimum N-Requirement:** if N < 10 for a school or district results are calculated but suppressed from reports.
- iii. **P34 (tblSummary)**
- This is the sum of the percent of students in the Proficient Achievement Level (p3) and the students in the Advanced Achievement Level (p4) in each school, district, or state as calculated above in *Number and Percent of Students by Achievement Level*.
  - **Minimum N-Requirement:** if N < 10 for a school or district results are calculated but suppressed from reports.
- iv. **Median Student Growth Percentile (tblSummary)**
- The Median Growth Percentile (*median*) is calculated at the school, district and state level in Math and ELA for grades 04-08 and 10.
  - The number of students with growth included in the calculation is stored in *MedianIncluded*.
  - All students with tblScoredItem.GP populated are eligible to be included in the calculations.
  - The following exclusions are applied to the pool of eligible students:
    - a. Students with OctEnrol ≠ '1' are excluded at the school and district level, unless they are at a one-school district.
  - State Median growth is defaulted 50 (after computing *MedianIncluded* at the state level) for Math and ELA, all grades.
  - Median and MedianIncluded are null for grades/subjects without growth data.
  - **Minimum N-Requirement:** if N < 20 for a school or district results are calculated but suppressed from reports.
- v. **State Reporting Category Performance Comparison (tblRepCatSummary)**
- The average number of points earned (nPoints) and the percent of total possible points earned (pPoints) by students at the "low end of the Proficient level" is calculated for each reporting category at the state level, stacked by subject and reporter.
  - Standard assessment students with partstatus = 'Z' and a scaledscore = '240' are included.

## Data Deliverables Specifications

### I. Writing Composition Images

One pdf with results and an image of the student's submitted writing composition (or typed response) is posted to the website for viewing by the school, district, and state administrators for each student Tested in ELA with a writing composition. See the Holder Table Specifications for website details.

#### A. Calculations and Details

- i.* The table `wcilmgVwrFinalDistrict` is populated by DA to support the web views of the student composition images and scores.
  - PDFs are available for all students included in this table. Students excluded from this table will not have an image available. Inclusion Rules:
    - a. Only students with a writing composition `bookletnumber` are included (`bookletnumberWri` ≠ blank).
    - b. Students classified as INV (N), DUP (I, N), VAB (H), INC (B) or DNT (J) are excluded.
  - Calculations:
    - a. Score = sum of `mfWPCC` and `mfWPCT` from `tblScoredItem`, formatted to always contain 2-digits. If the student received a Not Scorable code instead of dimension scores, or if the dimension scores are blank, Score = "00".
    - b. WPCC and WPCT = `mfWPCC` and `mfWPCT` from `tblScoredItem`, respectively. Blank responses are formatted to "BL".
    - c. `Bookletnumber` = `tblStudememo.BookletNumberWri`
    - d. Grade = test grade
    - e. `SpecialEd` and `Plan504` are combined to create IEP504. If either `tblStudememo.SpecialEd` or `tblStudememo.Plan504` = '1' then IEP504 = '1'. Otherwise IEP504 = '0'.
    - f. If IEP504 = '0' then `RegularEd` = '1'. Otherwise `RegularEd` = '0'.
    - g. `tblStudememo.LEP` is renamed ELL.
    - h. If `ELL`, `FLEP`, `Ever_ELL`, or `Titlel` are null then default to '0'.
    - i. If `Ethnic` or `Gender` are null then default to 'X'.
- ii.* If a student is included in `wcilmgVwrFinalDistrict` but does not have a writing composition image available, a generic pdf is created displaying their available score information.
- iii.* Specifications are available for internal processing in the Writing `CompositionTableLayout.xlsx` document.

## II. MegaFile(s)

### A. Generic Details

- i. Megafile deliverables are posted by grade to the FTP site for the state and contain data for all processed students.
- ii. All MegaFile deliverables follow the most recent layout: MCAS 2012-13 File Layout\_[date].xlsx.
- iii. Test-result based fields that are not applicable to particular deliveries are left blank. SIMS based fields are populated for all releases.
- iv. Amend
  - 12-13 Processing: Students with Amend = '79' received updated scores prior to the preliminary data release (Release 3). They will be set to Amend = '2' for the department.
  - Otherwise, students with Amend  $\geq$  '1' are reported as Amend = '1'.
  - Otherwise Amend is blank.
- v. DataChanged
  - DataChanged indicates if a student's record has changed since a prior release of file. It is defaulted to '0' for all students, and then incrementally updated for each data revision. Prior values are maintained through each revision.
  - The Early ELA and Math and Science MC contain incomplete results for students and should not be considered when setting datachanged for the Preliminary Data Release.
  - Students whose record changes during the discrepancy period are flagged as datachanged = '1' (first full revision) in the post-discrepancy reporting file.
  - Any additional reruns of post-discrepancy data will have changes flagged incrementally.
  - School and District names are excluded from the comparison of data in determining records with data changes. Additional fields may be excluded from the comparison based on rerun specific expectations.
- vi. Commas are suppressed from school and district names, and student names.
- vii. See Measured Progress document *SIMS Mapping.xlsx* for a crosswalk of Measured Progress calculated fields and renamed SIMS fields in DPRaw to their respective Megafile fields that are not specifically listed below, indicating that no additional formatting is required from the source table.
- viii.  $[e/m/s]Alt = tblStudememo.[e/m/s]Alt$ . If Alt = '0' then set to blank.
- ix.  $LEPFirst = tblStudememo.LEPFirst$ . If LEPFirst = '0' then set to blank.
- x.  $Accom26l = DPRaw.ElaAccom26$ . If it is '0', then set it to blank.
- xi.  $Accom29c = DPRaw.CompAccom29$ . . If it is '0', then set it to blank.
- xii.  $Accom30m = DPRaw.MatAccom30$ . . If it is '0', then set it to blank.
- xiii.  $[e/m/s]TestStat = tblStudememo.[e/m/s]TestStat$
- xiv.  $[e/m/s]ScaledS = tblScoredItem.mfscaledscore$ . This is the combined current year and prior year official scaled score results for students included in aggregations and accountability.
- xv.  $[e/m/s]Perflev = tblScoredItem.mfPerfLev$ . This is the formatted current year achievement level or code.

- xvi. [e/m/s]Perf2 = tblScoredItem.mfPerf2. This is the formatted combined current and prior year achievement level results for accountability and aggregations. Set to blank for Grade = '09'.
- xvii. [e/m/s]\_CD = tblScoredItem.mfCD. This is updated with current-year results.
- xviii. [e/m/s]SGP = tblScoredItem.GP by subject. This is the reported current-year student growth percentile.
- xix. WPwptopdev = mfWPCT; wpcomconv = mfWPCC from tblScoredItem.
- xx. Item scores and raw scores are printed as they are stored in tblScoredItem in their respective fields without any additional formatting.
- xxi. Historical grades, scaled scores, and growth percentiles by year are populated from the audited values in tblStudemo, where scores have been blanked when grades are not in the expected sequence. If a historical scaled score is '0' it is set to blank.
- xxii. If Grade = '09' then the following accountability fields are set to blank:
  - sPerf2
  - sCPI
  - sNumin
  - sAssess
 (Grade 09 test results are not included in ESE aggregate calculations until their accountability year)

## B. Early ELA Specifics

- i. File Name:MCASYYYY\_ELAXX.dat  
Where YYYY = 4-digit test year (e.g. 2013), XX = 2-digit file grade.
- ii. Files are produced for grades 03-08 and 10.
- iii. DataChanged = '0' for all students. If there is a rerun of the Early ELA file datachanged will be set based on comparison to the prior Early ELA file and incremented for each rerun. Values will not impact datachanged values in any other files.
- iv. MCASRowID  
The mcasrowid is a 15 digit alpha-numeric field created in the following manner:
  - 2 digits = administration year (ie: 16 for the 2016 test)
  - 2 digits = grade (03-08 or HS (09 and 10 tests))
  - 1 digit = test (2 = ELA)
  - 10 digits = bookletnumber (derived by DP from the student's SASID or submitted answer document)
- v. The following ELA specific fields are not populated:
  - eAlt
  - eComplexity
  - enumin
  - eassess
  - esgp
- vi. elaCD = tblScoredItem.mfCD and is considered a preliminary updated competency determination.

- vii. All math and science test based fields (fields from tblScoreItem) are blank. Math and science SIMS fields are populated with available data (DPRaw, tblStudem sources for ReleaseID = 1).

### C. Math & Science MC Only Specifics

- i. File Name:MCASYYYY\_MCMathXX.dat  
where YYYY = 4-digit test year (e.g. 2013), XX = 2-digit file grade.
- ii. Files are produced for Grades 03-08 and 10.
  - Test-Based data for High School sciences are left blank.
- iii. DataChanged = '0' for all students. If there is a rerun of the Math/Science MC Only file datachanged will be set based on comparison to the prior Math/Science MC Only file and incremented for each rerun. Values will not impact datachanged values in any other files.
- iv. MCASRowID

The mcasrowid is a 15 digit alpha-numeric field created in the following manner:

- 2 digits = administration year (ie: 16 for the 2016 test)
  - 2 digits = grade (03-08 or HS (09 and 10 tests))
  - 1 digit = test (3 = Math/Science)
  - 10 digits = bookletnumber (derived by DP from the student's SASID or submitted answer document)
- v. The following Math/Science related fields are not populated:
    - (m/s)Alt
    - (m/s)Complexity
    - (m/s)Scaleds
    - (m/s)Perf2
    - (m/s)numin
    - (m/s)assess
    - (m/s)sgp
    - (m/s)\_cd
  - vi. All Test-based ELA specific fields will be left blank. ELA specific SIMS fields are populated with available data (from DPRaw, tblStudem for releaseID = 2).

### D. Preliminary Release Specifics

- i. File Name:MCASYYYY\_XX.dat  
Where YYYY = 4-digit test year (e.g. 2013), XX = 2-digit file grade.
- ii. Files are produced for grades 03-08, and HS (includes test grade 09 and 10 data).
- iii. DataChanged = '0' for all students. DataChanged values from the Early ELA and Math/Science Released of the megafire are not maintained.
- iv. MCASRowID

The mcasrowid is a 15 digit alpha-numeric field created in the following manner:

- 2 digits = administration year (ie: 16 for the 2016 test)
- 2 digits = file grade (03-08 or HS)
- 1 digit = test (1 = Standard)
- 10 digits = bookletnumber (derived by DP from the student's SASID or submitted answer document)

- v. All SIMS and test-based data for all applicable fields are populated per standard decision rules.

#### **E. Post-Discrepancy Final Release Specifics**

- i. File Name:MCASYYYY\_XX.dat  
Where YYYY = 4-digit test year (e.g. 2013), XX = 2-digit test grade.
- ii. Files are produced for grades 03-08 and HS (includes test grade 09 and 10 data).
- iii. DataChanged is taken from the Preliminary Release file. If a student record is new or was modified during the discrepancy period, datachanged is set to '1'. For any subsequent updates the datachanged flag will be maintained and incremented as necessary.
- iv. MCASRowID

The mcasrowid is a 15 digit alpha-numeric field created in the following manner:

- 2 digits = administration year (ie: 16 for the 2016 test)
  - 2 digits = file grade (03-08 or HS)
  - 1 digit = test (1 = Standard)
  - 10 digits = bookletnumber (derived by DP from the student's SASID or submitted answer document)
- v. All SIMS and test-based data for all applicable fields are populated per standard decision rules.

### **III. Accommodation Data File(s)**

- A. File Name: [sub]Accom.csv
- B. One file is produced by subject including all students in all grades.
- C. The file contains grade (tested grade), Bookletnumber, Discode, Schcode, simsDiscode, simsSchcode, sendDiscode, sasid, sped\_off, and the subject-specific accommodations (renamed per the ESE naming conventions found in the State File Layout) from DPRaw.

### **IV. Questionnaire Data File(s)**

- A. File Name: Questionnaire Data GrXX.csv where XX = 2-digit grade
- B. Layout: MCAS[4-digit year]Questionnairelayout.xlsx
- C. Files are produced for Grades 08 and 10.
- D. All students are included regardless of responses to questionnaire items, listed by Bookletnumber and SASID (StudentID).
- E. Questionnaire responses are taken as-is from DPRaw.

### **V. Alt & Standard Results Data Files**

- A. One file is produced including students in all grades that took both the Alternate Assessment and Standard Assessment in the same subject. This file provides score and achievement level information for the ESE to determine if any students should have their Standard Assessment results override their Alternate Assessment results.

### **VI. Missing Grade Span Data File**

- A. File will list all public sprp\_sch codes that are in the Preliminary data (release 3) that are not listed in the Grade Span Lookup provided by the ESE.

- B. This file is only produced if needed. The ESE will provide an updated Grade Span lookup prior to final reporting to ensure all official schools have an associated grade span.

**VII. State Student Results Data File**

- A. File Name: MCASYYYY\_XX.dat  
Layout Name: ‘MCAS Spring YYYY State File Layout.xls’  
Where YYYY = 4-digit test year (e.g. 2013), XX = 2-digit test grade.
- B. Files are produced for grades 03-08 and HS (includes test grade 09 and 10 data).
- C. Student item responses are taken from daPlusData in test position order, including matrix and field-test items. Blank open response items (‘B’) are reformatted to blank.
- D. Except for the variables listed above, all other variables (including datachanged) in the state file layout are pulled from the following sources without any additional formatting based on the following hierarchy:
  - i. Current megafile data.
  - ii. Current tblstude demo data.
  - iii. Current Ddraw data.

**VIII. Student Report Translation Counts**

- A. File Name: MCASYYYY Interp Lang Counts.xls
- B. One file is produced by listing all schools and districts receiving student reports with a count of the number of students in each language:

DPRaw. FirstLanguage	Language	iCore Shipping Form
135	Arabic	01
001	Cape Verdean	02
002		
200	Chinese	03
520		
225	Haitian Creole	04
430	Khmer	05
445	Korean	06
006	Portuguese	07
665	Russian	08
007	Spanish	09
825	Vietnamese	10

- C. Guides are provided in the 03-08, 10 report format, or grade 09 report format. Grade 03-08 and 10 students receiving the 2-3 subject report templates are counted together for the 03-08,10 counts. Grade 09 students and Grade 10 students receiving science-only reports are counted together for the Grade 09 template.

## **IX. Discrepancy Table**

- A.** Table Name: tblDiscrepancy
- B.** Layout: MCASYYYYDiscrepancy.xls
- C.** Contains reporting data for all students processed during preliminary reporting.
- D.** Sources:
  - i.* Data are taken from tblStudemo after audits when applicable.
  - ii.* Otherwise they are taken from DPRaw.
  - iii.* EditDiscode = discode, EditSchCode = Schcode.

## **X. Discrepancy File**

- A.** File Name: tblDiscrepancy
- B.** Layout: MCASYYYYDiscrepancy.xls
- C.** Contains all data from tblDiscrepancy after the discrepancy period has closed with the edits from the field, ESE users, and MP users. Only students that had an update made are included (Edit = 'U', DESEflag = 1, or MPflag = 1, or DESEReviewed = 1).

## Report Deliverables Specifications

### I. Student Labels

#### A. Definitions

The following terms will be used to describe certain formats/behavior:

- i.* Suppress – if grade = '10' and summarize = '0' then do the following:
  - If the student returned a HS Science booklet and both Math and ELA booklets were not returned (BookletNumberSci is not NULL and BookletNumberELA is NULL and BookletNumberMat is NULL) then Suppress = 1.
  - Otherwise, Suppress = 2.

These students are not required to test and will have certain aggregation displays suppressed from their reports. The two Suppress values are used to identify which report template to use when reporting the student.

- ii.* Data listed as being taken “from SIMS” are taken from tblStudemo, after any necessary audits are complete. If the student does not link to SIMS the data are blank.

#### B. Templates

There are three different label templates that differ depending on the number of subjects reported for the tested grade:

- i.* One subject – grade 09, grade 10 where Suppress = 1.
- ii.* Two subjects – grades 03, 04, 06, 07
- iii.* Three subjects – grades 05, 08, 10 where Suppress ≠ 1.

#### C. Label Displays

- i.* Student Name (Section1a) –
  - Presented as: *LName, FName MI.* (with a period after the middle initial when the middle initial is not blank). Examples: SMITH, JOHN T. or JONES, JENNY
  - This section requires special formatting when one or more of the names are missing:
    - a. If Lname is blank and FName is blank, then section = “BLANK NAME”
    - b. If Lname is blank and FName is not blank, then section = “BLANK, FName”
    - c. If Lname is not blank and FName is blank then section = “Lname, BLANK”
- ii.* Grade
  - If grade='10' and summarize = 0 and StuGrade <> 'SP' then use the use StuGrade from SIMS.
  - Otherwise use the Test Grade and remove any leading zeroes.
- iii.* SASID – Student ID from SIMS, no special formatting applied.
- iv.* School Name, School Code, and District Name – School and District names and School Code from iCore based on testing school (discode,schcode). No special formatting applied.
- v.* Birth Date – DOB from SIMS, no special formatting applied. Stored in tblStudemo.DOB.
- vi.* Test Date: “Spring 20YY” where 20YY = test year, e.g. 2013.

- vii. Subject Title (Section1i, Section1l, Section1o) – Formatted with the following values:
  - If subject = 'ela' then 'English Language Arts'
  - If subject = 'mat' then 'Mathematics'
  - If subject = 'sci' then and grade is 05 or 08 then 'Science and Technology/Eng'
  - Otherwise if subject = 'sci' and grade is 09 or 10 (HS STE's) then:
    - a. If rptSciTry = '1' then 'Biology'
    - b. If rptSciTry = '2' then 'Chemistry'
    - c. If rptSciTry = '3' then 'Introductory Physics'
    - d. If rptSciTry = '4' then 'Technology/Engineering'
- viii. Scaled Score – student earned scaled score stored as rScaledScore in tblScoredItem. If a student did not earn a scaled score for a tested subject (rScaledScore is NULL) the display is formatted as "---".
- ix. Achievement level (Section1k, Section1n, Section1q) – contains either the achievement level text or the not-tested statement stored in tblPerfLevelLookup (see *Appendix I.C- Description*). This is set using the student's rPerfLevel from tblScoredItem. This is always populated if the subject existed at the tested grade.

## II. Student Report

The following sections discuss the formatting of the various displays presented on the student report. All calculations and aggregation rules can be found in earlier sections of this document. These sections will refer to the following schema notation files when necessary for providing information for specific report templates:

MCAS1213StudentReportSchemaNotation03.pdf

MCAS1213StudentReportSchemaNotation04.pdf (templates for test grades 04, 06, 07)

MCAS1213StudentReportSchemaNotation05.pdf (templates for test grades 05, 08, 10)

MCAS1213StudentReportSchemaNotation09.pdf

### A. Definitions

The following terms will be used to describe certain formats/behavior:

- i. NoScience – Student tested in grade 09 or 10 and either did not return a HS science booklet (BookletNumberSci is NULL) or the student is not expected to participate in the HS science test (PartStatusSci is in 'A','C','W','K','L','P'). These students will have certain science displays suppressed from their reports.
- ii. Suppress – if grade = '10' and summarize = '0' then do the following:
  - If the student returned a HS Science booklet and both Math and ELA booklets were not returned (BookletnumberSci is not NULL and BookletNumberELA is NULL and BookletNumberMat is NULL) then Suppress = 1.
  - Otherwise, Suppress = 2.

These students are not required to test and will have certain aggregation displays suppressed from their reports. The two Suppress values are used to identify which report template to use when reporting the student.

- iii. Data listed as being taken "from SIMS" are taken from tblStudemo, after any necessary audits are complete. If the student does not link to SIMS the data are blank.

## B. Cover Page

- i. Title (Section1a) – “Spring 20YY MCAS Tests” where 20YY = test year, e.g. 2013.
- ii. Student Name – Presented as: *LName, FName MI*. (with a period after the middle initial when the middle initial is not blank). Examples: SMITH, JOHN T. or JONES, JENNY

This section requires special formatting when one or more of the names is missing:

- If Lname is blank and Fname is blank, then section = “BLANK NAME”
- If Lname is blank and Fname is not blank, then section = “BLANK, Fname”
- If Lname is not blank and Fname is blank then section = “Lname, BLANK”

- iii. SASID – Student ID from SIMS, no special formatting applied.
- iv. School Name and District Name – School and District names from iCore based on testing school. No special formatting applied.
- v. Grade
  - If grade='10' and summarize = 0 and StuGrade <> 'SP' then use the use StuGrade from SIMS.
  - Othersiwe use the Test Grade and remove any leading zeroes.
- vi. DOB – DOB from SIMS, no special formatting.

## C. Reporting Category Display

- i. Subject (Section6a) – Formatted with the following values:
  - If subject = 'ela' then 'English Language Arts'
  - If subject = 'mat' then 'Mathematics'
  - If subject = 'sci' then and grade is 05 or 08 then 'Science and Technology/Engineering'
  - Otherwise if subject = 'sci' and grade is 09 or 10 (HS STE's) then:
    - a. If rptSciTry = '1' then 'Biology'
    - b. If rptSciTry = '2' then 'Chemistry'
    - c. If rptSciTry = '3' then 'Introductory Physics'
    - d. If rptSciTry = '4' then 'Technology/Engineering'
- ii. Order of the Grids
  - 1 = ELA
  - 2 = Mathematics
  - 3 = Science (includes grade05/08 and HS sciences)
- iii. Reporting category text and two-character codes (Section6b and Section6c) – refer to daReportingCategoriesLookup for the approved text and codes (see *Appendix I.F*).
- iv. Points earned by your child (Section6f) – nRepCatX variables from tblScoredItem, no special formatting where X= the Reporting category RepOrder in tblPointsPossible.
- v. Possible Points (Section6g) – Points variable from tblPointsPossible, no special formatting.
- vi. Percent of points earned by your child (Section6d) – pRepCatX variables from tblScoredItem. If the pRepCat variable is not blank, then place % symbol immediately after the number. Example: 15%.

- vii. Percent of points earned by minimally proficient kids (Section6e) – pPoints variable from tblRepCatSummary. Place % symbol immediately after the number. Example: 15%.
  - This data is always displayed when the grid is displayed, regardless of whether or not the individual student has earned reporting category points.
  - For HS STE's join to tblRepCatSummary based on the subject associated with the student's rptSciTry (if a student's rptSciTry = '2' then pPoints summarizing minimally proficient students in Chemistry is displayed).
- viii. Students identified as NoScience do not receive the science grid portion of the display.
- ix. Students identified as Suppress do not have this display on the report (all subjects).

#### **D. Released Item Display**

- i. *Subject Title* (Section7a) – Formatted with the following values:

- If subject = 'ela' then 'English Language Arts'
- If subject = 'mat' then 'Mathematics'
- If subject = 'sci' and grade is 05 or 08 then 'Science and Technology/Engineering'
- Otherwise if subject = 'sci' and grade is 09 or 10 (HS STE's) then:
  - a. If rptSciTry = '1' then 'Biology'
  - b. If rptSciTry = '2' then 'Chemistry'
  - c. If rptSciTry = '3' then 'Introductory Physics'
  - d. If rptSciTry = '4' then 'Technology/Engineering'

- ii. *Order of the Grids*

- 1 = ELA
- 2 = Mathematics
- 3 = Science (includes grade05/08 and HS sciences)

- iii. *Order of rows within each grid*

The following definitions are used to both describe what appears and also what is printed in Section7b.

- 1 = "Question Number" – this is the released item order number.
- 2 = "Reporting Category" – this is the two-character reporting category code.
- 3 = "Your Child's Score" - this is the response provided by the student.

- iv. *Order of items*

- For tests without writing, the items are ordered from left to right in released item order
- For tests with writing, the two writing prompt scores are presented first followed by the rest of the test items in released item order: WPCT, WPCC, followed by all other items.
- Item responses in tblScoredItem are already ordered by released item order.

- v. *Formatting of Student Responses*

- Formatting of the items for the Student Report is mostly completed in tblScoredItem, with the following additions:

- a. If the student correctly responded a '+' is stored in tblScoredItem for all MC items and "SA" math items. This is translated to a 'P' in the reporting data so that a check mark is displayed.
- b. Incorrect MC and "SA" math items are already formatted to display the student's incorrect response option.
- c. Otherwise for all other open response items the points earned by the student from tblScoredItem is presented along with the possible points for the item separated by a "/". Examples: 2/4 or 7/12.
- vi. Students identified as NoScience do not have the science grid portion of the display.
- vii. Item responses are blanked out in tblScoredItem for students that should not receive reported item responses in the display.

#### **E. Student Achievement Level and Scaled Score Statements (inside, section2)**

- i. Test Grade reference (Section1b) – "Your child's 2013 grade *Section1b* achievement levels and scores"

The Section1b refers to the grade of the test taken. This Section1b reference does not appear on the grade 09 test or on the reports for kids identified as Suppress (1 or 2).

When it appears, Section1b is equal to the test grade with leading zeros removed.

- ii. Achievement level (Section2a, Section2g, Section2n) – contains either the achievement level text or the not-tested statement stored in tblPerfLevelLookup (see *Appendix I.C- Description*). This is set using the rPerfLevel variable from tblScoredItem.
- iii. Score (Section2c, Section2i, Section2p) – contains the reported scaled score, the rScaledScore variable from tblScoredItem.
- iv. Growth Percentile (Section2e, Section2k) – contains the student growth percentile as provided by the ESE and stored in tblScoredItem.
- v. Graduation requirement footnotes (Section2b, Section2h) – contains the text from tblCDFootnoteLookup (see *Appendix I.I*) associated with the CDFootnote variable in tblScoredItem.
- vi. Growth Percentile footnotes (Section2f, Section2l)
  - GP = student growth percentile from tblScoredItem.
  - ELA: "Your child's 2013 MCAS English Language Arts score is higher than the scores of GP% of the students in the state who received similar MCAS English Language Arts scores in prior years."
  - Math: "Your child's 2013 MCAS Mathematics score is higher than the scores of GP% of the students in the state who received similar MCAS Mathematics scores in prior years."

#### **F. Scaled Score / Achievement Level Bar Graph Display**

- i. Current year scaled scores
  - Use rScaledScore from tblScoredItem
  - Contains standard error bar (lowScaledScore and highScaledScore from tblScoredItem)
- ii. Historical scaled scores

- Use scaled scores from SIMS for ELA and Math stored in tblStuDemo as [subject]scaledscore1 and [subject]scaledscore2 (1 = 2011, 2 = 2012), where [subject] = ela or mat.
- No standard error is reported.
- Science does not have a bar graph to show prior year scores in addition to the current score.
- Grades 03 and 09 do not have historical scores.
- Grade 04 reports only one year (2012) of historical scores.
- Grade 10 reports will display years of 2013, 2011, and 2010.

*iii.* Historical score footnote

- If a historical score is missing, an \* is placed to the right of the year label for the missing score and the following footnote appears below the display:

\*Score not available

### **G. Achievement Level Comparison Table**

- Your child column – a check mark is placed in the row associated with the earned achievement level based on the data stored in the rPerfLevel column in tblScoredItem.
  - Students who participated through the Alternate assessment are included in the row where they are counted for aggregations.
  - Students who did not earn an achievement level on this year’s test do not receive a checkmark.
- School/District columns – the school and district achievement level percentages from tblSummary based on the student’s official school and district (sprp\_sch and sprp\_dis respectively).
- State column – the state achievement level percentages from tblSummary.
- Percentages are formatted with a % directly after the number. Example: 15%
- Display is not shown on reports for students identified as Suppress = 1 or 2.
- If the display is shown, the school, district, and state data are displayed regardless of whether or not the student earned an achievement level.

### **H. Student Growth Percentile Display**

- Your Child – presents the student’s growth percentile
  - GP from tblScoredItem is used to mark the location of the circle with score.
  - lowGP and highGP from tblScoredItem are used to draw a standard error bar behind the student score circle.
- School/District – Median value from tblSummary for school/district based on official school and district (sprp\_sch and sprp\_dis).
- School/District Medians are displayed regardless of whether or not the student has a growth percentile displayed.

## Appendix

### A. Assigning Sprp\_sch and Sprp\_dis: Exceptions List (daTestSiteLookup)

System + School	Name	sprp_dis	sprp_sch	Date Added
70050051	Amherst/Pelham Regional High -South Amherst Campus	06050000	06050505	
70050062	Mystic Valley Regional Charter School	04700000	04700105	
70050063	Atlantis Charter School	04910000	04910550	
70050066	Prospect Hill Academy Charter School (50 Essex Str	04870000	04870550	
70050067	Prospect Hill Academy Charter School (UE Campus)	04870000	04870550	
70050068	Prospect Hill Academy Charter School (EC Campus)	04870000	04870550	
70050087	Prospect Hill Academy Charter School (US Campus, #	04870000	04870550	
70050079	Match Charter Public Middle School	04690000	04690505	
70050082	Boston Collegiate Lower School	04490000	04490305	
03322001	21st Century Skills Academy	03320000	03320505	3/27/2013
70050088	Forest Park Middle School at Kopernik Street	02810000	02810325	5/15/2013
70050089	Forest Park Middle School at School Street	02810000	02810325	5/15/2013
70050090	Forest Park Middle School at Duggan	02810000	02810325	5/15/2013
70050093	Roxbury Preparatory Charter School - Lucy Stone Ca	04840000	04840505	5/15/2013
70050094	Roxbury Preparatory Charter School - Dorchester Ca	04840000	04840505	5/15/2013
62931001	Taunton Public School Alternat	02930000	02930525	5/20/2013

## B. One School District List

District_Name	sprp_sch	School_Name	System
Berlin	00280005	Berlin Memorial	0028
Boxborough	00370005	Blanchard Memorial	0037
Boxford	00380013	Spofford Pond	0038
Boylston	00390005	Boylston Elementary	0039
Brewster	00410010	Eddy Elementary	0041
Brimfield	00430005	Brimfield Elementary	0043
Brookfield	00450005	Brookfield Elementary	0045
Carlisle	00510025	Carlisle School	0051
Clarksburg	00630010	Clarksburg Elementary	0063
Conway	00680005	Conway Grammar	0068
Deerfield	00740015	Deerfield Elementary	0074
Dover	00780005	Chickering	0078
Eastham	00850005	Eastham Elementary	0085
Edgartown	00890005	Edgartown Elementary	0089
Erving	00910030	Erving Elementary	0091
Florida	00980005	Abbott Memorial	0098
Gosnold	01090005	Cuttyhunk Elementary	0109
Halifax	01180005	Halifax Elementary	0118
Hancock	01210005	Hancock Elementary	0121
Holland	01350005	Holland Elementary	0135
Kingston	01450020	Kingston Intermediate	0145
Lanesborough	01480005	Lanesborough Elementary	0148
Leverett	01540005	Leverett Elementary	0154
Marion	01690005	Sippican	0169
Middleton	01840005	Howe-Manning	0184
Nahant	01960010	Johnson	0196
Norfolk	02080005	Freeman-Kennedy School	0208
Oak Bluffs	02210005	Oak Bluffs Elementary	0221
Orleans	02240005	Orleans Elementary	0224
Pelham	02300005	Pelham Elementary	0230
Petersham	02340005	Petersham Center	0234
Plympton	02400010	Dennett Elementary	0240
Provincetown	02420020	Provincetown Schools	0242
Richmond	02490005	Richmond Consolidated	0249
Rochester	02500005	Rochester Memorial	0250
Rowe	02530005	Rowe Elementary	0253
Savoy	02630010	Emma L Miller Elementary School	0263
Sherborn	02690010	Pine Hill	0269
Shutesbury	02720005	Shutesbury Elementary	0272

<b>District_Name</b>	<b>sprp_sch</b>	<b>School_Name</b>	<b>System</b>
Southampton	02750005	William E Norris	0275
Sturbridge	02870005	Burgess Elementary	0287
Sunderland	02890005	Sunderland Elementary	0289
Tisbury	02960005	Tisbury Elementary	0296
Truro	03000005	Truro Central	0300
Wales	03060005	Wales Elementary	0306
Wellfleet	03180005	Wellfleet Elementary	0318
Westhampton	03270005	Westhampton Elementary School	0327
Whately	03370005	Whately Elementary	0337
Williamsburg	03400020	Williamsburg Schools	0340
Williamstown	03410010	Williamstown Elementary	0341
Northampton-Smith Vocational Agricultural	04060705	Smith Vocational and Agricultural High	0406
Alma del Mar Charter School (District)	04090205	Alma del Mar Charter School	0409
Excel Academy Charter (District)	04100205	Excel Academy Charter School	0410
Boston Green Academy Horace Mann Charter School (District)	04110305	Boston Green Academy Horace Mann Charter School	0411
Academy Of the Pacific Rim Charter Public (District)	04120530	Academy Of the Pacific Rim Charter Public School	0412
Four Rivers Charter Public (District)	04130505	Four Rivers Charter Public School	0413
Berkshire Arts and Technology Charter Public (District)	04140305	Berkshire Arts and Technology Charter Public School	0414
Amesbury Academy Charter Public (District)	04150505	Amesbury Academy Charter Public School	0415
Boston Preparatory Charter Public (District)	04160305	Boston Preparatory Charter Public School	0416
Christa McAuliffe Regional Charter Public (District)	04180305	Christa McAuliffe Regional Charter Public School	0418
Smith Leadership Academy Charter Public (District)	04190305	Smith Leadership Academy Charter Public School	0419
Benjamin Banneker Charter Public (District)	04200205	Benjamin Banneker Charter Public School	0420
Boston Day and Evening Academy Charter (District)	04240505	Boston Day and Evening Academy Charter School	0424
Barnstable Community Horace Mann Charter Public (District)	04270010	Barnstable Community Horace Mann Charter Public School	0427
Edward Brooke Charter (District)	04280305	Edward Brooke Charter School	0428
KIPP Academy Lynn Charter (District)	04290010	KIPP Academy Lynn Charter School	0429
Advanced Math and Science Academy Charter (District)	04300305	Advanced Math and Science Academy Charter School	0430
Cape Cod Lighthouse Charter (District)	04320530	Cape Cod Lighthouse Charter School	0432
Innovation Academy Charter (District)	04350305	Innovation Academy Charter School	0435
Community Charter School of	04360305	Community Charter School of	0436

<b>District_Name</b>	<b>sprp_sch</b>	<b>School_Name</b>	<b>System</b>
Cambridge (District)		Cambridge	
City On A Hill Charter Public (District)	04370505	City On A Hill Charter Public School	0437
Codman Academy Charter Public (District)	04380505	Codman Academy Charter Public School	0438
Conservatory Lab Charter (District)	04390050	Conservatory Lab Charter School	0439
Community Day Charter Public School - Prospect (District)	04400205	Community Day Charter Public School - Prospect	0440
Sabis International Charter (District)	04410505	Sabis International Charter School	0441
Edward W. Brooke Charter School 2 (District)	04430205	Edward W. Brooke Charter School 2	0443
Neighborhood House Charter (District)	04440205	Neighborhood House Charter School	0444
Abby Kelley Foster Charter Public (District)	04450105	Abby Kelley Foster Charter Public School	0445
Foxborough Regional Charter (District)	04460550	Foxborough Regional Charter School	0446
Benjamin Franklin Classical Charter Public (District)	04470205	Benjamin Franklin Classical Charter Public School	0447
Gloucester Community Arts Charter (District)	04480205	Gloucester Community Arts Charter School	0448
Boston Collegiate Charter (District)	04490305	Boston Collegiate Charter School	0449
Hilltown Cooperative Charter Public (District)	04500105	Hilltown Cooperative Charter Public School	0450
Edward M. Kennedy Academy for Health Careers (Horace Mann	04520505	Edward M. Kennedy Academy for Health Careers (Horace Mann	0452
Holyoke Community Charter (District)	04530005	Holyoke Community Charter School	0453
Lawrence Family Development Charter (District)	04540205	Lawrence Family Development Charter School	0454
Hill View Montessori Charter Public (District)	04550050	Hill View Montessori Charter Public School	0455
Lowell Community Charter Public (District)	04560050	Lowell Community Charter Public School	0456
Edward W. Brooke Charter School 3 (District)	04570205	Edward W. Brooke Charter School 3	0457
Lowell Middlesex Academy Charter (District)	04580505	Lowell Middlesex Academy Charter School	0458
Excel Academy Charter School - Boston II (District)	04590305	Excel Academy Charter School - Boston II	0459
Excel Academy Charter School - Chelsea (District)	04610405	Excel Academy Charter School - Chelsea	0461
KIPP Academy Boston Charter School (District)	04630205	KIPP Academy Boston Charter School	0463
Marblehead Community Charter Public (District)	04640305	Marblehead Community Charter Public School	0464
MATCH Community Day Charter Public School (District)	04650105	MATCH Community Day Charter Public School	0465

<b>District_Name</b>	<b>sprp_sch</b>	<b>School_Name</b>	<b>System</b>
Martha's Vineyard Charter (District)	04660550	Martha's Vineyard Charter School	0466
Salem Community Charter School (District)	04670505	Salem Community Charter School	0467
Ma Academy for Math and Science	04680505	Ma Academy for Math and Science School	0468
MATCH Charter Public School (District)	04690505	MATCH Charter Public School	0469
Mystic Valley Regional Charter (District)	04700105	Mystic Valley Regional Charter School	0470
New Leadership Charter (District)	04710405	New Leadership Charter School	0471
North Central Charter Essential (District)	04740505	North Central Charter Essential School	0474
Dorchester Collegiate Academy Charter (District)	04750505	Dorchester Collegiate Academy Charter	0475
Spirit of Knowledge Charter School (District)	04760505	Spirit of Knowledge Charter School	0476
Silver Hill Horace Mann Charter (District)	04770010	Silver Hill Horace Mann Charter School	0477
Francis W. Parker Charter Essential (District)	04780505	Francis W. Parker Charter Essential School	0478
Pioneer Valley Performing Arts Charter Public (District)	04790505	Pioneer Valley Performing Arts Charter Public School	0479
UP Academy Charter School of Boston (District)	04800405	UP Academy Charter School of Boston	0480
Boston Renaissance Charter Public (District)	04810550	Boston Renaissance Charter Public School	0481
River Valley Charter (District)	04820050	River Valley Charter School	0482
Rising Tide Charter Public (District)	04830305	Rising Tide Charter Public School	0483
Roxbury Preparatory Charter (District)	04840505	Roxbury Preparatory Charter School	0484
Salem Academy Charter (District)	04850485	Salem Academy Charter School	0485
Seven Hills Charter Public (District)	04860105	Seven Hills Charter School	0486
Prospect Hill Academy Charter (District)	04870550	Prospect Hill Academy Charter School	0487
South Shore Charter Public (District)	04880550	South Shore Charter Public School	0488
Sturgis Charter Public (District)	04890505	Sturgis Charter Public School	0489
Atlantis Charter (District)	04910550	Atlantis Charter School	0491
Martin Luther King Jr. Charter School of Excellence (Distr	04920005	Martin Luther King Jr. Charter School of Excellence	0492
Phoenix Charter Academy (District)	04930505	Phoenix Charter Academy	0493
Pioneer Charter School of Science (District)	04940205	Pioneer Charter School of Science	0494
Global Learning Charter Public (District)	04960305	Global Learning Charter Public School	0496
Pioneer Valley Chinese Immersion Charter(District)	04970205	Pioneer Valley Chinese Immersion Charter School	0497
Veritas Preparatory Charter School	04980405	Veritas Preparatory Charter	0498

<b>District_Name</b>	<b>sprp_sch</b>	<b>School_Name</b>	<b>System</b>
(District)		School	
Hampden Charter School of Science (District)	04990305	Hampden Charter School of Science	0499
Berlin-Boylston	06200505	Tahanto Regional High	0620
Chesterfield-Goshen	06320025	New Hingham Regional Elementary	0632
Concord-Carlisle	06400505	Concord Carlisle High	0640
Farmington River Reg	06620020	Farmington River Elementary	0662
Frontier	06700505	Frontier Regional	0670
Hampshire	06830505	Hampshire Regional High	0683
Hawlemont	06850005	Hawlemont Regional	0685
Lincoln-Sudbury	06950505	Lincoln-Sudbury Regional High	0695
Marthas Vineyard	07000505	Marthas Vineyard Regional High	0700
Mount Greylock	07150505	Mt Greylock Regional High	0715
New Salem-Wendell	07280015	Swift River	0728
Northboro-Southboro	07300505	Algonquin Regional High	0730
Somerset Berkley Regional School District	07630505	Somerset Berkley Regional High School	0763
Assabet Valley Regional Vocational Technical	08010605	Assabet Valley Vocational High School	0801
Blackstone Valley Regional Vocational Technical	08050605	Blackstone Valley	0805
Blue Hills Regional Vocational Technical	08060605	Blue Hills Regional Vocational Technical	0806
Bristol-Plymouth Regional Vocational Technical	08100605	Bristol-Plymouth Vocational Technical	0810
Cape Cod Regional Vocational Technical	08150605	Cape Cod Region Vocational Technical	0815
Franklin County Regional Vocational Technical	08180605	Franklin County Technical	0818
Greater Fall River Regional Vocational Technical	08210605	Diman Regional Vocational Technical High	0821
Greater Lawrence Regional Vocational Technical	08230605	Gr Lawrence Regional Vocational Technical	0823
Greater New Bedford Regional Vocational Technical	08250605	Gr New Bedford Vocational Technical	0825
Greater Lowell Regional Vocational Technical	08280605	Gr Lowell Regional Vocational Technical	0828
South Middlesex Regional Vocational Technical	08290605	Joseph P Keefe Technical High School	0829
Minuteman Regional Vocational Technical	08300605	Minuteman Regional High	0830
Montachusett Regional Vocational Technical	08320605	Montachusett Regional Vocational Technical	0832
Northern Berkshire Regional Vocational Technical	08510605	Charles McCann Vocational Technical	0851
Nashoba Valley Regional Vocational	08520605	Nashoba Valley Technical High	0852

<b>District_Name</b>	<b>sprp_sch</b>	<b>School_Name</b>	<b>System</b>
Technical		School	
Northeast Metropolitan Regional Vocational Technical	08530605	Northeast Metro Regional Vocational	0853
North Shore Regional Vocational Technical	08540605	North Shore Regional Vocational	0854
Old Colony Regional Vocational Technical	08550605	Old Colony Regional Vocational Technical	0855
Pathfinder Regional Vocational Technical	08600605	Pathfinder Vocational Technical	0860
Shawsheen Valley Regional Vocational Technical	08710605	Shawsheen Valley Vocational Technical High School	0871
Southeastern Regional Vocational Technical	08720605	Southeastern Regional Vocational Technical	0872
South Shore Regional Vocational Technical	08730605	So Shore Vocational Technical High	0873
Southern Worcester County Regional Vocational Technical	08760605	Bay Path Regional Vocational Technical High School	0876
Tri County Regional Vocational Technical	08780605	Tri County Regional Vocational Technical	0878
Upper Cape Cod Regional Vocational Technical	08790605	Upper Cape Cod Vocational Technical	0879
Whittier Regional Vocational Technical	08850605	Whittier Regional Vocational	0885
Bristol County Agricultural	09100705	Bristol County Agricultural High	0910
Essex Agricultural Technical	09130705	Essex Agricultural and Technical Institute	0913
Norfolk County Agricultural	09150705	Norfolk County Agricultural	0915

**C. rPerfLevel Lookup for MegaFile Codes (PerfLev, Perf2)**

*For reformatting tblScoredItem rPerfLevel to mfPerfLevel and Perf2 to mfPerf2.*

<b>Achievement Level or Part Flag</b>	<b>Mega File Code</b>	<b>Description</b>
1	F	Failing
2	NI	Needs Improvement
3	P	Proficient
4	A	Advanced
6	W	Warning
7	INP	Incomplete Portfolio
8	AWR	Awareness
9	EMG	Emerging
10	PRG	Progressing
11	NIA	Needs Improvement-Alt
12	P_A	Proficient-Alt
13	A_A	Advanced-Alt
B	INC	Incomplete
D	TRN	Transferred
E	ABS	Absent
F	LEP	First-year LEP
G	MED	Absent—Medically Documented
H	VAB	Void
I	DUP	Invalidated
J	DNT	Did Not Test
K	PAS	Previously Passed
P	PPR	Previously Passed & Retested
L	PRF	Previously Failed
N	INV	Invalidated

#### D. Historical PerfLevel Translations

*If the following achievement levels are provided in SIMS for a student they are translated to currently-reported achievement levels:*

<b>SIMS PerfLevel</b>	<b>Description</b>	<b>Code</b>	<b>PerfLevel</b>	<b>PerfLevel Description</b>
A_M	Advanced Mastery	A	4	Advanced
P_M	Proficient Mastery	P	3	Proficient
NIM	Needs Improvement Mastery	NI	2	Needs Improvement
F_M	Failing Mastery	F	1	Failing
P+	Above Proficient	A	4	Advanced

### E. daDayForm Lookup

This table lists the first item position on the second day of testing:

Grade	Subject	Day2FirstItem
10	ela	37
10	mat	27

### F. daReportingCategoriesLookup

This table lists the possible item reporting categories by subject. The actual reporting categories that exist may vary by grade and year. The provided sort order is the generic hierarchy of appearance when a reporting category exists for a grade:

Subject	Generic Sort Order	dalref. Cat2	Item Display Code: (RepCatCode)	Student Report Text: (RepCatText)
ela	1		LA	Language
	2		LT	Reading
	3		CT	Composition Topic Development
	4		CC	Composition Standard English Conventions
mat	1		OA	Operations & Algebraic Thinking
	2		NT	Number & Operations in Base Ten
	3		NF	Number & Operations-Fractions
	4		MD	Measurement and Data
	5		RP	Ratios & Proportional Relationships
	6		NS	The Number System
	7		EE	Expressions & Equations
	8		FN	Functions
	9		NQ	Number & Quantity
	10		AF	Algebra & Functions
	11		GE	Geometry
	12		SP	Statistics & Probability
sci	1	1	ES	Earth and Space Science
	2	2	LS	Life Science
	3	3	PS	Physical Sciences
	4	4	TE	Technology/Engineering
bio	1	1	BC	Biochemistry and Cell Biology
	2	2	GE	Genetics
	3	3	AP	Anatomy and Physiology
	4	4	EV	Evolution and Biodiversity
	5	5	EC	Ecology
che	1	1	TH	Properties of Matter and Thermochemistry
	2	2	AS	Atomic Structure and Periodicity
	3	3	BR	Bonding and Reactions
	4	4	SO	Solutions, Equilibrium, and Acid-Base Theory
phy	1	1	MF	Motion and Forces
	2	2	HT	Heat and Heat Transfer
	3	3	WV	Waves and Radiation
	4	4	EM	Electromagnetism
tec	1	1	ED	Engineering Design
	2	2	CM	Construction and Manufacturing
	3	3	FL	Fluid and Thermal Systems
	4	4	EL	Electrical and Communication Systems

**H. Non-Standard Accommodation Footnote Text (Student Report):**

tblStudem. NSAFooter ID	Non-Standard Accommodation	Text
1	ElaAcom26	Information provided by the school indicates your child received a nonstandard accommodation (the ELA Reading Comprehension test was read aloud to your child) as required by his or her IEP or 504 plan.
2	CompAccom29	Information provided by the school indicates your child received a nonstandard accommodation (the ELA Composition test was scribed for your child) as required by his or her IEP or 504 plan.
3	ElaAccom26 and CompAccom29	Information provided by the school indicates your child received a nonstandard accommodation (the ELA Reading Comprehension test was read aloud to your child; the ELA Composition test was scribed for your child) as required by his or her IEP or 504 plan.
4	MatAccom30	Information provided by the school indicates your child received a nonstandard accommodation (your child used a calculator for the non-calculator session of the Mathematics test) as required by his or her IEP or 504 plan.

**I. Graduation Requirement Status Footnote Text (Student Report):**

tblScoredItem. CDFooter	Text
1	Your child has not met the MCAS graduation requirement in this subject.
2	Your child has met the MCAS testing requirement in this subject for graduation, but requires an Educational Proficiency Plan.
3	Your child has met the MCAS graduation requirement in this subject.
4	Your child has already met the MCAS graduation requirement in this subject.

## Addenda (Post-Approval Edits)

Approval Date: 7/26/2013

Date	Description	Location
7/26/2013	<p><b>Clarification:</b> Not Scorable Code 'N' is not valid for preliminary or post-discrepancy data hand offs (release 3 and 4).</p>	<p>Page 8, <b>Writing Composition Scores – Scoring</b> (Section II.C.iii)</p>
7/26/2013	<p><b>Clarification:</b> Added Note: "(M/S 1)" indicates that rptLEP[sub] may also be '1' in Math and Science for the listed participation statuses.</p>	<p>Page 19, <b>Calculations by Participation Status Summary</b> (Section VI.D.i)</p>
7/26/2013	<p><b>Clarification:</b> StudentID = rptStudentID from DPRaw (verified SASID).</p>	<p>Page 20, <b>StudentID (tblStudemo)</b> (Section VI.D.ii)</p>
7/26/2013	<p><b>ESE Correction:</b> Students are only excluded from Grade 10 Science aggregations based on Continuously Enrolled (sch, dis, sta) variables.</p> <p>Grade 09 Sciences exclude students based on October Enrollment flag, same as 05 &amp; 08 science.</p>	<p>Page 28 Grade 05, 08, and 09 Science(s), 03-10 Math and ELA: <b>Number and Percent of Students by Achievement Level</b> (tblSummary) (Section VI.E.ii)</p>
7/26/2013	<p><b>ESE Requested Change:</b> Set Amend = '2' for students that received updated scores prior to the preliminary data release in 12-13 (release 3).</p> <p>Internal Processing: DP is setting Amend to '79' for DA, DA will set these students to '2' in the megafile.</p>	<p>Page 35, <b>Amend</b> (Deliverables Specifications Section II.A.iv)</p>