Prepared for: 

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by: 

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Smarter Balanced Reporting

SmarterApp Interface Specification

Test Score Batching

Approvals

|  |  |  |  |
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## 

## 

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## 

## Abstract

This is the format specification describing the required input to the Test Score Batching system, which takes XML input from a Test Integrator component and feeds the appropriate data into the Data Warehouse. This document is valid for the RFP-15 Milestone 6 and will be updated upon the release of RFP-15 Milestone 6.

## Purpose

The purpose of this document is to provide a format specification describing the required input to the Test Score Batching system, which takes XML input from a Test Integrator component and feeds the appropriate data into the Data Warehouse. The specification includes a table describing each XML node and attribute. In addition, the XSD and a sample XML file are included for reference.

This specification represents the combined work of Smarter Balanced and the vendors working on related contracts.

The format specification below is derived from the output XML definitions from the source systems (Test Delivery System and Test Integration components). The specification includes the data that the Test Score Batcher will process. Any additional information provided by a Test Delivery System or Test Integration component will not be processed by the Test Score Batcher, but will be archived as copies of the original source XML.

## References

|  |  |  |  |
| --- | --- | --- | --- |
| **Ref** | **Reference** | **Author** | **Version** |
| 1 | Common Education Data Standards (CEDS) specification (https://ceds.ed.gov/elements.aspx) | ceds.ed.gov | 4.0 |

## 

## Score Batching Format Specification

The table below outlines data elements of interest for the Data Warehouse and Reporting application. The elements that are not specified in the table will not be processed but stored with the original audit document as long as the document passes XSD validation. The XSD format is specified later in the document.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width | Required | Data Element Description | Acceptable Values | Data Type | Reference |
| Test | testId |  | 255 | Y | The Test Authoring ID of the test, independent of client, season and year | One or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentIdentifier  ID #1067 |
|  | subject |  | 10 | Y | Subject of the test. ELA/MATH | ELA/MATH | xsd:token |  |
|  | grade |  | 100 | Y | Tested grade. | IT - Infant/toddler PR - Preschool PK - Prekindergarten TK - Transitional Kindergarten  KG - Kindergarten 01 - First grade 02 - Second grade 03 - Third grade 04 - Fourth grade 05 - Fifth grade 06 - Sixth grade 07 - Seventh grade 08 - Eighth grade 09 - Ninth grade 10 - Tenth grade 11 - Eleventh grade 12 - Twelfth grade 13 - Grade 13 PS - Postsecondary UG - Ungraded | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentLevelForWhichDesigned  ID #177 |
|  | assessmentType |  | 20 | Y | Type of assessment | Summative  Interim Comprehensive  Interim Access Blocks | xsd:token | [CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentType  ID #29 |
|  | academicYear |  | 4 | Y | Current academic year | 1900 <= YYYY <= 9999 | xsd:integer | CEDS [1]: K12 -> K12 School -> Session -> SchoolYear  ID #243 |
|  | assessmentVersion |  | 30 | Y | Version of this assessment | String | xsd:token |  |
| Test | testId | TDSReport:Test | 255 | Y | The Test Authoring ID of the test, independent of client, season and year | one or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentIdentifier  ID #1067 |
|  | assessmentVersion |  | 30 | Y | Version of this assessment | string | xsd:token |  |
|  | assessmentType |  | 20 | Y | Type of assessment | one or more printable ASCII characters.  Examples:  Summative  Formative  Interim | xsd:token | [CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentType  ID #29 |
|  | academicYear |  | 4 | Y | Current academic year | 1900 <= YYYY <= 9999 | xsd:short | CEDS [1]: K12 -> K12 School -> Session -> SchoolYear  ID #243 |
|  | subject |  | 10 | Y | Subject of the test. E.g. ELA or MATH. | ELA  MATH | xsd:token |  |
|  | grade |  | 100 | Y | Tested grade. | IT - Infant/toddler  PR - Preschool  PK - Prekindergarten  TK - Transitional Kindergarten  KG - Kindergarten  01 - First grade  02 - Second grade  03 - Third grade  04 - Fourth grade  05 - Fifth grade  06 - Sixth grade  07 - Seventh grade  08 - Eighth grade  09 - Ninth grade  10 - Tenth grade  11 - Eleventh grade  12 - Twelfth grade  13 - Grade 13  PS - Postsecondary  UG - Ungraded | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentLevelForWhichDesigned  ID #177 |
| Examinee | key | TDSReport: Examinee | 16 | N | Internal examinee key | Positive 64-bit integer | xsd:unsignedLong |  |
| ExamineeAttribute | name | TDSReport: Examinee : ExamineeAttribute | 50 | Y | Name of the attribute. | LastOrSurname  FirstName  MiddleName  Birthdate  StudentIdentifier  AlternateSSID  GradeLevelWhenAssessed  Sex  HispanicOrLatinoEthnicity  AmericanIndianOrAlaskaNative  Asian  BlackOrAfricanAmerican  White  NativeHawaiianOrOtherPacificIslander  DemographicRaceTwoOrMoreRaces  IDEAIndicator  LEPStatus  Section504Status  EconomicDisadvantageStatus  LanguageCode  EnglishLanguageProficiencyLevel  MigrantStatus  FirstEntryDateIntoUSSchool  LimitedEnglishProficiencyEntryDate  LEPExitDate  TitleIIILanguageInstructionProgramType  PrimaryDisabilityType | xsd:token | CEDS [1] and ART spec [2]. See Table 3 for details. |
|  | value |  | 500 | Y | Attribute value | Varies per attribute | xsd:token |  |
|  | *context* |  | 50 | Y | Context of the attribute (currently either INITIAL or FINAL). | INITIAL FINAL | xsd:token | - |
|  | *contextDate* |  | 23 | Y | Date and time the attribute was fetched from ART | time+date | xsd:dateTime | - |
| ExamineeRelationship | name | TDSReport: Examinee: ExamineeRelationship | 100 | Y | Name of the attribute. | DistrictID  DistrictName  SchoolID  SchoolName  StateAbbreviation  StudentGroupName | xsd:token |  |
|  | value |  | 500 | Y | attribute value | one or more printable ASCII characters | xsd:token |  |
|  | context |  | 50 | Y | Context of the attribute (FINAL). | FINAL | xsd:token |  |
| Opportunity | server | TDSReport: Opportunity | 128 | Y | Name of the TDS server that was used to administer this test. | one or more printable ASCII characters | xsd:token |  |
|  | effectiveDate |  | 10 | Y | The first date of the first window for a given assessment. | YYYY-MM-DD, where 2000 <= YYYY <= 9999 01 <= MM <= 12 01 <= DD <= 31 | xsd:string |  |
|  | dateCompleted |  | 23 | Y | Date the student submitted the opportunity for scoring. | date+time | xsd:dateTime | CEDS [1]: K12 -> Assessments -> Assessment Administration  ID #964 |
| Accommodation | type | TDSReport: Opportunity: Accommodation | 510 | Y | Accommodation or accessibility feature (e.g. 'ColorContrast') | AmericanSignLanguage  Language  ClosedCaptioning  TextToSpeech  NonEmbeddedAccommodations  PrintOnDemand  StreamlinedInterface  Other text entries(will not be processed) | xsd:token |  |
|  | value |  | 510 | Y | accommodation value (e.g. 'Magenta'). Note that there is a one to one relationship between value and code. | One or more printable ASCII characters | xsd:token |  |
|  | code |  | 510 | Y | Accommodation code | NU\_Braille  NEA\_Abacus, NEA\_AR, NEA\_Calc, NEA\_MT, NEA\_RA\_Stimuli, NEA\_SC\_WritItems, NEA\_STT, NEA\_NoiseBuf  TDS\_PoD\_Stim  Other text entries(will not be processed) | xsd:token |  |
|  | *context* |  | 50 | N | Context of the attribute (currently either INITIAL or FINAL). | INITIAL FINAL  Either this or “context” is required but not both. | xsd:token |  |
| Score  (see table on required score elements below) | measureOf | TDSReport: Opportunity: Score | 150 | Y | The set of items this value measures. Usually a strand or an AffinityGroup. E.g. Overall or Mathematics-10.2 or Listening. | Overall  Claim1  Claim2  Claim3  Claim4  AmericanSignLanguage  Language  ClosedCaptioning  TextToSpeech  NonEmbeddedAccommodations  PrintOnDemand  StreamlinedInterface | xsd:token |  |
|  | measureLabel |  | 150 | Y | Label of this measure. E.g. ScaleScore, PerformanceLevel | ScaleScore  PerformanceLevel  Accommodation | xsd:token |  |
|  | value |  | 64 | Y | Value of the measure. E.g. 1034 (for ScaleScore) or Y (for Attempted). | float, one or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item Response  ID #724 |
|  | standardError |  | 8 | N | Standard error of the measure. | float, null allowed | xsd:token |  |
| Item | position | TDSReport: Opportunity: Item | 8 | Y | ordinal position of item on test | positive 32-bit integer, null allowed | xsd:unsignedInt |  |
|  | segmentId |  | 250 | Y | Segment the item was administered on. | one or more printable ASCII characters | xsd:token |  |
|  | key |  | 40 | Y | internal ID from Item Authoring. This is the item identifier. | positive 64-bit integer | xsd:unsignedLong |  |
|  | clientId |  | 80 | N | how client identifies the item | one or more printable ASCII characters | xsd:token |  |
|  | operational |  | 8 | Y | 1 if operational, 0 if field test | 0,1 | xsd:unsignedInt |  |
|  | isSelected |  | 8 | Y | Whether the student submitted his response for scoring or not. Possible values 0 (not submitted) or 1 (submitted). | 0,1 | xsd:unsignedInt |  |
|  | format |  | 50 | Y | Item type (e.g. MC (multiple choice) or GI (grid item)). | associateInteraction  choiceInteraction  customInteraction  drawingInteraction  endAttemptInteraction  extendedTextInteraction  gapMatchInteraction  graphicAssociateInteraction  graphicGapMatchInteraction  graphicOrderInteraction  hotspotInteraction  hottextInteraction  inlineChoiceInteraction  matchInteraction  mediaInteraction  orderInteraction  positionObjectInteraction  selectPointInteraction  sliderInteraction  textEntryInteraction  uploadInteraction  EBSR  EQ  ER  GI  HT  HTQ  MC  MI  MS  NL  SA  TI  TUT  WER  WORDLIST  Stimulus | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item APIP Interaction  ID #1158 |
|  | score |  | 8 | Y | number of scorepoints earned by Examinee. -1 means not scored | unsigned float, -1 allowed | xsd:float |  |
|  | scoreStatus |  | 50 | N | Provided by independent item scoring engine | NOTSCORED  SCORED  SCORINGERROR  WAITINGFORMACHINESCORE |  |  |
|  | adminDate |  | 23 | Y | Date and time item was administered to Examinee | date+time | xsd:dateTime |  |
|  | numberVisits |  | 8 | Y | Number of times the student modifies his response to the item. | positive 32-bit integer | xsd:unsignedInt |  |
|  | mimeType |  | 255 | Y | MIME type of item response. | one or more printable ASCII characters |  |  |
|  | strand |  | 150 | Y | Top level strand in the strand hierarchy the item is on. | one or more printable ASCII characters |  |  |
|  | contentLevel |  | 150 | Y | Lowest level strand in the strand hierarchy the item is part of. | one or more printable ASCII characters |  |  |
|  | pageNumber |  | 8 | Y | Number of the (online) page the item appears on. | positive 32-bit integer | xsd:unsignedInt |  |
|  | pageVisits |  | 8 | Y | Number of times the student visited the (online) page this item is on. | positive 32-bit integer | xsd:unsignedInt |  |
|  | pageTime |  | 8 | Y | Time (in milliseconds) the student spent on the (online) page this item is on. | signed 32-bit integer | xsd:int |  |
|  | dropped |  | 8 | Y | Whether the item is dropped. If an item was administered but later inactivated the DW might receive a new record with this flag turned on. | 0 or 1 | xsd:unsignedInt |  |

## 

## ExamineeAttribute Element

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Width** | **Required** | **Data Element Description** | **Acceptable Values** | **Data Type** | **Examples** | **Reference** |
| LastOrSurname | 35 | Reg – Y Rep - N | Student Last Name | One or more printable ASCII characters | Alphanumeric/special  xsd:token | Sojka | [CEDS ID 172](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5172)  K12->K12 Student->Identity->Name |
| FirstName | 35 | Reg – Y Rep - N | Student First Name | One or more printable ASCII characters | Alphanumeric/special  xsd:token | Bud | [CEDS ID 115](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5115) K12->K12 Student->Identity->Name |
| MiddleName | 35 | N | Student Middle Name | One or more printable ASCII characters | Alphanumeric/special  xsd:token | Johan | [CEDS ID 184](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5184) K12->K12 Student->Identity->Name |
| Birthdate | 10 | Reg – N Rep - N | The year, month and day on which a person was born, in the format YYYY-MM-DD (zero-padded) | 1900 <= YYYY <= 9999 01 <= MM <= 12 01 <= DD <= 31 | Numeric+dash  xsd:string | 2013-08-31 | [CEDS ID 33](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5033) K12->K12 Student->Demographic |
| StudentIdentifier | 40 | Reg – Y Rep - N | State assigned student Identifier which is unique within that state. Every student should have a unique SSID within their state. | One or more printable ASCII characters | Alphanum  xsd:token | 82811007 | [CEDS ID 1071](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5157) K12->K12 Student->Identity->Identification |
| AlternateSSID | 50 | Y | A State assigned student Identifier which is unique within that state. This identifier is used by states that do not wish to share student personal identifying information outside of state-deployed systems. Components sending data to Consortium-deployed systems would use this alternate identifier rather than the student's SSID. | One or more printable ASCII characters | Alphanum  xsd:token | 32547685ABC | N/A |
| GradeLevelWhenAssessed | 2 | Y | Student's enrolled grade. | IT PR PK TK  KG 01  02  03 04 05 06 07 08 09 10 11 12 13 PS UG | Alphanum  xsd:token | 05 | [CEDS ID 126](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5126) K12 -> Assessments -> Assessment Registration |
| Sex | 6 | Y | Student's gender | Male Female | enum  xsd:token | Female | [CEDS ID 255](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5255) K12->K12 Student->Demographic |
| HispanicOrLatinoEthnicity | 3 | Y | Hispanic Ethnic Flag | Yes No | enum  xsd:token | No | [CEDS ID 144](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5144) K12->K12 Student->Demographic |
| AmericanIndianOrAlaskaNative | 3 | Y | American Indian/Alaskan Native Race Flag | Yes No | enum  xsd:token | Yes | [CEDS ID 16](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5655) K12->K12 Student->Demographic |
| Asian | 3 | Y | Asian Race Flag | Yes No | enum  xsd:token | No | [CEDS ID 20](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5656) K12->K12 Student->Demographic |
| BlackOrAfricanAmerican | 3 | Y | African American Race Flag | Yes No | enum  xsd:token | Yes | [CEDS ID 34](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5657) K12->K12 Student->Demographic |
| White | 3 | Y | White Race Flag | Yes No | enum  xsd:token | No | [CEDS ID 301](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5659) K12->K12 Student->Demographic |
| NativeHawaiianOrOtherPacificIslander | 3 | Y | Native Hawaiian/Other Pacific Islander Race Flag | Yes No | enum  xsd:token | Yes | [CEDS ID 192](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5658) K12->K12 Student->Demographic |
| DemographicRaceTwoOrMoreRaces | 3 | Y | A person having origins in any of more than one of the racial groups. | Yes No | enum  xsd:token | Yes | [CEDS ID 973](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5974) K12 -> K12 Student -> Demographic |
| IDEAIndicator | 3 | Y | Student Enrolled in IEP | Yes No | enum  xsd:token | No | [CEDS ID 151](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5151) K12->K12 Student->Disability |
| LEPStatus | 3 | Y | Student identified as LEP | Yes No | enum  xsd:token | Yes | [CEDS ID 180](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5180) K12 -> K12 Student -> Limited English Proficiency |
| Section504Status | 22 | Y | Student with 504 plan | Yes No Unknown/Cannot Provide | enum  xsd:token | No | [CEDS ID 249](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5249) K12 -> K12 Student -> Disability |
| EconomicDisadvantageStatus | 3 | Y | An indication that the student met the State criteria for classification as having an economic disadvantage. | Yes No | enum  xsd:token | Yes | [CEDS ID 86](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5086) K12 -> K12 Student -> Economically Disadvantaged -> EconomicDisadvantageStatus |
| LanguageCode | 3 | N | The code for the specific language or dialect that a person uses to communicate. | see http://ceds.ed.gov/languageCodes.aspx | enum  xsd:token | fiu | [CEDS ID 317](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5317) K12 -> K12 Student -> Language  and [CEDS Language Codes](https://ceds.ed.gov/languageCodes.aspx) |
| EnglishLanguageProficiencyLevel | 20 | N | An indication of the progress made by a student toward English proficiency | One or more printable ASCII characters | Alphanum  xsd:token | PROGRESS | N/A |
| MigrantStatus | 3 | N | Persons who are, or whose parents or spouses are, migratory agricultural workers, including migratory dairy workers, or migratory fishers, and who, in the preceding 36 months, in order to obtain, or accompany such parents or spouses, in order to obtain, temporary or seasonal employment in agricultural or fishing work (A) have moved from one LEA to another; (B) in a state that comprises a single LEA, have moved from one administrative area to another within such LEA; or (C) reside in an LEA of more than 15,000 square miles, and migrate a distance of 20 miles or more to a temporary residence to engage in a fishing activity. | Yes No <blank> | enum  xsd:token | Yes | [CEDS ID 189](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5189) K12 -> K12 Student -> Migrant -> MigrantStatus |
| FirstEntryDateIntoUSSchool | 10 | N | The year, month and day of a person's initial enrollment into a United States school. | YYYY-MM-DD <blank> | Numeric+dash  xsd:string | 2013-08-31 | [CEDS ID 529](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5520) K12 -> K12 Student -> Immigrant |
| LimitedEnglishProficiencyEntryDate | 10 | N | The year, month and day a student classified as limited English proficient entered the LEP program. | YYYY-MM-DD <blank> | Numeric+dash  xsd:token | 2013-08-31 | [CEDS ID 1247](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=6213) K12 -> K12 Student -> Limited English Proficiency |
| LEPExitDate | 10 | N | The year, month and day a student classified as limited English proficient exited the LEP program. | YYYY-MM-DD <blank> | Numeric+dash  xsd:token | 2013-08-31 | [CEDS ID 570](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5562) K12 -> K12 Student -> Limited English Proficiency |
| TitleIIILanguageInstructionProgramType | 27 | N | Title III Language Instruction Program Type | DualLanguage, TwoWayImmersion, TransitionalBilingual, DevelopmentalBilingual, HeritageLanguage, ShelteredEnglishInstruction, StructuredEnglishImmersion, SDAIE, ContentBasedESL, PullOutESL, Other | enum  xsd:token | HeritageLanguage | [CEDS ID 447](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5437) K12 -> K12 School -> Institution Characteristics |
| PrimaryDisabilityType | 3 | N | The major or overriding disability condition that best describes a person's impairment. | AUT, DB, DD, EMN, HI, ID, MD, OI, OHI, SLD, SLI, TBI, VI | enum  xsd:token | EMN | [CEDS ID 218](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5218) K12 -> K12 Student -> Disability |

## ExameneeRelationship Element

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Width** | **Required** | **Data Element Description** | **Acceptable Values** | **Data Type** | **Examples** | **Reference** |
| StateAbbreviation | 2 | Y | 2 character state code | Two-character US State identifier as defined by CEDS and extended as follows: AA, AE, AP, TS, OT.  AA: Armed Forces Americas AE: Armed Forces Africa, Canada, Europe and Mideast AP: Armed Forces Pacific TS: Test State OT: Other | enum  xsd:token | WA | [CEDS ID 267](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5267) K12 -> SEA -> Address [USPS](https://www.usps.com/send/official-abbreviations.htm) |
| DistrictId | 40 | Y | The district responsible for specific educational services and/or instruction of the student. | One or more printable ASCII characters | Alphanum  xsd:token | 71715 | [CEDS ID 637](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5639)  K12 -> K12 Student -> Enrollment |
| DistrictName | 60 | Y | The name of a non-person entity (in this case a district). | One or more printable ASCII characters | Alphanum  xsd:token | Oakland Unified | [CEDS ID 204](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5204)  K12 -> LEA -> Identification |
| SchoolId | 40 | Y | The school responsible for specific education services and/or instruction of the student. | One or more printable ASCII characters | Alphanum  xsd:token | 8716411 | [CEDS ID 1069](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5155)  K12->K12 Student->Enrollment |
| SchoolName | 60 | Y | Institution Name | One or more printable ASCII characters | Alphanumeric/special  xsd:token | Lake Los Angeles Elementary | [CEDS ID 191](https://ceds.ed.gov/CEDSElementDetails.aspx?TermId=5191) K12 -> K12 School -> Identification |
| StudentGroupName | 50 | Y | Name of student group | One or more printable ASCII characters | Alphanum  xsd:token | Brennan Math | N/A |

## Accommodation Element

Data Warehouse processes a specific set of accommodations. Unprocessed accommodations will be available as a part of raw audit XML.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Width** | **Required** | **Data Element Description** | **Acceptable Values** | **Data Type** | **Examples** |
| AmericanSignLanguage | 10 | N | Allows students to view test content translated into ASL by a human signer. | TDS\_ASL0 TDS\_ASL1 | enum  xsd:token | TDS\_ASL1 |
| ClosedCaptioning | 20 | N | The Closed Captioning accommodation will not be available for the Field Test; however, for students who would typically have received this accommodation, the Closed Captioning setting can still be selected in TIDE. For the Field Test only, selecting this setting will suppress the Listening portion of the ELA test. | TDS\_ClosedCap0 TDS\_ClosedCap1 | enum  xsd:token | TDS\_ClosedCap0 |
| Language | 20 | N | All tests are presented in English. Students who qualify for a Spanish language translation will view items in both English and Spanish (stacked format). Students who require tests in braille should have the braille option selected. | ENU ENU-Braille ESN | enum  xsd:token | ENU |
| PrintOnDemand | 40 | N | Sets student's print on demand accommodation. Allows student to request printing of stimuli. | TDS\_PoD0 TDS\_PoD\_Stim  DS\_PoD\_Stim&TDS\_PoD\_Item  TDS\_PoD\_Item | enum  xsd:token | TDS\_PoD0 |
| StreamlinedInterface | 20 | N | By default, all tests use the standard interface. This interface is compatible with all supported desktops and tablets. The streamlined interface presents the test in an alternate, simplified format in which the items are displayed below the stimuli. All tool and navigation buttons are on the bottom of the screen. Important: The streamlined interface is not intended to be tablet compatible. | TDS\_TS\_Modern TDS\_TS\_Accessibility | enum  xsd:token | TDS\_TS\_Modern |
| TextToSpeech | 40 | N | Sets student's text to speech accommodation. Students with this test setting enabled may listen to the read-aloud of the items and/or stimuli in the assessment. Note: Text-to-Speech is not available in Spanish. | TDS\_TTS0 TDS\_TTS\_Item TDS\_TTS\_Stim TDS\_TTS\_Stim&TDS\_TTS\_Item | enum  xsd:token | TDS\_TTS0 |
| NonEmbeddedAccommodations | 20 | N | Some accommodations may need to be provided to students during testing. These should be provided only to those students who are unable to use the embedded test accommodations. | NEA0 NEA\_AR NEA\_RA\_Stimuli NEA\_SC\_WritItems NEA\_STT NEA\_Abacus NEA\_Calc NEA\_MT  NEA\_NoiseBuf | enum  xsd:token | NEA\_STT |

### Accommodations Mapping to Reporting Values

Data Warehouse and Reporting will use the subset of accommodation types and codes for reporting purposes. The reporting uses “feature use code” to determine accessibility services provided. Feature use code is value of a score element with measureLevel of “Accommodation” and measureOf being Accommodation types provided in the table below. Since feature use code is only available on accommodation type level, reporting will apply feature level code to proper code for single selection type/code combination is available and apply feature use code to all codes where multiple options are available.

|  |  |  |
| --- | --- | --- |
| **Type** | **Accommodation Code** | **Reporting Value Mapping** |
| AmericanSignLanguage | TDS\_ASL0 TDS\_ASL1 | AmericanSignLanguage: feature use code value provided for AmericanSignLanguage |
| Language | ENU\_Braille | Braille: feature use code value provided for Language if Language accommodation element code matches to ENU\_Braille, 0 otherwise |
| ClosedCaptioning | TDS\_ClosedCap0 TDS\_ClosedCap1 | ClosedCaptioning: feature use code value provided for ClosedCaptioning |
| TextToSpeech | TDS\_TTS0 TDS\_TTS\_Item TDS\_TTS\_Stim TDS\_TTS\_Stim&TDS\_TTS\_Item | TextToSpeech: feature use code value provided for TextToSpeech |
| NonEmbeddedAccommodations | NEA\_Abacus  NEA\_AR  NEA\_Calc  NEA\_MT  NEA\_RA\_Stimuli  NEA\_SC\_WritItems  NEA\_STT  NEA\_NoiseBuf | Abacus: feature use code value provided for NonEmbeddedAccommodations  AlternativeResponse: feature use code value provided for NonEmbeddedAccommodations  Calculator: feature use code value provided for NonEmbeddedAccommodations  MultiplicationTable: feature use code value provided for NonEmbeddedAccommodations  ReadAloud: feature use code value provided for NonEmbeddedAccommodations  Scribe: feature use code value provided for NonEmbeddedAccommodations  SpeechToText: feature use code value provided for NonEmbeddedAccommodations  NoiseBuffer: feature use code value provided for NonEmbeddedAccommodations |
| PrintOnDemand | TDS\_PoD\_Stim  TDS\_PoD\_Item  DS\_PoD\_Stim&TDS\_PoD\_Item | Print On Demand Stimuli: feature use code value provided for PrintOnDemand if PrintOnDemand accommodation element code matches to TDS\_PoD\_Stim or DS\_PoD\_Stim&TDS\_PoD\_Item, 0 otherwise  Print On Demand Item: feature use code value provided for PrintOnDemand if PrintOnDemand accommodation element code matches to TDS\_PoD\_Item or DS\_PoD\_Stim&TDS\_PoD\_Item, 0 otherwise |
| StreamlinedInterface | TDS\_TS\_Modern TDS\_TS\_Accessibility | StreamlinedInterface: feature use code value provided for StreamlinedInterface |

### Accessibility Feature Use Codes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Feature Use Code** | **Eligible** | **Available** | **Used** | **Notes** |
| 0 | unknown | unknown | unknown |  |
| 1 | unknown | unknown | No |  |
| 2 | unknown | unknown | Yes |  |
| 3 | unknown | No | unknown |  |
| 4 | unknown | No | No |  |
| 5 | unknown | No | Yes | Invalid state |
| 6 | unknown | Yes | unknown |  |
| 7 | unknown | Yes | No |  |
| 8 | unknown | Yes | Yes |  |
| 9 | No | unknown | unknown |  |
| 10 | No | unknown | No |  |
| 11 | No | unknown | Yes | Testing irregularity |
| 12 | No | No | unknown |  |
| 13 | No | No | No |  |
| 14 | No | No | Yes | Invalid state |
| 15 | No | Yes | unknown |  |
| 16 | No | Yes | No |  |
| 17 | No | Yes | Yes | Testing irregularity |
| 18 | Yes | unknown | unknown |  |
| 19 | Yes | unknown | No |  |
| 20 | Yes | unknown | Yes |  |
| 21 | Yes | No | unknown | Testing irregularity |
| 22 | Yes | No | No | Testing irregularity |
| 23 | Yes | No | Yes | Invalid state |
| 24 | Yes | Yes | unknown |  |
| 25 | Yes | Yes | No |  |
| 26 | Yes | Yes | Yes |  |

## 

## Score Mapping

Score element provides values for score, error band, and performance level. All three elements are required for overall score and each claim.

|  |  |  |  |
| --- | --- | --- | --- |
| **measureOf** | **measureLabel** | **optional?** | **mapped value** |
| Overall | ScaleScore | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Overall Score Value, standardError - > Overall Error Band |
| Overall | PerformanceLevel | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Overall Performance Level |
| Claim1 | ScaleScore | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim1 Score Value, standardError - > Claim1 Error Band |
| Claim1 | PerformanceLevel | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim1 Performance Level |
| Claim2 | ScaleScore | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim2 Score Value, standardError - > Claim2 Error Band |
| Claim2 | PerformanceLevel | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim2 Performance Level |
| Claim3 | ScaleScore | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim3 Score Value, standardError - > Claim3 Error Band |
| Claim3 | PerformanceLevel | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim3 Performance Level |
| Claim4 | ScaleScore | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive & test.subject=ELA | value -> Claim4 Score Value, standardError - > Claim4 Error Band |
| Claim4 | PerformanceLevel | required for test.assessmentType = Summative & test.assessmentType=Interim Comprehensive | value -> Claim4 Performance Level |
| Algebra and Functions - Exponential Functions  Algebra and Functions - Linear Functions  Algebra and Functions - Polynomials Functions  Algebra and Functions - Quadratic Functions  Algebra and Functions - Radicals Functions  Algebra and Functions - Rational Functions  Algebra and Functions - Trigonometric Functions  Argument Performance Task  Brief Writes  Edit/Revise  Explanatory Performance Task  Expressions & Equations I (and Proportionality)  Expressions & Equations II  Expressions and Equations  Fractions  Functions  Geometry  Geometry - Applications  Geometry - Circles  Geometry - Proofs  Geometry - Right Triangle Ratios in Geometry  Geometry - Three - Dimensional Geometry  Geometry - Transformations in Geometry  Informational Performance Task  Interpreting Categorical and Quantitative Data  Listen/Interpret  Making Inferences and Justifying Conclusions  Mathematics Performance Task  Measurement and Data  Narrative Performance Task  Number System  Numbers and Operations in Base 10  Operations and Algebraic Thinking  Opinion Performance Task  Probability  Ratio and Proportional Relationships  Read Informational Texts  Read Literary Texts  Research  Statistics and Probability | ScaleScore | one and only one of the listed is required for test.assessmentType = Interim Access Blocks | value -> Score Value for the corresponding Interim Assessment Block |
| Algebra and Functions - Exponential Functions  Algebra and Functions - Linear Functions  Algebra and Functions - Polynomials Functions  Algebra and Functions - Quadratic Functions  Algebra and Functions - Radicals Functions  Algebra and Functions - Rational Functions  Algebra and Functions - Trigonometric Functions  Argument Performance Task  Brief Writes  Edit/Revise  Explanatory Performance Task  Expressions & Equations I (and Proportionality)  Expressions & Equations II  Expressions and Equations  Fractions  Functions  Geometry  Geometry - Applications  Geometry - Circles  Geometry - Proofs  Geometry - Right Triangle Ratios in Geometry  Geometry - Three - Dimensional Geometry  Geometry - Transformations in Geometry  Informational Performance Task  Interpreting Categorical and Quantitative Data  Listen/Interpret  Making Inferences and Justifying Conclusions  Mathematics Performance Task  Measurement and Data  Narrative Performance Task  Number System  Numbers and Operations in Base 10  Operations and Algebraic Thinking  Opinion Performance Task  Probability  Ratio and Proportional Relationships  Read Informational Texts  Read Literary Texts  Research  Statistics and Probability | PerformanceLevel | one and only one of the listed is required for test.assessmentType = Interim Access Blocks. | Value -> Performance Level Value for the corresponding Interim Assessment Block |

Example Summative, ELA

<Score measureOf=*"Overall"* measureLabel=*"ScaleScore"* value=*"245.174914080214"* standardError=*"19.3617008392283"* />

<Score measureOf=*"Overall"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim1"* measureLabel=*"ScaleScore"* value=*"352.897"* standardError=*"619.751"* />

<Score measureOf=*"Claim1"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim2"* measureLabel=*"ScaleScore"* value=*"185.002"* standardError=*"78.321"* />

<Score measureOf=*"Claim2"* measureLabel=*"PerformanceLevel"* value=*"1"* />

<Score measureOf=*"Claim3"* measureLabel=*"ScaleScore"* value=*"403.416"* standardError=*"204.982"* />

<Score measureOf=*"Claim3"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim4"* measureLabel=*"ScaleScore"* value=*"403.416"* standardError=*"204.982"* />

<Score measureOf=*"Claim4"* measureLabel=*"PerformanceLevel"* value=*"2"* />

*Example Interim Comprehensive, MATH*

<Score measureOf=*"Overall"* measureLabel=*"ScaleScore"* value=*"245.174914080214"* standardError=*"19.3617008392283"* />

<Score measureOf=*"Overall"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim1"* measureLabel=*"ScaleScore"* value=*"352.897"* standardError=*"619.751"* />

<Score measureOf=*"Claim1"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim2"* measureLabel=*"ScaleScore"* value=*"185.002"* standardError=*"78.321"* />

<Score measureOf=*"Claim2"* measureLabel=*"PerformanceLevel"* value=*"1"* />

<Score measureOf=*"Claim3"* measureLabel=*"ScaleScore"* value=*"403.416"* standardError=*"204.982"* />

<Score measureOf=*"Claim3"* measureLabel=*"PerformanceLevel"* value=*"2"* />

*Example Interim Access Block, Math:*

<Score measureOf=*"Numbers and Operations in Base 10"* measureLabel=*"ScaleScore"* value=*"352.897"* standardError=*"619.751"* />

<Score measureOf=*"Numbers and Operations in Base 10"* measureLabel=*"PerformanceLevel"* value=*"2"* />

## Score Batching Format XSD

The following XSD is used to validate incoming XML.

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<xs:schema xmlns:xs=*"http://www.w3.org/2001/XMLSchema"*

elementFormDefault=*"qualified"* >

<xs:element name=*"TDSReport"* >

<xs:complexType>

<xs:sequence>

<xs:element

name=*"Test"*

maxOccurs=*"1"*

minOccurs=*"1"* >

<xs:complexType>

<xs:attribute

name=*"name"*

use=*"required"* />

<xs:attribute

name=*"subject"*

use=*"required"* />

<xs:attribute

name=*"testId"*

use=*"required"* />

<xs:attribute

name=*"bankKey"*

type=*"xs:unsignedInt"* />

<xs:attribute

name=*"contract"*

use=*"required"* />

<xs:attribute

name=*"mode"*

use=*"required"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"online"* />

<xs:enumeration value=*"paper"* />

<xs:enumeration value=*"scanned"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute

name=*"grade"*

use=*"required"* />

<!-- not expected to be used for open source, but may be needed for internal purposes -->

<xs:attribute

name=*"handScoreProject"*

type=*"xs:unsignedInt"* />

<!-- new fields requested for open source -->

<xs:attribute

name=*"assessmentType"*

use=*"required"* />

<xs:attribute

name=*"academicYear"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"assessmentVersion"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Examinee"*

maxOccurs=*"1"*

minOccurs=*"1"* >

<xs:complexType>

<xs:choice

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:element name=*"ExamineeAttribute"* >

<xs:complexType>

<xs:attribute

name=*"context"*

type=*"Context"*

use=*"required"* />

<xs:attribute

name=*"name"*

use=*"required"* />

<xs:attribute name=*"value"* />

<xs:attribute

name=*"contextDate"*

type=*"xs:dateTime"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element name=*"ExamineeRelationship"* >

<xs:complexType>

<xs:attribute

name=*"context"*

type=*"Context"*

use=*"required"* />

<xs:attribute

name=*"name"*

use=*"required"* />

<xs:attribute

name=*"entityKey"*

type=*"xs:unsignedLong"* />

<xs:attribute name=*"value"* />

<xs:attribute

name=*"contextDate"*

type=*"xs:dateTime"*

use=*"required"* />

</xs:complexType>

</xs:element>

</xs:choice>

<!-- negative values are used by TDS for testing. -->

<xs:attribute

name=*"key"*

type=*"xs:long"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Opportunity"*

maxOccurs=*"1"*

minOccurs=*"1"* >

<xs:complexType>

<xs:sequence>

<!--

note: DTD has minOccurs=1, but we could get an invalidation for a joined but

not-started test; no seg will have been initialized in this case

-->

<xs:element

name=*"Segment"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:attribute

name=*"id"*

use=*"required"* />

<xs:attribute

name=*"position"*

use=*"required"* >

<xs:simpleType>

<xs:restriction base=*"xs:unsignedByte"* >

<xs:minInclusive value=*"1"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute name=*"formId"* />

<xs:attribute name=*"formKey"* />

<xs:attribute

name=*"algorithm"*

use=*"required"* />

<!-- new field requested for open source -->

<xs:attribute

name=*"algorithmVersion"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Accommodation"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:attribute

name=*"type"*

use=*"required"* />

<xs:attribute

name=*"value"*

use=*"required"* />

<!-- DTD says implied, but this cannot be null -->

<xs:attribute

name=*"code"*

use=*"required"* />

<!-- DTD says implied, but this will always be populated; 0 if not segment-oriented -->

<xs:attribute

name=*"segment"*

use=*"required"* >

<xs:simpleType>

<xs:restriction base=*"xs:unsignedInt"* >

<xs:minInclusive value=*"0"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute

name=*"context"*

type=*"Context"*

use=*"required"* />

<xs:attribute

name=*"contextDate"*

type=*"xs:dateTime"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Score"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:attribute

name=*"measureOf"*

use=*"required"* />

<xs:attribute

name=*"measureLabel"*

use=*"required"* />

<xs:attribute

name=*"value"*

use=*"required"* />

<xs:attribute

name=*"standardError"*

type=*"NullableFloat"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"GenericVariable"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:attribute

name=*"context"*

use=*"required"* />

<xs:attribute

name=*"name"*

use=*"required"* />

<xs:attribute

name=*"value"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Item"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:sequence>

<xs:element

name=*"Response"*

maxOccurs=*"1"*

minOccurs=*"0"* >

<xs:complexType mixed=*"true"* >

<xs:attribute

name=*"date"*

type=*"xs:dateTime"* />

<xs:attribute name=*"type"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"value"* />

<xs:enumeration value=*"reference"* />

<xs:enumeration value=*""* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

</xs:complexType>

</xs:element>

<xs:element

name=*"ScoreInfo"*

maxOccurs=*"1"*

minOccurs=*"0"*

type=*"ScoreInfoType"* />

</xs:sequence>

<xs:attribute

name=*"position"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"segmentId"*

use=*"required"* />

<xs:attribute

name=*"bankKey"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"key"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"operational"*

type=*"Bit"*

use=*"required"* />

<xs:attributegt

name=*"isSelected"*

type=*"Bit"*

use=*"required"* />

<xs:attribute

name=*"format"*

use=*"required"* />

<xs:attribute

name=*"score"*

type=*"UFloatAllowNegativeOne"*

use=*"required"* />

<!-- may not be set for unselected items, or may be set to NOTSCORED -->

<xs:attribute name=*"scoreStatus"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"NOTSCORED"* />

<xs:enumeration value=*"SCORED"* />

<xs:enumeration value=*"WAITINGFORMACHINESCORE"* />

<xs:enumeration value=*"SCORINGERROR"* />

<!-- future -->

<xs:enumeration value=*"APPEALED"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute

name=*"adminDate"*

type=*"xs:dateTime"*

use=*"required"* />

<xs:attribute

name=*"numberVisits"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"mimeType"*

use=*"required"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"text/plain"* />

<xs:enumeration value=*"text/xml"* />

<xs:enumeration value=*"text/html"* />

<xs:enumeration value=*"audio/ogg"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute name=*"clientId"* />

<xs:attribute

name=*"strand"*

use=*"required"* />

<xs:attribute

name=*"contentLevel"*

use=*"required"* />

<xs:attribute

name=*"pageNumber"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"pageVisits"*

type=*"xs:unsignedInt"*

use=*"required"* />

<!--

this should really be unsignedInt, but there are rare occassions

where it cannot be calculated correctly and we get a negative value.

-->

<xs:attribute

name=*"pageTime"*

type=*"xs:int"*

use=*"required"* />

<xs:attribute

name=*"dropped"*

type=*"Bit"*

use=*"required"* />

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute

name=*"server"*

use=*"required"* />

<xs:attribute name=*"database"* />

<xs:attribute

name=*"clientName"*

use=*"required"* />

<xs:attribute

name=*"key"*

use=*"required"* />

<xs:attribute

name=*"oppId"*

use=*"required"* />

<!-- note: DTD says required, but may get invalidation for joined, not-started test -->

<xs:attribute

name=*"startDate"*

type=*"NullableDateTime"* />

<xs:attribute

name=*"status"*

use=*"required"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"appeal"* />

<xs:enumeration value=*"completed"* />

<xs:enumeration value=*"expired"* />

<xs:enumeration value=*"handscoring"* />

<xs:enumeration value=*"invalidated"* />

<xs:enumeration value=*"paused"* />

<xs:enumeration value=*"reported"* />

<xs:enumeration value=*"reset"* />

<xs:enumeration value=*"scored"* />

<xs:enumeration value=*"submitted"* />

<xs:enumeration value=*"pending"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute

name=*"opportunity"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"statusDate"*

type=*"xs:dateTime"*

use=*"required"* />

<xs:attribute

name=*"dateCompleted"*

type=*"NullableDateTime"* />

<xs:attribute

name=*"pauseCount"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"itemCount"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"ftCount"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"abnormalStarts"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"gracePeriodRestarts"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute name=*"taId"* />

<xs:attribute name=*"taName"* />

<xs:attribute name=*"sessionId"* />

<xs:attribute

name=*"windowId"*

use=*"required"* />

<xs:attribute

name=*"windowOpportunity"*

type=*"NullableUInt"* />

<xs:attribute

name=*"dateForceCompleted"*

type=*"NullableDateTime"* />

<xs:attribute name=*"qaLevel"* />

<!-- new field requested for open source -->

<xs:attribute

name=*"assessmentParticipantSessionPlatformUserAgent"*

use=*"required"* />

<!-- the first date of the first window for a given assessment. Format = YYYY-MM-DD -->

<xs:attribute

name=*"effectiveDate"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"Comment"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType mixed=*"true"* >

<!-- TODO: domain values; I've seen GlobalNotes and TESTITEM, but I'm not sure how rigid this is. -->

<xs:attribute

name=*"context"*

use=*"required"* />

<xs:attribute

name=*"itemPosition"*

type=*"NullableUInt"* />

<xs:attribute

name=*"date"*

type=*"xs:dateTime"*

use=*"required"* />

</xs:complexType>

</xs:element>

<xs:element

name=*"ToolUsage"*

maxOccurs=*"unbounded"*

minOccurs=*"0"* >

<xs:complexType>

<xs:sequence>

<xs:element

name=*"ToolPage"*

maxOccurs=*"unbounded"*

minOccurs=*"1"* >

<xs:complexType>

<xs:attribute

name=*"page"*

type=*"xs:unsignedInt"*

use=*"required"* />

<xs:attribute

name=*"groupId"*

use=*"required"* />

<xs:attribute

name=*"count"*

type=*"xs:unsignedInt"*

use=*"required"* />

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute

name=*"type"*

use=*"required"* />

<xs:attribute

name=*"code"*

use=*"required"* />

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<!-- recursive node requires global type so that it can be named -->

<xs:complexType name=*"ScoreInfoType"* >

<xs:sequence>

<xs:element

name=*"ScoreRationale"*

maxOccurs=*"1"*

minOccurs=*"0"* />

<xs:element

name=*"SubScoreList"*

maxOccurs=*"1"*

minOccurs=*"0"* >

<xs:complexType>

<xs:sequence>

<xs:element

name=*"ScoreInfo"*

maxOccurs=*"unbounded"*

minOccurs=*"0"*

type=*"ScoreInfoType"* />

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

<!-- same constaints as item/@score -->

<xs:attribute

name=*"scorePoint"*

type=*"UFloatAllowNegativeOne"* />

<!--

top level will always be "overall" (if not null); this represents the item score. Nested ScoreInfo nodes will have dimention level scores

if applicable, so this will be the dimension name.

-->

<xs:attribute name=*"scoreDimension"* />

<xs:attribute name=*"scoreStatus"* >

<xs:simpleType>

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"Scored"* />

<xs:enumeration value=*"NotScored"* />

<xs:enumeration value=*"WaitingForMachineScore"* />

<xs:enumeration value=*"ScoringError"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute name=*"conditionCode"* >

<xs:simpleType>

<xs:restriction base=*"xs:string"* >

<xs:pattern value=*"(|[A-Z])"* />

<xs:maxLength value=*"1"* />

</xs:restriction>

</xs:simpleType>

</xs:attribute>

</xs:complexType>

<!-- some reusable types -->

<xs:simpleType name=*"Bit"* >

<xs:restriction base=*"xs:unsignedByte"* >

<xs:minInclusive value=*"0"* />

<xs:maxInclusive value=*"1"* />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name=*"Empty"* >

<xs:restriction base=*"xs:string"* >

<xs:enumeration value=*""* />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name=*"NegativeOne"* >

<xs:restriction base=*"xs:string"* >

<xs:enumeration value=*"-1"* />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name=*"NullableDateTime"* >

<xs:union memberTypes=*"xs:dateTime Empty "* >

</xs:union>

</xs:simpleType>

<xs:simpleType name=*"NullableUInt"* >

<xs:union memberTypes=*"xs:unsignedInt Empty "* >

</xs:union>

</xs:simpleType>

<xs:simpleType name=*"NullableFloat"* >

<xs:union memberTypes=*"xs:float Empty "* >

</xs:union>

</xs:simpleType>

<xs:simpleType name=*"Context"* >

<xs:restriction base=*"xs:token"* >

<xs:enumeration value=*"INITIAL"* />

<xs:enumeration value=*"FINAL"* />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name=*"UFloat"* >

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<xs:minInclusive value=*"0"* />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name=*"UFloatAllowNegativeOne"* >

<xs:union memberTypes=*"UFloat NegativeOne "* >

</xs:union>

</xs:simpleType>

</xs:schema>

## Sample XML Input

<TDSReport>

<Test name=*"(SBAC)SBAC-FT-SomeDescription-ELA-7-Fall-2013-2014"* subject=*"ELA"* testId=*"SBAC-FT-SomeDescription-ELA-7"* bankKey=*"200"* contract=*"SBAC"* mode=*"online"* grade=*"07"*

assessmentType=*"Formative"* academicYear=*"2014"* assessmentVersion=*"SomeNewVersion"* />

<Examinee key=*"922171"*>

<ExamineeAttribute context=*"FINAL"* name=*"Birthdate"* value=*"2013-08-31"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"FirstName"* value=*"John"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"Sex"* value=*"Male"* contextDate=*"2014-04-14T11:13:41.803"* />

<ExamineeAttribute context=*"FINAL"* name=*"LastOrSurname"* value=*"Smith"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"StudentIdentifier"* value=*"77043c80-4b0a-11e4-916c-0800200c9a66"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"AlternateSSID"* value=*"CA-9999999598"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"HispanicOrLatinoEthnicity"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"AmericanIndianOrAlaskaNative"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"* />

<ExamineeAttribute context=*"FINAL"* name=*"Asian"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"BlackOrAfricanAmerican"* value=*"Yes"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"White"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"NativeHawaiianOrOtherPacificIslander"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"DemographicRaceTwoOrMoreRaces"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"* />

<ExamineeAttribute context=*"FINAL"* name=*"IDEAIndicator"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"LEPStatus"* value=*"Yes"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"Section504Status"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"* />

<ExamineeAttribute context=*"FINAL"* name=*"EconomicDisadvantageStatus"* value=*"No"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"LanguageCode"* value=*"flu"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"EnglishLanguageProficiencyLevel"* value=*"PROGRESS"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"MigrantStatus"* value=*"Yes"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"FirstEntryDateIntoUSSchool"* value=*"2013-08-31"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"LimitedEnglishProficiencyEntryDate"* value=*"2013-08-31"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"LEPExitDate"* value=*"2013-08-31"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"TitleIIILanguageInstructionProgramType"* value=*"HeritageLanguage"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"FINAL"* name=*"PrimaryDisabilityType"* value=*"EMN"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"INITIAL"* name=*"Birthdate"* value=*""* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"INITIAL"* name=*"GradeLevelWhenAssessed"* value=*"07"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeAttribute context=*"INITIAL"* name=*"StudentIdentifier"* value=*"77043c80-4b0a-11e4-916c-0800200c9a66"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"FINAL"* name=*"DistrictID"* entityKey=*"709"* value=*"CA\_9999827"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"FINAL"* name=*"DistrictName"* entityKey=*"709"* value=*"This Elementary School District"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"FINAL"* name=*"SchoolID"* entityKey=*"9426"* value=*"CA\_9999827\_9999928"* contextDate=*"2014-04-14T11:13:41.810"* />

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<ExamineeRelationship context=*"INITIAL"* name=*"DistrictID"* entityKey=*"709"* value=*"CA\_9999827"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"INITIAL"* name=*"DistrictName"* entityKey=*"709"* value=*"This Elementary School District"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"INITIAL"* name=*"SchoolID"* entityKey=*"9426"* value=*"CA\_999927\_9999928"* contextDate=*"2014-04-14T10:48:43.433"* />

<ExamineeRelationship context=*"INITIAL"* name=*"SchoolName"* entityKey=*"9426"* value=*"My Elementary School"* contextDate=*"2014-04-14T10:48:43.433"* />

<ExamineeRelationship context=*"INITIAL"* name=*"StateAbbreviation"* entityKey=*"3"* value=*"CA"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"INITIAL"* name=*"StateName"* entityKey=*"3"* value=*"California"* contextDate=*"2014-04-14T11:13:41.803"*/>

<ExamineeRelationship context=*"INITIAL"* name=*"StudentGroupName"* value=*"Brennan Math"* contextDate=*"2014-09-14T10:48:43.433"* />

<ExamineeRelationship context=*"INITIAL"* name=*"StudentGroupName"* value=*"Tuesday Science"* contextDate=*"2014-09-14T10:48:43.433"* />

<ExamineeRelationship context=*"INITIAL"* name=*"StudentGroupName"* value=*"Smith Research"* contextDate=*"2014-09-14T10:48:43.433"* />

</Examinee>

<Opportunity server=*"562299-SBASQL8"* database=*"CASBAC\_SHARD\_2013sp"* clientName=*"California"* key=*"71A3EE01-F215-4CCD-B74D-DF1097A01A0C"* oppId=*"1855629"*

startDate=*"2014-04-14T10:49:08.437"* status=*"completed"* opportunity=*"1"* statusDate=*"2014-04-14T11:13:40.900"* dateCompleted=*"2014-04-14T11:13:40.900"* pauseCount=*"0"* itemCount=*"6"* ftCount=*"6"* abnormalStarts=*"0"*

gracePeriodRestarts=*"0"* taId=*"NA"* taName=*"Ringnell, Brandi"* sessionId=*"BLUE-5752-4"* windowId=*"California"* windowOpportunity=*"1"*

assessmentParticipantSessionPlatformUserAgent=*"Mozilla/5.0 (iPad; U; CPU OS 3\_2\_1 like Mac OS X; en-us) AppleWebKit/531.21.10 (KHTML, like Gecko) Mobile/7B405"* effectiveDate=*"2014-04-02"*>

<Segment id=*"(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014"* position=*"1"* formKey=*"200-10545"* formId=*"SBAC-FT-Perf-7-Math-SomeDesc-2"* algorithm=*"fixedform"* algorithmVersion=*"1"*/>

<Accommodation type=*"AmericanSignLanguage"* value=*"Do not show ASL videos"* code=*"TDS\_ASL0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"PrintOnDemand"* value=*"None"* code=*"TDS\_PoD0"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"PrintOnDemand"* value=*"None"* code=*"TDS\_PoD\_Stim&TDS\_PoD\_Item"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"ClosedCaptioning"* value=*"CC1"* code=*"TDS\_ClosedCap0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Language"* value=*"Braille"* code=*"ENU-Braille"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.803"*/>

<Accommodation type=*"StreamlinedInterface"* value=*"Standard Test Shell"* code=*"TDS\_TS\_Modern"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"TextToSpeech"* value=*"None"* code=*"TDS\_TTS0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.803"*/>

fnea0

<Accommodation type=*"ColorChoices"* value=*"Black on White"* code=*"TDS\_CC0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Strikethrough"* value=*"True"* code=*"TDS\_ST1"* segment=*"2"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"System Volume Control"* value=*"Show widget"* code=*"TDS\_SVC1"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Audio Playback Controls"* value=*"Play Stop and Pause"* code=*"TDS\_APC\_PSP"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.810"*/>

<Accommodation type=*"Calculator"* value=*"Scientific"* code=*"TDS\_CalcSciInv"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.803"*/>

<Accommodation type=*"Color Choices"* value=*"Black on White"* code=*"TDS\_CC0"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.810"*/>

<Accommodation type=*"Expandable Passages"* value=*"Expandable Passages On"* code=*"TDS\_ExpandablePassages1"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.810"*/>

<Accommodation type=*"Passage Font Size"* value=*"14pt"* code=*"TDS\_F\_S14"* segment=*"0"* context=*"INITIAL"* contextDate=*"2014-04-14T11:13:41.810"*/>

<Accommodation type=*"Language"* value=*"Braille"* code=*"ENU-Braille"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"*/>

<Accommodation type=*"Non-Embedded Designated Supports"* value=*"None"* code=*"NEDS0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Audio Playback Controls"* value=*"Play Stop and Pause"* code=*"TDS\_APC\_PSP"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Tutorial"* value=*"True"* code=*"TDS\_T1"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Test Progress Indicator"* value=*"Show indicator as a fraction and adjust to test length"* code=*"TDS\_TPI\_ResponsesFix"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"TTS Pausing"* value=*"TTS Pausing On"* code=*"TDS\_TTSPause1"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"TTX Business Rules"* value=*"A203"* code=*"TDS\_TTX\_A203"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Accommodation type=*"Word List"* value=*"No Glossary"* code=*"TDS\_WL0"* segment=*"0"* context=*"FINAL"* contextDate=*"2014-04-14T11:13:41.810"* />

<Score measureOf=*"Overall"* measureLabel=*"ScaleScore"* value=*"245.174914080214"* standardError=*"19.3617008392283"* />

<Score measureOf=*"Overall"* measureLabel=*"PerformanceLevel"* value=*"2"* />

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<Score measureOf=*"Claim2"* measureLabel=*"ScaleScore"* value=*"185.002"* standardError=*"78.321"* />

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<Score measureOf=*"Claim3"* measureLabel=*"PerformanceLevel"* value=*"2"* />

<Score measureOf=*"Claim4"* measureLabel=*"ScaleScore"* value=*"403.416"* standardError=*"204.982"* />

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<Score measureOf=*"NonEmbeddedAccommodations"* measureLabel=*"Accommodation"* value=*"6"* />

<Score measureOf=*"TextToSpeech"* measureLabel=*"Accommodation"* value=*"4"* />

<Score measureOf=*"StreamlinedInterface"* measureLabel=*"Accommodation"* value=*"4"* />

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<Score measureOf=*"PrintOnDemand"* measureLabel=*"Accommodation"* value=*"6"* />

<Score measureOf=*"AmericanSignLanguage"* measureLabel=*"Accommodation"* value=*"6"* />

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scoreStatus=*"SCORED"* adminDate=*"2014-04-14T10:49:10.327"* numberVisits=*"1"* mimeType=*"text/plain"* strand=*"3"* contentLevel=*"3|EE|NA|E"* pageNumber=*"1"* pageVisits=*"1"* pageTime=*"69834"* dropped=*"0"*>

<Response date=*"2014-04-14T10:56:01.077"*>D</Response>

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scoreStatus=*"SCORED"* adminDate=*"2014-04-14T10:49:10.327"* numberVisits=*"1"* mimeType=*"text/plain"* strand=*"2"* contentLevel=*"2|G|NA|C"* pageNumber=*"1"* pageVisits=*"1"* pageTime=*"69834"* dropped=*"0"*>

<Response date=*"2014-04-14T11:09:27.457"*>

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&lt;mstyle displaystyle="true"&gt;

&lt;mn&gt;4&lt;/mn&gt;

&lt;mn&gt;4&lt;/mn&gt;

&lt;mn&gt;1&lt;/mn&gt;

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&lt;/mstyle&gt;

&lt;/math&gt;&lt;/response&gt;

</Response>

</Item>

<Item position=*"5"* segmentId=*"(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014"* bankKey=*"200"* key=*"15560"* operational=*"0"* isSelected=*"1"* format=*"EQ"* score=*"-1"*

scoreStatus=*"NOTSCORED"* adminDate=*"2014-04-14T10:49:10.327"* numberVisits=*"1"* mimeType=*"text/plain"* strand=*"2"* contentLevel=*"2|EE|NA|A"* pageNumber=*"1"* pageVisits=*"1"* pageTime=*"69834"* dropped=*"0"*>

<Response date=*"2014-04-14T11:09:27.423"*>

&lt;response&gt;&lt;math xmlns="http://www.w3.org/1998/Math/MathML"&gt;

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&lt;mn&gt;2&lt;/mn&gt;

&lt;/mstyle&gt;

&lt;/math&gt;&lt;/response&gt;

</Response>

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<Item position=*"4"* segmentId=*"(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014"* bankKey=*"200"* key=*"15562"* operational=*"0"* isSelected=*"1"* format=*"EQ"* score=*"-1"* scoreStatus=*"NOTSCORED"* adminDate=*"2014-04-14T10:49:10.327"* numberVisits=*"1"* mimeType=*"text/plain"* strand=*"4"* contentLevel=*"4|EE|NA|E"* pageNumber=*"1"* pageVisits=*"1"* pageTime=*"69834"* dropped=*"0"*>

<Response date=*"2014-04-14T11:13:25.493"* >

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&lt;mi&gt;y&lt;/mi&gt;

&lt;/mfrac&gt;

&lt;mo&gt;&amp;#x2217;&lt;/mo&gt;

&lt;mfrac&gt;

&lt;mi&gt;x&lt;/mi&gt;

&lt;mrow&gt;

&lt;mn&gt;1&lt;/mn&gt;

&lt;mn&gt;0&lt;/mn&gt;

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&lt;mo&gt;&amp;#x2212;&lt;/mo&gt;

&lt;mo&gt;&amp;#xF7;&lt;/mo&gt;

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&lt;/mstyle&gt;

&lt;/math&gt;&lt;/response&gt;

</Response>

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<Response date=*"2014-04-14T11:03:10.913"*>

&lt;p&gt;2 miles away from the beginning&lt;/p&gt;

</Response>

</Item>

<Item position=*"6"* segmentId=*"(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014"* bankKey=*"200"* key=*"15573"* operational=*"0"* isSelected=*"1"* format=*"GI"* score=*"-1"* scoreStatus=*"NOTSCORED"* adminDate=*"2014-04-14T10:49:10.327"* numberVisits=*"1"* mimeType=*"text/xml"* strand=*"4"* contentLevel=*"4|EE|NA|E"* pageNumber=*"1"* pageVisits=*"1"* pageTime=*"69834"* dropped=*"0"*>

<Response date=*"2014-04-14T11:13:25.480"*>

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&lt;!-- MACHINE GENERATED 4/14/14 8:18 AM. DO NOT EDIT --&gt;

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&lt;!ELEMENT AnswerSet (Question+)&gt;

&lt;!ELEMENT AtomicObject (#PCDATA)&gt;

&lt;!ELEMENT EdgeVector (#PCDATA)&gt;

&lt;!ELEMENT GridImageTestPoints (TestPoint\*)&gt;

&lt;!ELEMENT LabelList (#PCDATA)&gt;

&lt;!ELEMENT Object (PointVector,EdgeVector,LabelList,ValueList)&gt;

&lt;!ELEMENT ObjectSet (Object,AtomicObject+)&gt;

&lt;!ELEMENT PointVector (#PCDATA)&gt;

&lt;!ELEMENT Question (QuestionPart)&gt;

&lt;!ATTLIST Question id NMTOKEN #REQUIRED&gt;

&lt;!ELEMENT QuestionPart (LabelList,GridImageTestPoints,ObjectSet)&gt;

&lt;!ATTLIST QuestionPart id NMTOKEN #REQUIRED&gt;

&lt;!ELEMENT TestPoint (#PCDATA)&gt;

&lt;!ELEMENT ValueList (#PCDATA)&gt;

]&gt;

&lt;AnswerSet&gt;&lt;Question id=""&gt;&lt;QuestionPart id="1"&gt;&lt;ObjectSet&gt;&lt;Object&gt;&lt;PointVector&gt;{(390,290)(390,200)(180,290)(300,110)(180,200)(210,110)}&lt;/PointVector&gt;&lt;EdgeVector&gt;{ {(390,290),(390,200)} {(390,290),(180,290)} {(390,200),(300,110)} {(180,290),(180,200)} {(180,200),(210,110)}}&lt;/EdgeVector&gt;&lt;LabelList&gt; {} &lt;/LabelList&gt;&lt;ValueList&gt; {} &lt;/ValueList&gt;&lt;/Object&gt;&lt;AtomicObject&gt;{bench(180,170)}&lt;/AtomicObject&gt;&lt;AtomicObject&gt;{bench(390,170)}&lt;/AtomicObject&gt;&lt;/ObjectSet&gt;&lt;SnapPoint&gt;&lt;/SnapPoint&gt;&lt;Lines&gt;&lt;Line sourceX="390" sourceY="120" targetX="390" targetY="210" dir="none" style="solid"/&gt;&lt;Line sourceX="390" sourceY="120" targetX="180" targetY="120" dir="none" style="solid"/&gt;&lt;Line sourceX="390" sourceY="210" targetX="300" targetY="300" dir="none" style="solid"/&gt;&lt;Line sourceX="180" sourceY="120" targetX="180" targetY="210" dir="none" style="solid"/&gt;&lt;Line sourceX="180" sourceY="210" targetX="210" targetY="300" dir="none" style="solid"/&gt;&lt;/Lines&gt;&lt;/QuestionPart&gt;&lt;/Question&gt;&lt;/AnswerSet&gt;

</Response>

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<Response date=*"2014-03-25T15:53:17.637"* >

&lt;p&gt;&amp;nbsp;&amp;nbsp;&amp;nbsp;&amp;nbsp; For historical reasons, the word &amp;quot;algebra&amp;quot; has several related meanings in mathematics, as a single word or with qualifiers. Such a situation, where a single word has many meanings in the same area of mathematics, may be confusing. However the distinction is easier if one recalls that the name of a scientific area is usually singular and without an article and the name of a specific structure requires an article or the plural.&lt;/p&gt;

&lt;p&gt;&amp;nbsp;&lt;/p&gt;

&lt;p&gt;&amp;nbsp;&amp;nbsp;&amp;nbsp;&amp;nbsp;&lt;/p&gt;

</Response>

<ScoreInfo scorePoint=*"4"* scoreDimension=*"overall"* scoreStatus=*"Scored"*>

<ScoreRationale>Some information here about the score</ScoreRationale>

<SubScoreList>

<ScoreInfo scorePoint=*"2"* scoreDimension=*"Conventions"* scoreStatus=*"Scored"*>

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<Response date=*"2014-04-24T12:32:46.377"*>A,B,C,F</Response>

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&lt;td&gt;Winter&lt;/td&gt;

&lt;td&gt;White Fur, Eats Pine Needles and Bark, Runs in Snow&lt;/td&gt;

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<ScoreInfo />

</Item>

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