

SIF-AU Assessment Objects, February 2018 Draft

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The 2016 and 2017 assessment workshops conducted by NSIP have identified three sets of objects relevant to assessment, that should be encoded in SIF-AU:

- **Gradebook assessment** objects, intended for primary school assessment and secondary formative assessment, and including end of term grades.
- **Summative assessment** objects, intended for secondary school assessment, and capturing complex, externally assessed assessments.
- **Credentials**, intended for secondary school assessment, and presenting achievements of students which form part of their student transcript.

The 2017 workshop in particular highlighted the need for assessment objects to be provided at varying levels of granularity, according to the needs of the consumer. Object design reflects that need by:

- Making many of the characteristics specifying details of assessment optional;
- Permitting more detailed information to be provided through recursive links (an assignment may optionally consist of more detail sub-assignments; a score may optionally consist of sub-scores)
- Allowing parties to negotiate mutual knowledge in advance of the actual data exchange, if the parties come from different contexts (e.g. explicit details on marks, learning standards, markers). If the parties have shared context around the assessment, providing that level of detail should be unnecessary.

The SIF-AU standard up until SIF 1.4 included objects which addressed external summative assessment at a high level of sophistication, taken from the SIF-US data model. Those objects had not seen any usage in Australia, and did not respond to the more immediate need for gradebook assessment; they were withdrawn until local requirements could be established. In the interim, a custom set of objects was generated specific to NAPLAN Online, as the most broadly visible external summative assessment in Australia.

Analysis of local requirements for external summative assessment is ongoing, and involves discussion with New Zealand, which requires modelling for such assessment more urgently than Australia. In this release, we are presenting proposals for the other two areas identified: Gradebook/Formative assessment, and Credentials.

1. Gradebook assessment

The SIF-AU data model currently incorporates two objects for gradebook assessment:

- GradingAssignment, representing both the assignment event and assignment form for generic or formative assessment
- GradingAssignmentScore, representing a generic assignment result or the result received by a student for formative assessment

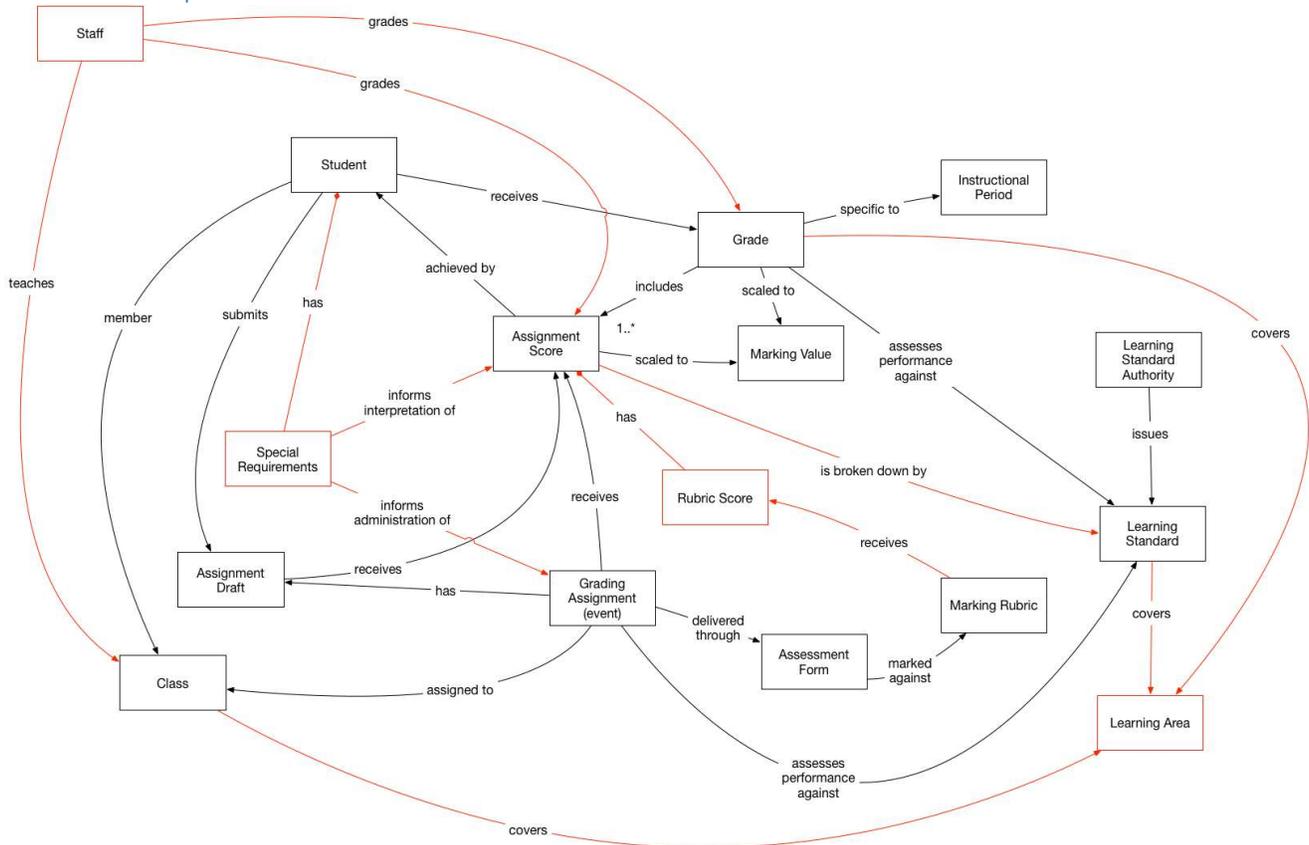
The data model has been enhanced to add the following objects:

- StudentGrade (re-factored from SIF-US Gradebook objects), representing the overall grade received for a subject by a student. Relative to the SIF-US object, the StudentGrade includes:
 - provision for an overall teacher judgement
 - optionally links to the staff member marking the student and providing the teacher judgement
 - the learning area for the subject graded
 - optional links to one or more GradingAssignmentScore objects, the scores of which have contributed to this grade
- MarkValueInfo (re-factored from SIF-US Gradebook objects), representing the interpretation of a StudentGrade mark or a GradingAssignmentScore mark for external consumers.
 - Relative to the SIF-US object, the MarkValueInfo object has been flattened, and it includes information on whether the given mark represents a passing grade.

The objects have been enhanced to address requirements captured in the workshops, as follows:

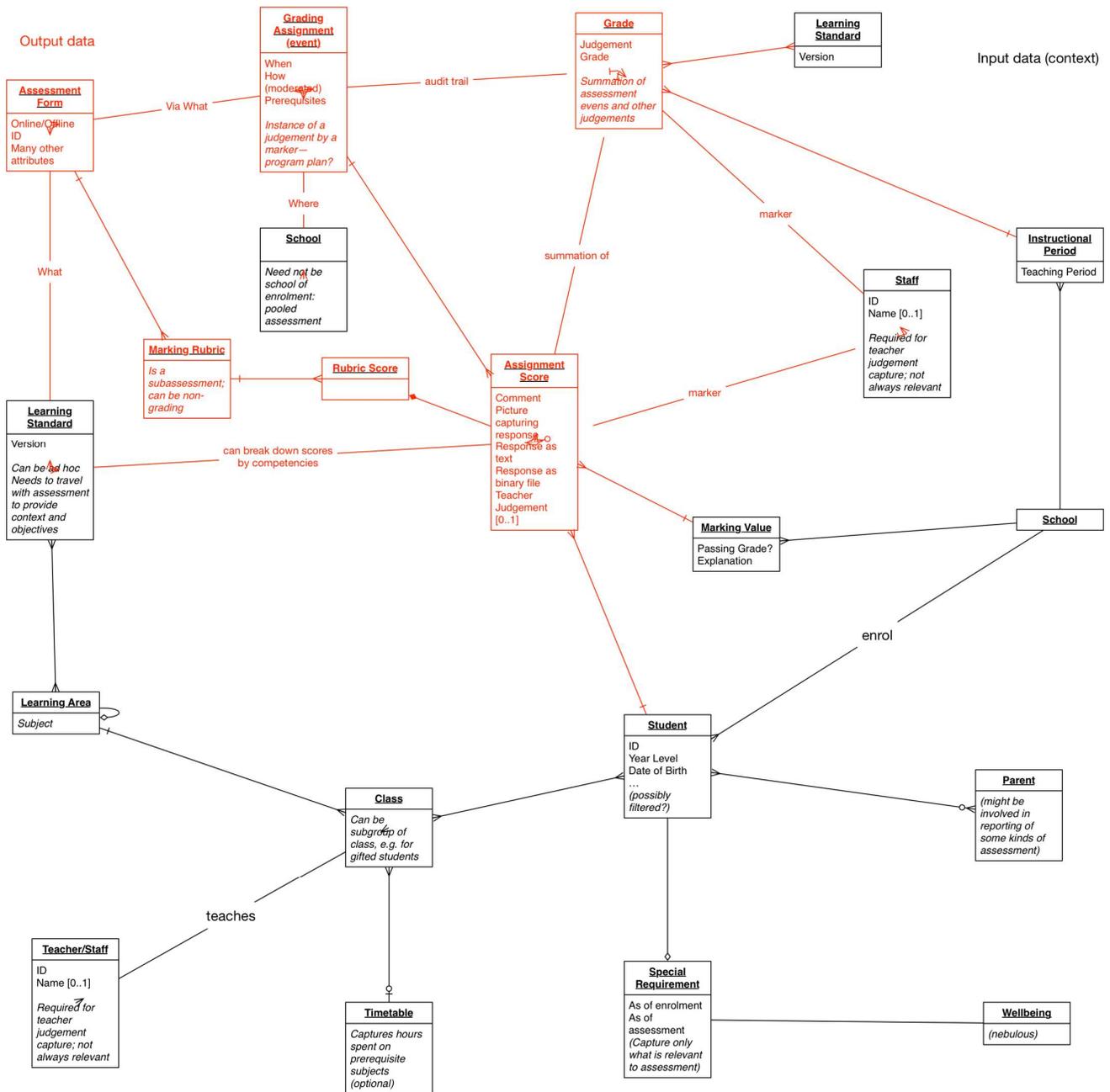
- GradingAssignment can be composed of other GradingAssignment objects recursively. This allows assignments to be described at a more granular level as required. GradingAssignment can potentially be used to describe a subtest or individual questions within the assessment.
- GradingAssignment has added attributes to convey the purpose of the assessment, and the level at which it is assessed.
- GradingAssignment optionally includes rubrics, providing scoring guides for marking the assignment.
- GradingAssignment optionally includes prerequisite conditions to be met, for the student to be eligible to undertake the assignment. Prerequisites can include attendance, other assessments, and recognition of prior learning.
- GradingAssignment optionally includes learning standards, indicating competencies or standards that the assignment assesses the student against. These learning standards may be part of a formal hierarchical curriculum, as already expressed in SIF-AU through LearningStandardItem; they may also be more informally expressed as hyperlinks or descriptive text, without necessarily belonging to a formal curriculum. (For example, they may be part of a local curriculum, or a student's individual learning plan.)
- GradingAssignmentScore can be used to convey an expected score for a student, rather than the score they actually received. This is useful in case a student has not provided a response to the assessment, but will still receive a default score for the assessment rather than a zero score.
- GradingAssignmentScore includes a date for when the assignment was marked.
- GradingAssignmentScore includes an indication of the iteration of an assignment submission that it is scoring. This permits a student to submit an assignment for marking multiple times.
- GradingAssignmentScore includes an optional link to the teacher who has marked the assignment.
- GradingAssignmentScore optionally includes a teacher judgement.
- GradingAssignmentScore optionally includes the original script being marked.
- GradingAssignmentScore optionally includes subscores corresponding to each of the rubrics in the assignment.
- GradingAssignmentScore optionally links to WellbeingCharacteristic, which may provide special circumstances for the student as context to interpreting their score.
- GradingAssignmentScore optionally links to a MarkValueInfo object, which provides context for interpreting the mark received.

1.1. Conceptual Model:



(Red objects are additions reflecting the 2017 workshop.)

- Note: Class refers to a group of students meeting for instructional purposes, and is equivalent to the SIF-US Section object. The corresponding SIF-AU TeachingGroup is denormalised, as it also contains references to students, staff, rooms and periods.
- Note: the arrows on this diagram do not imply that all links are mandatory. A Grading Assignment for example may not be assigned to a Class.



(Black objects refer to inputs to assessment, red refer to outputs of assessment.)

<i>Subject</i>	<i>relationship</i>	<i>Object</i>
Staff	Teaches	Class
Student	Is Member of	Class
Class	Studies	Learning Area
Grading Assignment	Assigned to	Class
Learning Standard	Covers	Learning Area
Learning Standard Authority	Issues	Learning Standard
Grading Assignment (event)	Assesses Performance Against	Learning Standard
Grading Assignment (event)	Delivered Through	Assessment Form (instrument)

<i>Subject</i>	<i>relationship</i>	<i>Object</i>
Grading Assignment (event)	Has	Assignment Submission
Student	Submits	Assignment Submission
Assignment Submission	Receives	Assignment Score
Grading Assignment (event)	Receives	(Expected) Assignment Score
Grading Assignment (event)	Receives	(Final) Assignment Score
Assessment Form	Marked Against	Marking Rubric
Marking Rubric	Receives	Rubric Score
Assignment Score	Consists of	Rubric Score
Assignment Score	Is Broken Down By	Learning Standard
Staff	Grades/Marks	Assignment Score
Student	Achieves	Assignment Score
Student	Has	Special Requirements
Special Requirements	Informs Interpretation Of	Assignment Score
Special Requirements	Informs Administration Of	Grading Assignment (event)
Grade	Includes	Assignment Score
Grade	Assesses Performance Against	Learning Standard
Grade	Covers	Learning Area
Grade	Specific To	Instructional Period (e.g. Term/Semester)
Staff	Grades	Grade
Student	Receives	Grade
Assignment Score	Scaled To	Marking Value
Grade	Scaled To	Marking Value
School	defines	MarkInfo

1.2. Logical Model

<i>Conceptual object</i>	<i>Logical realisation</i>
Assessment Form	GradingAssignment/DetailedDescriptionURL, GradingAssignment/DetailedDescriptionBinary <i>(current encoding is bound 1:1 to the grading assignment, which is intended as a lightweight encoding)</i>
Assignment Submission	GradingAssignmentScore/[DraftIteration != nil] <i>(SIF-AU is not currently proceeding with a separate Assignment Submission object, and is not incorporating the student script in the data model. Instead, SIF-AU uses multiple instances of GradingAssignmentScore, with the DraftIteration indicating which iteration of marking is represented.)</i>
Assignment Score	GradingAssignmentScore
Class	TeachingGroup
Grade	StudentGrade
Grading Assignment	GradingAssignment

Learning Area	StudentGrade/LearningArea, GradingAssignment/LearningStandardList/LearningArea
Learning Standard	GradingAssignment/LearningStandardList/LearningStandard
Learning Standard Authority	GradingAssignment/LearningStandardList/LearningStandard/ LearningStandardDescription/Curriculum
Marking Rubric	GradingAssignment/RubricList/Rubric
Marking Value	MarkValueInfo
Rubric Score	GradingAssignmentScore/SubscoreList/Subscore
Special Requirements	Personal Needs and Preferences (not modelled for Gradebook assessment)
Staff	StaffPersonal
Student	StudentPersonal
Term	TermInfo

1.3. Workflows

Formative Assessment within school:

Input:

- StudentPersonal
- StaffPersonal
- TeachingGroup
- GradingAssignment
 - Form
 - Prerequisite
 - Rubric

Output:

- GradingAssignmentScore
 - Student Response
 - Teacher Judgement
 - Grade
 - Subscores

Steps:

- Teacher assigns GradingAssignment to TeachingGroup
- Alt: Teacher assigns different GradingAssignments to different students within the TeachingGroup, based on the students' Personal Needs and Preferences and the properties of the GradingAssignment.
 - This selection process is treated as happening out of band, and is not reflected in attributes of GradingAssignment. (For secondary assessment, Personal Needs and Preferences are represented explicitly.)
- Optional: Student demonstrates that they satisfy the prerequisites for the GradingAssignment, in order for their attempt to be graded
- Student in TeachingGroup attempts GradingAssignment, by responding to GradingAssignment form
- Student in TeachingGroup submits GradingAssignment response
- Teacher grades GradingAssignment response, resulting in GradingAssignmentScore
 - Optional: where GradingAssignment rubrics are present, Teacher assigns subscores specific to the rubrics
- Teacher circulates GradingAssignmentScore (grade, judgement, subscores) to Student as feedback
- Teacher records GradingAssignmentScore in markbook for student
- Optional: GradingAssignmentScore incorporates GradingAssignment response

Formative Assessment within school, remedial use:

Input:

- StudentPersonal
- StaffPersonal
- TeachingGroup
- GradingAssignment
 - Form
 - Subassignments
 - Learning Standards

Output:

- GradingAssignmentScore
 - Student Submission
 - Teacher Judgement
 - Grade
 - Subscores
 - Learning Standard breakdown of score

Steps:

- Teacher assigns GradingAssignment to TeachingGroup
 - Related LearningStandards captured for GradingAssignment
 - Details of GradingAssignment components (e.g. items) captured as subassignments of the GradingAssignment
- Alt: Teacher assigns GradingAssignment to individual Student, outside context of TeachingGroup (e.g. remedially).
- Student attempts GradingAssignment, by responding to GradingAssignment form
- Student submits GradingAssignment response
- Teacher grades GradingAssignment response, resulting in GradingAssignmentScore
 - Scores of individual subassignments of the GradingAssignment captured as GradingAssignmentScores specific to those subassignments
 - Score breakdown is captured for individual Learning Standards
- Teacher circulates GradingAssignmentScore (grade, judgement, subscores) to Student as feedback
- Teacher uses Learning Standards breakdown of GradingAssignmentScore, and score breakdown by subassignment, to identify particular areas of weakness for student performance
- Teacher devises teaching plan using resources to reinforce learning for student around problem areas identified

Formative Assessment within school, multiple submissions:

Input:

- StudentPersonal
- StaffPersonal
- TeachingGroup
- GradingAssignment
 - Form

Output:

- GradingAssignmentScore
 - Student Response
 - Teacher Judgement
 - Grade
 - Subscores

Steps:

- Teacher assigns GradingAssignment to TeachingGroup
- Student in TeachingGroup attempts GradingAssignment, by responding to GradingAssignment form
- Repeat:
 - Student in TeachingGroup submits GradingAssignment draft response

- Teacher grades GradingAssignment response, resulting in GradingAssignmentScore
- Teacher circulates GradingAssignmentScore (grade, judgement, subscores) to Student as feedback
- Student in TeachingGroup submits GradingAssignment final response
- Teacher grades GradingAssignment response, resulting in GradingAssignmentScore
- Teacher circulates GradingAssignmentScore (grade, judgement, subscores) to Student as feedback
- Teacher records GradingAssignmentScore in markbook for student
- Optional: GradingAssignmentScore incorporates GradingAssignment response

Subject Assessment within school, grade:

Input:

- StudentPersonal
- StaffPersonal
- TeachingGroup
- GradingAssignmentScore
- TermInfo

Output:

- StudentGrade
 - Teacher Judgement
 - Mark

Steps:

- Teacher performs formative assessments of Student in TeachingGroup
- Teacher records GradingAssignmentScores in markbook for student
- Teacher assesses Student's overall performance in TeachingGroup during Term as a mark, based on performance evaluated in GradingAssignmentScore, and other sources
- Optional: Teacher makes teacher judgement of Student's overall performance in TeachingGroup during Term
- Teacher assigns StudentGrade to student
- Teacher records StudentGrade in markbook for student

Reporting of Assessment:

Input:

- GradingAssignmentScore
- StudentGrade
- TermInfo
- WellbeingCharacteristic

Steps:

- StudentGrades assigned to students for the term gathered from markbook
- Optional: GradingAssignmentScores assigned to students gathered from markbook, as supporting evidence for grades
 - GradingAssignmentScores do not contain details of subscores, breakdown by learning standard, breakdown by subassignments
- Optional: WellbeingCharacteristic provided for students where applicable to contextualise their performance
- StudentGrades and GradingAssignmentScores forwarded for reporting

Student Transfer:

Input:

- GradingAssignment

- Learning Standard
- PersonalNeedsAndPreferences
- GradingAssignmentScore
- StudentGrade
- TermInfo
- MarkValueInfo
- WellbeingCharacteristic

Steps:

- Optional: Degree of detail required for student transcript negotiated between sending and receiving school
 - An SMS will likely only need to process summary data
 - An LMS may need to process granular assessment data, though it may not end up storing it in the long term
- StudentGrades assigned to students for the term gathered from markbook
- MarkValueInfo objects created to accompany StudentGrades, providing interpretation of StudentGrade
- Optional: GradingAssignmentScores and GradingAssignments underlying StudentGrade gathered from markbook, as representative sample of work
 - Where applicable, MarkValueInfo objects created to accompany GradingAssignmentScores, providing interpretation of StudentGrade
 - Details of Learning Standards specific to GradingAssignments made explicit for external consumption, as proof of competency
- Optional: WellbeingCharacteristic provided for students where applicable (and conformant with privacy constraints) to contextualise their performance
- Optional: PersonalNeedsAndPreferences (derived from WellbeingCharacteristic) used to select appropriate GradingAssignment to administer to student
- StudentGrades, GradingAssignmentScores and GradingAssignments forwarded as part of student transcript

2. Draft Realisation of Gradebook assessment

Grading Assignment

Element/@Attribute	Char	Description	Type
GradingAssignment		This object provides information about a particular assignment, allows applications to synchronize each other's assignment tables, gathers the definition for a GradingAssignmentScore object, etc.	
@  RefId	M	A GUID that identifies an instance of this object.	RefIdType
TeachingGroupRefId	O	The GUID for the TeachingGroup object in which this assignment has been set.	IdRefType
StudentPersonalRefIdList	O	The GUIDs for individual that this assignment has been set for	List
StudentPersonalRefIdList/ StudentPersonalRefId	MR		IdRefType
SchoolInfoRefId	O	The Id (GUID) that uniquely identifies the School in which this assignment has been set.	IdRefType
GradingCategory	O	A particular grading category for the assignment, used to provide grouping and type information.	xs:normalizedString
Description	M	The text-based description of the assignment.	xs:normalizedString
PointsPossible	M	The points possible on the assignment.	xs:unsignedInt
CreateDate	O	Creation date of the assignment.	xs:date

Element/@Attribute	Char	Description	Type
DueDate	O	Date the assignment is due.	xs:date
Weight	O	The weight of the assignment.	xs:decimal
MaxAttemptsAllowed	O	How many attempts the student is allowed on the assignment (applicable particularly to online activities).	xs:integer
DetailedDescriptionURL	O	The location of the document that describes the assignment. If Type is PDF, this element will contain the Base64 encoding of the entire document. Preferred against DetailedDescriptionBinary for online assessment.	xs:anyURI
DetailedDescriptionBinary	O	The Base64 encoding of a document (e.g. PDF) describing the assignment.	xs:base64Binary
AssessmentType	O	Type of assessment (e.g. diagnostic vs paedagogical).	xs:token
LevelAssessed	O	Level at which assessment is aimed; may be year level.	xs:token
AssignmentPurpose	O	Purpose for assignment.	xs:normalizedString
SubAssignmentList	O	Assignments which this assignment is composed of.	AssignmentListType
RubricScoringGuide	O	Rubric Scoring information.	GenericRubricType
PrerequisiteList	O	Prerequisite conditions to be met for assessment.	PrerequisiteListType
LearningStandardList	O		LearningStandardListType

Element/@Attribute	Char	Description	Type
SIF_Metadata	O		SIF_MetadataType
SIF_ExtendedElements	O		SIF_ExtendedElementsType

Table 3.3.11-1: GradingAssignment

```

<GradingAssignment Ref"d="359D7510-1AD0-A9D7-A8C3-DAD0A8510"A2">
  <TeachingGroupRefId>D0A0A27A-D0A8-510A-D9D7-5101A8C3DA39</TeachingGroupRefId>
  <SchoolInfoRefId>11737EA4-301C-ADCA-75C8-7214A7C46BDB</SchoolInfoRefId>
  <GradingCategory>Classroom Test</GradingCategory>
  <Description>Pop Quiz</Description>
  <PointsPossible>100</PointsPossible>
  <CreateDate>2000-11-21</CreateDate>
  <DueDate>2000-11-25</DueDate>
  <Weight>1.0</Weight>

  <DetailedDescriptionURL>http://www.assignmentinfo.com/assignment1.pdf</DetailedDescriptionURL>
</GradingAssignment>

```

Grading AssignmentScore

Element/@Attribute	Char	Description	Type
GradingAssignmentScore		This object provides score information about a particular assignment.	
@ Key RefId	M	A GUID that identifies an instance of this object.	RefIdType
StudentPersonalRefId	O	The GUID for the student whose score this is.	IdRefType
StudentPersonalLocalId	M	The Local Id for the student whose score this is.	LocalIdType
TeachingGroupRefId	O	The GUID for the TeachingGroup object in which this assignment has been set.	IdRefType
SchoolInfoRefId	O	The Id (GUID) that uniquely identifies the School in which this assignment has been set.	IdRefType
GradingAssignmentRefId	M	The grading assignment for which this is a score.	IdRefType

Element/@Attribute	Char	Description	Type
StaffPersonalRefId	O	The staff member who marked the assignment, and was responsible for any associated teacher judgement.	IdRefType
DateGraded	O	Date the assignment was graded.	xs:date
ExpectedScore	O	If true, this is the expected or calculated score for the assignment. If false, this is the score the student received through attempting the assignment. The expected score can be used to substitute for the received score, where the received score is unavailable; e.g. the student has not done the assessment, but will receive a default mark rather than be penalised with a zero grade.	xs:boolean
ScorePoints	C	The score represented as points. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in. For online assignments, ScorePoints should be used to the exclusion of other scores.	xs:unsignedInt
ScorePercent	C	The score represented as a percent. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in.	xs:decimal
ScoreLetter	C	The score represented as a letter grade. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in.	xs:token
ScoreDescription	O	Text description of the score.	xs:normalizedString
SubscoreList	O	Subscores contributing to the total mark.	NAPSubscoreListType

Element/@Attribute	Char	Description	Type
TeacherJudgement	O	Teacher judgement associated with the score.	xs:string
MarkInfoRefId	O	Interpretation of Grade.	IdRefType
AssignmentScoreIteration	O	If this is a draft submission, or re-submission, iteration of the attempt.	xs:token
SIF_Metadata	O		SIF_MetadataType
SIF_ExtendedElements	O		SIF_ExtendedElementsType

Table 3.3.12-1: GradingAssignmentScore

```
<GradingAssignmentScore Ref"d="359D7510-1AD0-A9D7-A8C3-DAD0A8510"A2">
  <StudentPersonalRefId>A75A0010-1A8C-301D-02E3-A05B359D0A00</StudentPersonalRefId>
  <StudentPersonalLocalId>fred12</StudentPersonalLocalId>
  <TeachingGroupRefId>D0A0A27A-D0A8-510A-D9D7-5101A8C3DA39</TeachingGroupRefId>
  <SchoolInfoRefId>11737EA4-301C-ADCA-75C8-7214A7C46BDB</SchoolInfoRefId>
  <GradingAssignmentRefId>359D7510-1AD0-A9D7-A8C3-DAD0A85105D2</GradingAssignmentRefId>
  <ScorePoints>45</ScorePoints>
</GradingAssignmentScore>
```

MarkValueInfo

Element/@Attribute	Char	Description	Type
MarkValueInfo		This object defines the types of values allowed for a mark and the domain for each mark value. At least one of the Percentage, Numeric, Letter or Narrative nodes must be used to create a valid MarkValueInfo.	
 RefId	M	The Id (GUID) that uniquely identifies this MarkValueInfo entity.	RefIdType
SchoolInfoRefId	M	The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	IdRefType
YearLevels	O	The year levels that this MarkValueInfo applies to.	YearLevelsType
Name	M	The text name of the value list ("Letter Grades", "Letter Grades (+)-", "SU", "Pass/Fail",	xs:string

Element/@Attribute Char	Description	Type
	"Override Gra"es", "Citizenship Comment Co"es", etc.).	
PercentageMinimum	O The minimum percent value accepted for this mark.	xs:decimal
PercentageMaximum	O The maximum percent value accepted for this mark.	xs:decimal
PercentagePassingGrade	O The threshold for a mark to be considered passing.	xs:decimal
NumericPrecision	O Number of significant digits.	xs:unsignedInt
NumericScale	O Number of decimal places.	xs:unsignedInt
NumericLow	O Lowest Mark in the range (e.g., 98, 3.95).	xs:decimal
NumericHigh	O Highest Mark in the range (e.g., 100, 4.0).	xs:decimal
NumericPassingGrade	O The threshold for a mark to be considered passing.	xs:decimal
ValidLetterMarkList	C List of specific valid letter Marks.	ValidLetterMarkList
Narrative	M If present, indicates that a free-form text narrative is accepted.	xs:string
NarrativeMaximumSize	O An integer value representing the maximum number of Unicode characters for the narrative, the UTF-8 encoding of which may be longer.	xs:unsignedInt
SIF_Metadata	O	SIF_Metadata
SIF_ExtendedElements	O	SIF_ExtendedElements

Table 3.3.21-1: MarkValueInfo

```

<MarkValueInfo Ref"d="359D7510-1AD0-A9D7-A8C3-DAD0A8510"A2">
  <SchoolInfoRefId>A137D78A-E00B-C744-EF90-F2871CEB90A2</SchoolInfoRefId>
  <Name>Letter Grades</Name>
  <PercentageAccepted>>false</PercentageAccepted>
  <NumericAccepted>>false</NumericAccepted>
  <LetterAccepted>>true</LetterAccepted>
  <ValidLetterMarkList>
    <ValidLetterMark>
      <Code>A</Code>
      <NumericEquivalent>100</NumericEquivalent>
    </ValidLetterMark>
    <ValidLetterMark>
      <Code>B</Code>
      <NumericEquivalent>90</NumericEquivalent>
    </ValidLetterMark>
    <ValidLetterMark>
      <Code>C</Code>
      <NumericEquivalent>80</NumericEquivalent>
    </ValidLetterMark>
    <ValidLetterMark>
      <Code>D</Code>
      <NumericEquivalent>70</NumericEquivalent>
    </ValidLetterMark>
    <ValidLetterMark>
      <Code>F</Code>
      <NumericEquivalent>60</NumericEquivalent>
    </ValidLetterMark>
  </ValidLetterMarkList>
  <NarrativeAccepted>>false</NarrativeAccepted>
</MarkValueInfo>

```

StudentGrade

Element/@Attribute	Char	Description	Type
StudentGrade		StudentGrade is a grade in isolation, not linked to an assessment, section, or curriculum.	
 RefId	M	The Id (GUID) that uniquely identifies this object.	RefIdType
StudentPersonalRefId	M	The Id (GUID) that uniquely identifies the StudentPersonal object that this item refers to.	IdRefType
HomeGroup	O	Home group that the student belongs to.	xs:normalizedString
YearLevel	O	Year level of student.	YearLevelType

Element/@Attribute	Char	Description	Type
TeachingGroupShortName	O	Short free format label that describes the teaching group.	xs:normalizedString
TeachingGroupRefId	O	The Id (GUID) that uniquely identifies the Teaching Group in which this Grade was assigned.	IdRefType
StaffPersonalRefId	O	The main staff member who graded the student, and was responsible for any associated teacher judgement.	IdRefType
Markers	O	Any other staff members who were involved in the grading of the student or who were responsible for any associated teacher judgement/s.	StudentGradeMarkersList
Markers/Marker	MR		
Markers/Marker/StaffPersonalRefId	M		IdRefType
Markers/Marker/Role	O	The role the staff member played in grading the student	xs:token
SchoolInfoRefId	M	The Id (GUID) that uniquely identifies the school that these values apply to.	IdRefType
TermInfoRefId	O	Period over which grade is calculated. StudentGrade is intended to range over work done through a marking period; it is not intended for one-off pieces of formative assessment.	IdRefType
Description	O	The scope of the StudentGrade; e.g. subject matter. Should be used if no TeachingGroup is associated with the grade.	xs:normalizedString
LearningArea	O	Learning area against which the grade was given	ACStrand
LearningStandardList	O	We will now allow this in 3.4.3 to be either a GUID to LearningStandardItem,	LearningStandardListType

Element/@Attribute	Char	Description	Type
		or a URL to the National Curriculum. This can be a content description or a strand.	
GradingScoreList	O	Assignments that the student went through to achieve this summative assessment.	GradingScoreListType
Grade	O	Overall grade that the student has received.	GradeType
TeacherJudgement	O	The teacher judgement of the student's performance as captured in this object.	xs:string
SIF_Metadata	O		SIF_MetadataType
SIF_ExtendedElements	O		SIF_ExtendedElements

Table 3.3.51-1: StudentGrade

```

<StudentGrade Ref"d="359D7510-1AD0-A9D7-A8C3-DAD0A8510"A2">
  <StudentPersonalRefId>A137D78A-E00B-C744-EF90-F2871CEB90A2</StudentPersonalRefId>
  <SchoolInfoRefId>B237D78A-E00B-C744-EF90-F2871CEB91A2</SchoolInfoRefId>
  <Grade>
    <Percentage>79</Percentage>
    <Numeric>3.0</Numeric>
    <Letter>C</Letter>
    <Narrative>Johnny is only achieving average performance.</Narrative>
  </Grade>
</StudentGrade>

```