

# **DE Ed-Fi Suite v3.6.2, Data Standard v4.0: Grades**

July  
2025

# DE Ed-Fi Suite v3.6.2, Data Standard v4.0: Grades

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## Summary

This educational entity represents an overall score or assessment tied to a course over a period of time (i.e., the grading period). Student grades are usually a compilation of marks and other scores.

## Object Triggering Logic

Action	Business Rule(s)
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Post	<p>When a grade is in progress or posted to a Grading Task or Rubric that is mapped to an Ed-Fi Grade Type.</p> <ul style="list-style-type: none"> <li>Standards will report to Ed-Fi if they are contained in a Standard Group that is mapped in Resource Preferences on the Learning Standards resource.</li> <li>The Grading Task or Rubric must be mapped to a Grading Period in Resource Preferences on the Grading Periods resource to report a record for Grades.</li> <li>A Student Section Association record must exist in the Ed-Fi Identity Mapping table for the student/section combination prior to sending a Grades record.</li> <li>The Grading Period must overlap the Term the Grade is posted to for a Grades record to report. <ul style="list-style-type: none"> <li>The End Date of the Grading Period must be on or after the Term Start Date the Grade is posted to.</li> <li>The End Date of the Grading Period must be on or before the Term End Date the Grade is posted to.</li> </ul> </li> <li>If the Grade is aligned to more than one Grading Period that overlaps the Term, a Grades record will be reported for all eligible Grading Periods</li> <li>A record is only reported for Grades in the same School Year as the Ed-Fi Connection sending the record. <ul style="list-style-type: none"> <li>School Year dates are defined in School Year Setup. <ul style="list-style-type: none"> <li>If Start Date is NULL, 07/01/StartYear will be used.</li> <li>If End Date is NULL, 06/30/EndYear will be used.</li> </ul> </li> </ul> </li> <li>Do not report a record if the any of the following exclusions are present: <ul style="list-style-type: none"> <li>Enrollment State Exclude</li> <li>Enrollment Grade Level Exclude</li> <li>Calendar Exclude</li> <li>School Exclude</li> <li>Course State Exclude</li> <li>Course State Code is NULL</li> </ul> </li> </ul>
Delete /Post  Put	<p>A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.</p> <ul style="list-style-type: none"> <li>When any of the following information is changed on Grades: <ul style="list-style-type: none"> <li>Grade ID (New Grade)</li> <li>Score</li> </ul> </li> <li>Changes to Resource Preferences mappings <b>do NOT trigger</b>. A manual resync must be performed on the resource if mappings are changed.</li> </ul>

Delete	<ul style="list-style-type: none"><li>• When the Score is deleted.</li><li>• When the Score is no longer associated with a mapped Grading Task or Rubric.</li><li>• When the Student Section Association or Grading Periods record references no longer exist.</li><li>• When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.</li></ul>
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## Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Grading Periods
- Learning Standards
- Student Section Associations

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## Dependent Resources (Downstream)

The following resources are dependent on this resource (must be sent after this resource):

- N/A

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## Error Log

The following are potential Tier 1 (Ed-Fi API generated) or custom (Campus generated) errors you may receive when posting, updating, or deleting this resource. Please keep in mind that the "Error Message" below may not match your exact error message.

Error Message	Possible Causes / How to Fix

## Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

- The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
1	<b>gradeTypeDescriptor</b> ( <i>string</i> )	<p><i>The type of grade reported (e.g., exam, final, grading period).</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for the Grading Task.</p>	M	Grading & Standards	GradingScore.taskID	✓
2	<b>gradingPeriodReference</b> ( <i>reference</i> )	<p><i>A reference to the Grading Periods resource associated with the Grade being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Grading Periods resource.</p>	M	N/A	N/A	✓
3	<b>studentSectionAssociationReference</b> ( <i>reference</i> )	<p><i>A reference to the Student Section Associations resource associated with the Grade being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Student Section Associations resource.</p>	M	N/A	N/A	✓

4	currentGradeIndicator ( <i>boolean</i> )	<p><i>An indicator that the posted grade is an interim grade for the grading period and not the final grade.</i></p> <hr/> <ul style="list-style-type: none"> <li>• Reports <b>True</b> if the grade being reported is In Progress.</li> <li>• Reports <b>False</b> if the grade being reported is Posted.</li> </ul>	M	N/A	N/A	✖
5	learningStandardGrades ( <i>array</i> )	<p><i>An unordered collection of gradeLearningStandardGrades. A collection of learning standards associated with the grade.</i></p> <hr/> <p>Reports the following data elements in an array only for Scores associated with Learning Standards:</p> <ul style="list-style-type: none"> <li>• letterGradeEarned <ul style="list-style-type: none"> <li>◦ Reports the <b>Score</b> if it is <b>NOT</b> a number.</li> </ul> </li> <li>• numericGradeEarned <ul style="list-style-type: none"> <li>◦ Reports the <b>Score</b> if it is a number.</li> </ul> </li> <li>• learningStandardReference <ul style="list-style-type: none"> <li>◦ Reports the fields that are part of the Natural Key for the Learning Standards resource.</li> </ul> </li> <li>• The following data elements do not report: <ul style="list-style-type: none"> <li>◦ diagnosticStatement</li> <li>◦ performanceBaseConversionDescriptor</li> </ul> </li> </ul>	O	Grades	GradingScore .score	✖

6	letterGradeEarned ( <i>string</i> )	<i>A final or interim (grading period) indicator of student performance in a class as submitted by the instructor.</i> <hr/> Reports the <b>Grade</b> if it is <b>NOT</b> a number.	C	Grades	GradingScore .score	✓
7	numericGradeEarned ( <i>number</i> )	<i>A final or interim (grading period) indicator of student performance in a class as submitted by the instructor.</i> <hr/> Reports the <b>Grade</b> if it is a number.	C	Grades	GradingScore .score	✓
8	currentGradeAsOfDate	This is optional, does not report.	O	N/A	N/A	N/A
9	diagnosticStatement	This is optional, does not report.	O	N/A	N/A	N/A
10	learningStandardGrades	This is optional, does not report.	O	N/A	N/A	N/A
11	performanceBaseConversionDescriptor	This is optional, does not report.	O	N/A	N/A	N/A

## Appendix