

# Ed-Fi 3.x Grade Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Status

Ready for v3 certification.

## Description

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.

## Grade Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/e7006848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Grade559>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/grades>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentGrade+%3E+Grade+Scenarios>

## Natural Key

- BeginDate
- GradeTypeDescriptor
- GradingPeriodDescriptor
- GradingPeriodSchoolYear
- GradingPeriodSequence
- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName
- StudentUniqueld

## Used By

- ReportCard.Grade (as optional collection)

## Mapping

Parent	Properties	Type	Required	Table	Field	Other	Code
\	diagnosticStatement	String	Optional				
\	gradingPeriodReference	GradingPeriodReference	Identity				
gradingPeriodReference	gradingPeriodDescriptor	Descriptor	<b>Identity</b>	GRP	GRP.C# AS GradingPeriodDescriptor		GetEdFiCodeValue(GradingPeriodDescriptor, "GRP", "C1", rowGRD!GradingPeriodDescriptor)

gradingPeriodReference	periodSequence	Integer	Identity			1 - 12	GetGradingPeriodSequence(s("SEQ"))  see function below
gradingPeriodReference	schoolYear	Integer	Identity			Aeries Current School Year + 1	GetNullableInteger(s("SchoolYear"))
gradingPeriodReference	schoolId	Integer	Identity	GRD	GRD.SC AS SchoolID		GetNullableInteger(s("SC")) For Current School (not District)
\	letterGradeEarned	String	Required	GRP	GRD.M# AS CurrentMark		if IsNumeric(rowGRD!CurrentMark) = false rowGRD!CurrentMark
\	numericGradeEarned	String	Required	GRP	GRD.M# AS CurrentMark		if IsNumeric(rowGRD!CurrentMark) = true rowGRD!CurrentMark
\	performanceBaseConversionDescriptor	Descriptor	Optional				
\	studentSectionAssociationReference	StudentSectionAssociationReference	Identity				
studentSectionAssociationReference	beginDate	Date	Identity	CAR	CAR.DS AS StartDate		GetNullableDate(s("StartDate"))
studentSectionAssociationReference	localCourseCode	String	Identity	GRD	GRD.CN		GetString(s("CN"))
studentSectionAssociationReference	schoolId	Integer	Identity	GRD	GRD.SC		GetNullableInteger(s("SC"))
studentSectionAssociationReference	schoolYear	Integer	Identity	CAR	CAR.DS AS StartDate		GetNullableInteger(s("SchoolYear"))
studentSectionAssociationReference	studentUniqueld	String	Identity	STU	STU.ID		GetString(s("ID"))
studentSectionAssociationReference	sessionName	String	Identity	MST	MST.SM		GetTermDescriptor(rowGRD!SC, rowGRD!SM)  see function below
studentSectionAssociationReference	sectionIdentifier	String	Identity	MST	MST.SC & MST.SE		GetUniqueSectionCode(s("SC"), s("SE")) school & "-" & section  see function below
\	gradeTypeDescriptor	Descriptor	Identity			Hard code to "Grading Period"	GetV3Descriptor("GradeTypeDescriptor", "Grading Period")
\	learningStandardGrades	learningStandardGrade[]	Optional				
learningStandardGrades[]	performanceBaseConversionDescriptor	Descriptor	Optional				
learningStandardGrades[]	diagnosticStatement	String	Optional				
learningStandardGrades[]	letterGradeEarned	String	Optional				
learningStandardGrades[]	numericGradeEarned	Integer	Optional				
learningStandardGrades[]	learningStandardReference	learningStandardReference	Optional				

learningStandardReference	learningStandardId	String	Optional				
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Code

```

        Public Shared Function GetGradingPeriodSequence(ByVal sequence
As String) As Integer?

            Dim periodSequence As Integer? = Nothing

            If Not String.IsNullOrEmpty(sequence) Then

                Select Case sequence.ToUpper
                    Case "F"
                        periodSequence = 1

                    Case "S"
                        periodSequence = 2

                    Case "Y"
                        periodSequence = 3

                    Case Else
                        If IsNumeric(sequence)
                            periodSequence
Then
                                = CType(sequence, Integer)
                        End If

                End Select

            End If

            return periodSequence

        End Function

    End Class

    Public Shared Function GetUniqueSectionCode(ByVal school As String,
ByVal section As String) As String

        Return school & "-" & section

    End Function

```

```

[
  {
    "id": "string",
    "gradeTypeDescriptor": "string",
    "gradingPeriodReference": {
      "gradingPeriodDescriptor": "string",
      "periodSequence": 0,
      "schoolId": 0,
      "schoolYear": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "studentSectionAssociationReference": {
      "beginDate": "2020-12-17",
      "localCourseCode": "string",
      "schoolId": 0,
      "schoolYear": 0,
      "sectionIdentifier": "string",
      "sessionName": "string",
      "studentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "diagnosticStatement": "string",
    "learningStandardGrades": [
      {
        "performanceBaseConversionDescriptor": "string",
        "diagnosticStatement": "string",
        "letterGradeEarned": "string",
        "numericGradeEarned": 0,
        "learningStandardReference": {
          "learningStandardId": "string",
          "link": {
            "rel": "string",
            "href": "string"
          }
        }
      }
    ],
    "letterGradeEarned": "string",
    "numericGradeEarned": 0,
    "performanceBaseConversionDescriptor": "string",
    "_etag": "string"
  }
]

```

