

# Unifying Data Model - v2.0 Handbook

The Ed-Fi Unifying Data Model Handbook is a searchable reference that includes definitions for every entity and element in the Ed-Fi Data Model. The UDM Handbook complements the visual UDM diagrams by providing detailed type specifications, cardinality, usage, enumeration lists, an XSD (normative) and SQL (non-normative) expression, and other information about the elements and entities that make up the Ed-Fi Data Model.

## Link

The following link will take you to the **Unifying Data Model Handbook**:

[Ed-Fi Unifying Data Model Handbook](#)

The screenshot shows the Ed-Fi Data Model Handbook interface for the 'Grade' entity. The left sidebar contains a search bar and a list of entity types. The main content area displays the following information:

- Grade**
- Ed-Fi ID: 559
- Entity Type: Domain Entity
- Definition**  
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.
- References**

Property	Datatype	Identity	Definition
DiagnosticStatement	SharedStringEntityProperty	No	A statement provided by the teacher that provides information in addition to the grade or assessment score.
GradeType	EnumerationEntityProperty	Yes	The type of grade reported (e.g., Exam, Final, Grading Period).
GradingPeriod	ReferenceEntityProperty	Yes	Identifies the grading period for the Grade.
LetterGradeEarned	SharedStringEntityProperty	No	A final or interim (grading period) indicator of student performance in a class as submitted by the instructor.
NumericalGradeEarned	SharedDecimalEntityProperty	No	A final or interim (grading period) indicator of student performance in a class as submitted by the instructor.
PerformanceBaseConversion	EnumerationEntityProperty	No	A conversion of the level to a standard set of performance levels.
StudentSectionAssociation	ReferenceEntityProperty	Yes	Relates the student and Section associated with the Grade.
- Used By**
  - ReportCard.Grade (as optional collection)
- XSD**

```
<xs:complexType base="Grade">
  <xs:annotation base="Grade">
    <xs:documentation>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.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="DiagnosticStatement" type="SharedStringEntityProperty" minOccurs="0" maxOccurs="1" />
    <xs:element name="GradeType" type="EnumerationEntityProperty" minOccurs="1" maxOccurs="1" />
    <xs:element name="GradingPeriod" type="ReferenceEntityProperty" minOccurs="1" maxOccurs="1" />
    <xs:element name="LetterGradeEarned" type="SharedStringEntityProperty" minOccurs="0" maxOccurs="1" />
    <xs:element name="NumericalGradeEarned" type="SharedDecimalEntityProperty" minOccurs="0" maxOccurs="1" />
    <xs:element name="PerformanceBaseConversion" type="EnumerationEntityProperty" minOccurs="0" maxOccurs="1" />
    <xs:element name="StudentSectionAssociation" type="ReferenceEntityProperty" minOccurs="0" maxOccurs="1" />
  </xs:sequence>
</xs:complexType>
```