

Nebraska Student and Staff Record System  
<http://www.education.ne.gov/nssrs>

# **ASSESSMENT**

## **Template Instruction Manual**

Version 5.0.0 – April 21, 2010

**Student Performance** [Assessment Response]

# **2010-2011**

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## **GENERAL INSTRUCTIONS**

This instruction manual describes the data elements being collected by the Nebraska Student and Staff Record System (NSSRS) via the Assessment Response template in support of Nebraska's School-based Teacher-Led Assessment Reporting System (STARS). Valid values and data validation rules that can be performed prior to data submission are listed where appropriate. Separate NSSRS validation reports will be available for assessment templates, some of which depend on data collected via the "State of the Schools Report" collection within the Consolidated Data Collection (CDC) on the NDE Portal.

The detailed NSSRS Data Source Templates (i.e. file layout specifications) for all NSSRS templates can be downloaded from the "NSSRS Secured Information web site", which is accessible via the NDE Portal (<http://portal.education.ne.gov>). The "NSSRS Desktop Database" is also available for download from this web site. Contact the NDE Helpdesk ([nde.helpdesk@nebraska.gov](mailto:nde.helpdesk@nebraska.gov) or 888-285-0556) for additional information regarding the NSSRS Secured Information web site and the NSSRS Desktop Database.

The following table describes the transition from STARS to Nebraska State Accountability (NeSA) state tests.

<b>Assessment and Reporting Schedule 2008-2012</b>		
<b>School Year</b>	<b>Assessment</b>	<b>Grade Levels</b>
2008-2009	STARS Reading	3-8, and High School
	STARS Mathematics	3-8, and High School
	STARS Science	4 or 5, 8 and 11
	NeSA Writing	4, 8, and 11
	<b>AYP</b> STARS Reading, STARS Mathematics, NeSA Writing (4, 8)	
	<b>Pilot</b> NeSA Reading	
2009-2010	STARS Mathematics	3-8, and High School
	STARS Science	4 or 5, 8, and 11
	NeSA Reading	3-8, and High School
	NeSA Writing	4, 8, and 11
	<b>AYP</b> NeSA Reading, STARS Mathematics, NeSA Writing (4, 8)	
	<b>Pilot</b> NeSA Mathematics	
2010-2011	STARS Science	4 or 5, 8, and 11
	NeSA Reading	3-8, and High School
	NeSA Mathematics	3-8, and High School
	NeSA Writing	4, 8, and 11
	<b>AYP</b> NeSA Reading, NeSA Mathematics, NeSA Writing (4, 8)	
	<b>Pilot</b> NeSA State Science	Three Grades
2011-2012	NeSA Reading	3-8, and High School
	NeSA Mathematics	3-8, and High School
	NeSA Science	Three Grades
	NeSA Writing	4, 8, and 11
	<b>AYP</b> NeSA Reading, NeSA Mathematics, NeSA Writing (4, 8)	

Please visit the NDE Standards, Assessment and Accountability web site (<http://www.education.ne.gov/assessment>) for additional information.

**Scope**

<b>Contents</b>	<b>Template Name</b>	<b>One record per:</b>
Student Performance	Assessment Response	Student for each Standard

All public districts submit the Student Performance [Assessment Response] template.

**Conventions**

**File Names**

<b>Template</b>	<b>File Name</b>
Assessment Response	##-####_assessment_resp_YYYYMMDDHHMM.xxx

<b>Where:</b>	<b>Represents:</b>
##-####	Your NDE-assigned district code
YYYYMMDDHHMM	Date and time stamp
.xxx	One of the following: .tab Tab delimited .csv Comma delimited (comma-separated values) .txt Fixed Width

**Data Element Names**

The following syntax is used throughout this document when referencing data elements.

Format: \* NDE Field Name [Template Name:Field Name(Field Number)]

Where:

- An asterisk (\*) indicates the data element is a key field. A value must be supplied in all key fields for each record or the data loading process will reject the record.
- **NDE Field Name** represents the name of the data element commonly used by the Nebraska Department of Education (NDE).
- **Template Name** indicates the formal name of the template.
- **Field Name** indicates the formal name of the field within the specified Template Name.
- **Field Number** indicates the position of the field within the specified Template Name.

Example: \* County District Number [Assessment Response:District Code (1)] indicates a key field referenced at NDE as "County District Number" that is the first field on the Assessment Response template with a field name of "District Code."

**School Year**

June 30 is used throughout NSSRS as the logical representation of a school year. As with all dates in NSSRS, it must be in ISO format (YYYY-MM-DD). Therefore, since this document applies to the "2010-2011" school year, all template fields that are to be populated with a logical school year will simply read: Provide the literal "2011-06-30".

# ASSESSMENT RESPONSE

**STUDENT PERFORMANCE [ASSESSMENT RESPONSE]**

The Assessment Response template captures individual student results for each standard, as represented by the combination of Standards/Subject/Grade.

**Nonpublic systems:** Do not submit the Assessment Response template.

A Student template must first be submitted for each student appearing in an Assessment Response template or the data loading process will reject the record.

**\* County District Number [Assessment Reponse:District Code (1)]**

This is the number assigned to your school district. The number is based on the county the district headquarters is located in and an assigned district number. You have used this number in reporting before NSSRS, it was preprinted on your forms in the past. This value is used in every template. This is a key field; a value must be supplied for each record or the data loading process will reject the record. The County District Number can be obtained from the Education Directory Search (<http://educdirsrc.education.ne.gov>).

**\* Standards [Assessment Reponse:Test Description (2)]**

Provide one of the following text values. This is a key field; a value must be supplied for each record or the data loading process will reject the record.

<b>Standards</b>	<b>Explanation</b>
STARS	Results on state or local standards
STARS Alternate	Results on Special Education Alternate Assessments

**\* School Year [Assessment Response:Assessment School Year Date (3)]**

Provide the literal "2011-06-30". This is a key field; a value must be supplied for each record or the data loading process will reject the record.

**\* Subject/Grade [Assessment Response:Item Description (4)]**

Provide one of the following text values corresponding to the Assessment being reported. This is a key field; a value must be supplied for each record or the data loading process will reject the record. Please note this field is case-sensitive and the valid codes below each include one blank space between the subject (e.g. Science) and the grade (e.g. 04).

<b>Standards = "STARS"</b>	
<b>Subject/Grade</b>	<b>Explanation</b>
Science 04	Districts must report Science performance at grades 4 or 5, 8, and 11. The selection of grade 4 or grade 5 is specified in the "State of the Schools Report" collection within the Consolidated Data Collection (CDC) on the NDE Portal.
Science 05	
Science 08	
Science 11	
Science 03	Some districts with local Science standards will report Science performance at grades other than 4 or 5, 8, and 11. The selection of grades to report is specified in the "State of the Schools Report" collection within the Consolidated Data Collection (CDC) on the NDE Portal.
Science 06	
Science 07	
Science 09	
Science 10	
Science 12	

<b>Standards = "STARS Alternate"</b>	
Alternate standards are appropriate only for those Special Education students (typically 1% or less) who are the most severely handicapped and who are assessed on the alternate assessment standards.	
<b>Subject/Grade</b>	<b>Explanation</b>
Science 04	Districts must report Science performance at grades 4 or 5, 8, and 11. The selection of grade 4 or grade 5 is specified in the "State of the Schools Report" collection within the Consolidated Data Collection (CDC) on the NDE Portal.
Science 05	
Science 08	
Science 11	
Science 03	Some districts with local Science standards will report on alternate Science standards at grades other than 4 or 5, 8, and 11. The grades reported should be the same as the ones reported for "STARS" standards. The selection of grades to report is specified in the "State of the Schools Report" collection within the Consolidated Data Collection (CDC) on the NDE Portal.
Science 06	
Science 07	
Science 09	
Science 10	
Science 12	

**Test Date [Assessment Response:Test Date (5)]**

Provide the literal "2011-06-30". This is a mandatory field; a value must be supplied for each record or the data loading process will reject the record.

**\* NDE Student ID [Assessment Response:Student ID (6)]**

Provide the 10 digit Nebraska Department of Education Student Identifier. This is a key field; a value must be supplied for each record or the data loading process will reject the record. This ID is validated against the Nebraska Uniq-ID system during the data load process.

**\* Standard Code [Assessment Response:Item Response Description (7)]**

Provide the code value corresponding to the standard being measured for a particular Assessment. This is a key field; a value must be supplied for each record or the data loading process will reject the record.

<b>Standards</b>	<b>For:</b>	<b>See:</b>
STARS	State Standards (full-slate)	Appendix B - State Standards (full-slate)
	STAR State Standards	Appendix C - STAR State Standards
	Local Standards (full-slate)	Standards as provided to NDE Curriculum and Instruction
	Local STAR Standards	Standards as provided to NDE Curriculum and Instruction
	State Grade Level Expectations	Appendix E - State Grade Level Expectations
	Local Grade Level Expectations	Standards as provided to NDE Curriculum and Instruction
STARS Alternate		Appendix D – STARS Alternate Standards

**Performance Level Code [Assessment Response:Achievement Level (13)]**

Provide the code value corresponding to the student’s performance on the standard being measured. This code is used in determining the average performance level on standards of each student for display on the State of the Schools Report. A code of “N” (Not Assessed) indicates the student was not assessed while enrolled at the time of the assessment. A code of “M” (Moved) indicates the student moved into the district after the assessment or moved out before the assessment.

<b>Code</b>	<b>Performance Level</b>
4	Advanced
3	Proficient
2	Progressing
1	Beginning
N	Not Assessed
M	Moved

Or

<b>Code</b>	<b>Performance Level</b>
9	Met
8	Not Met
N	Not Assessed
M	Moved

## Appendix A – Change Summary

### Version 5.0.0

April 21, 2010

1. Updated date references for 2010-2011.
2. The Assessment Fact template no longer collected.
3. 2010-2011 Mathematics performance will be determined by performance on the state test (NeSA-M). Therefore, references to Mathematics removed from Subject/Grade [Assessment Fact:Item Description (4)].
4. Mathematics standards removed from Appendix B, Appendix C, and Appendix D.
5. Appendix E removed because Mathematics grade level expectations no longer required.

### Version 4.0.0

July 27, 2009

1. "Assessment and Reporting Schedule 2008-2012" table added to the Scope section to summarize the transition from STARS to Nebraska State Accountability (NeSA) state tests.
2. 2009-2010 Reading performance will be determined by performance on the state test (NeSA-R). Therefore, references to Reading removed from the following:
  - a. Subject/Grade [Assessment Fact:Item Description (4)]
  - b. Subject/Grade [Assessment Response:Item Description (4)]
3. Indicated Test Date [Assessment Fact:Test Date (5)] is a mandatory field instead of a key field.
4. Indicated Test Date [Assessment Response:Test Date (5)] is a mandatory field instead of a key field.
5. Reading standards removed from Appendix B, Appendix C and Appendix D.
6. Reading grade level expectations removed from Appendix E.

### Version 3.0.1

February 27, 2009

1. Regenerated Table of Contents to ensure School Number [Assessment Fact:Location (7)] was listed.
2. Updated URL for NDE Standards, Assessment and Accountability web site to <http://www.education.ne.gov/assessment>.

### Version 3.0.0

July 29, 2008

1. Updated for 2008-2009 school year.
2. All key fields noted with an asterisk.
3. Assessment Status [Assessment Fact:Assessment Status (15)]
  - a. Added
    - i. "0" (Not Applicable)
  - b. Removed
    - i. "1" (Assessed)
    - ii. "2" (Not Assessed – Other)
4. Testing Modification [Assessment Fact:Testing Modification (34)]
  - a. Emphasis added that codes "1" (Yes) and "3" (Out of Grade Level) are not appropriate when reporting performance for "STARS Alternate" standards.
5. School Number [Assessment Response:Location Code (12)] will no longer be collected.

6. Added the following standards inadvertently omitted from Appendix B – State Standards (full-slate):
  - a. Reading 04: NE.4.1.1, NE.4.1.2, NE.4.1.5, NE.4.3.1, NE.4.3.2, and NE.4.4.1.
  - b. Reading 08: NE.8.1.3, NE.8.1.6, NE.8.1.7, NE.8.3.1, and NE.8.4.1.
  - c. Reading 11: NE.12.1.3, NE.12.1.4, NE.12.1.8, and NE.12.3.1.
7. Added “Conventions” section, which includes file and data element naming conventions.

### **Version 2.0.0**

October 29, 2007

1. Updated for 2007-2008 school year.
2. Removed Standard [Assessment Item Response (2140)] template. The Department will load this template with data from previous years and/or standards provided to NDE Curriculum and Instruction.
3. Added references to assessment-related data collected via the Consolidated Data Collection (CDC) system on the NDE Portal.
4. The Assessment Response template is now referred to as Student Performance [Assessment Response (2190)]. “Student Achievement” was used in prior versions.
5. Assessment Response: Achievement Level (13) is now referred to as Performance Level Code [Assessment Response: Achievement Level (13)]. “Achievement Level Code” was used in prior versions.
6. Appendix B – State Standards (full-slate).
  - a. Added Science standards
  - b. Removed the following standards not reported beginning in 2006-2007:
    - i. Reading 04, NE.4.3.1
    - ii. Reading 04, NE.4.3.2
    - iii. Reading 04, NE.4.4.1
    - iv. Reading 08, NE.8.4.1
    - v. Reading 11, NE.12.2.1
7. Added Science standards to Appendix C – STAR State Standards.
8. Added Science standards to Appendix D – STARS Alternate Standards.
9. Added Appendix E – State Grade Level Expectations. Please note that all have a “NE.” prefix.
10. “By the end of \_\_\_ grade,” removed from all Standard Descriptions in all Appendices.

### **Version 1.1.3**

February 26, 2007

1. Changed text for STARS Alternate Standard NE.R.11.3 in Appendix D.

### **Version 1.1.2**

January 8, 2007

1. Removed code (added in version 1.1.1 to indicate “No – New Immigrant”) for District Full Academic Year Indicator [Assessment Fact: Assessment Accountable District (42)] and School Full Academic Year Indicator [Assessment Fact: Assessment Accountable School (47)].
2. Added Standard Code “NE.8.3.2” for Subject/Grade “Reading 08” in Appendix B - State Standards (full-slate) as it was omitted in error.

**Version 1.1.1**

December 22, 2006

1. Valid codes for Assessment Status [Assessment Fact:Assessment Status (15)] changed to numbers instead of text.
2. Added code for District Full Academic Year Indicator [Assessment Fact:Assessment Accountable District (42)] and School Full Academic Year Indicator [Assessment Fact:Assessment Accountable School (47)] added to indicate "No – New Immigrant".
3. Added code for Achievement Level Code [Assessment Response: Achievement Level (13)] to indicate student was not assessed because the student moved.
4. "Explanation of Use" column added to Testing Modification [Assessment Fact:Testing Modification (34)].
5. "Explanation of Use" column added to Testing Accommodation [Assessment Fact:Testing Accommodation (43)].
6. All data elements that are part of the key for that template record identified.
7. Standard Code [Assessment Item Response:Item Response Description (5) explanation now includes note indicating that all State Standards (full-slate) and State STAR standards begin with the text "NE." but districts reporting against local standards are not required to prefix their Standard Codes with any text.
8. Change Summary moved to an appendix. All appendices page number are now continuous.

**Version 1.1.0**

December 4, 2006 (NSSRS Pilot Districts only)

1. Testing Modification [Assessment Fact:Testing Modification (34)] explanation changed.
2. Testing Accommodation [Assessment Fact:Testing Accommodation (43)] explanation changed.
3. District Full Academic Year Indicator [Assessment Fact:Assessment Accountable District (42)] explanation changed – reference to immigrant status removed.
4. School Full Academic Year Indicator [Assessment Fact:Assessment Accountable School (47)] explanation changed – reference to immigrant status removed.

**Version 1.0.3**

November 27, 2006 (NSSRS Pilot Districts only)

1. The following changes were made to indicate that NDE will load Assessment Item Response templates for state-approved local standards for all districts as reported during the 2005-2006 school year:
2. Scope section.
3. Standard [Assessment Item Response] introduction.
4. Standard Code [Assessment Response:Item Response Description (7)].
5. Overall introduction rewritten.
6. All references to Assessment [Assessment Item Response:Test Description (2)] changed to Standards [Assessment Item Response:Test Description (2)].
7. All references to Assessment [Assessment Fact:Test Description (2)] changed to Standards [Assessment Fact:Test Description(2)].
8. All references to Assessment [Assessment Response:Test Description (2)] changed to Standards [Assessment Response:Test Description (2)].
9. The explanation in all Subject/Grade grids describing Mathematics and Reading for grades 9, 10 and 12 updated.
10. Modified criteria for Testing Accommodation [Assessment Fact:Testing Accommodation (43)] to "...if the student received accommodations on a majority of the assessments."

11. Modified instruction text for School Number [Assessment Fact:Location (7)] and School Number [Assessment Response:Location Code (12)].
12. All Standard Code values prefixed with "NE." in Appendix B - State Standards (full-slate) and Appendix C - STAR State Standards.

**Version 1.0.2**

November 21, 2006 (NSSRS Pilot Districts only)

1. Sequence of items within overview chart located in the SCOPE section reordered.
2. References to School Year Date [Assessment Response:School Year Date (11)] removed as this field is no longer required and should be left blank. The load plan will control the value within the target table using the Test Date [Assessment Response:Test Date (5)].
3. Details regarding Adequate Yearly Progress (AYP) calculation included for Achievement Level Code [Assessment Response:Achievement Level (13)].
4. References to District Accountable Indicator [Assessment Fact:Assessment Accountable District (42)] corrected to denote the correct field number and name changed to District Full Academic Year Indicator [Assessment Fact:Assessment Accountable District (42)].
5. References to School Accountable Indicator [Assessment Fact:Assessment Accountable School (47)] changed to School Full Academic Year Indicator [Assessment Fact:Assessment Accountable School (47)].
6. References to Standard Group Code [Assessment Item Response:Item Response Group (6)] removed as this field is no longer required and should be left blank.
7. Item Response Type [Assessment Item Response:Item Response Type (8)] removed as this field is no longer required and should be left blank.
8. References to Standard Group Description [Assessment Item Response:Item Response Group Long (25)] removed as this field is no longer required and should be left blank.
9. References to State Standard Code [Assessment Item Response:State Standard Code (27)] removed as this field is no longer required and should be left blank.
10. References to State Standard Description [Assessment Item Response:State Standard Desc (28)] removed as this field is no longer required and should be left blank.
11. Assessment Status [Assessment Fact:Assessment Status (15)] updated to remove "or 75% of the assessments" from the criteria for "Assessed".

**Version 1.0.1**

August 22, 2006 (NSSRS Pilot Districts only)

1. Instructions for the Assessment Achieved Detail template removed. NDE will be responsible for populating this template for all districts.
2. Unique codes assigned to Achievement Level Code [Assessment Response:Achievement Level (13)] for "Met" and "Not Met".
3. Details regarding Appendix D – STARS Alternate Standards removed pending approval.
4. Overview chart moved to Scope section.

**Appendix B - State Standards (full-slate)**

The following table contains the valid values where Standards = "STARS".

<b>Appendix B - State Standards (full-slate)</b>		
<b>Subject/ Grade</b>	<b>Standard Code</b>	<b>Standard Description</b>
Science 04	NE.4.1.1	Students will develop an understanding of systems, order, and organization.
Science 04	NE.4.1.2	Students will develop an understanding of evidence, models, and explanation.
Science 04	NE.4.1.3	Students will develop an understanding of change, constancy, and measurement.
Science 04	NE.4.1.4	Students will develop an understanding of form and function.
Science 04	NE.4.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 04	NE.4.3.1	Students will develop an understanding of the characteristics of objects and materials.
Science 04	NE.4.3.2	Students will develop an understanding of the position and motion of objects.
Science 04	NE.4.3.3	Students will develop an understanding of light, heat, electricity, and magnetism.
Science 04	NE.4.4.1	Students will develop an understanding of the characteristics of living things.
Science 04	NE.4.4.2	Students will develop an understanding of the life cycles of living things.
Science 04	NE.4.4.3	Students will develop an understanding of living things and environments.
Science 04	NE.4.5.1	Students will develop an understanding of the characteristics of earth materials.
Science 04	NE.4.5.2	Students will develop an understanding of objects in the sky.
Science 04	NE.4.5.3	Students will develop an understanding of the changes in the earth and sky.
Science 04	NE.4.6.1	Students will develop an understanding of technological design.
Science 04	NE.4.6.2	Students will develop an understanding of science and technology.
Science 04	NE.4.6.3	Students will develop an understanding of the abilities to distinguish between natural objects and objects made by humans.
Science 04	NE.4.7.1	Students will develop an understanding of personal health.
Science 04	NE.4.7.2	Students will develop an understanding of the types of resources.
Science 04	NE.4.7.3	Students will develop an understanding of environmental changes.
Science 04	NE.4.7.4	Students will develop an understanding of how science and technology helps communities resolve problems.
Science 04	NE.4.8.1	Students will develop an understanding of science as a human endeavor.
Science 08	NE.8.1.1	Students will develop an understanding of systems, order, and organization.
Science 08	NE.8.1.2	Students will develop an understanding of evidence, models, and explanation.
Science 08	NE.8.1.3	Students will develop an understanding of change, constancy, and measurement.
Science 08	NE.8.1.4	Students will develop an understanding of form and function.
Science 08	NE.8.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 08	NE.8.3.1	Students will develop an understanding of properties and changes of properties in matter.
Science 08	NE.8.3.2	Students will develop an understanding of motion and forces.
Science 08	NE.8.3.3	Students will develop an understanding of the forms of energy and how energy is transferred.
Science 08	NE.8.4.1	Students will develop an understanding of the structure and function in living systems.
Science 08	NE.8.4.2	Students will develop an understanding of reproduction and heredity.
Science 08	NE.8.4.3	Students will develop an understanding of regulation and behavior.
Science 08	NE.8.4.4	Students will develop an understanding of populations and ecosystems.
Science 08	NE.8.4.5	Students will develop an understanding of diversity and adaptations of organisms.
Science 08	NE.8.5.1	Students will develop an understanding of the structure of the earth.
Science 08	NE.8.5.2	Students will develop an understanding of the earth's history.
Science 08	NE.8.5.3	Students will develop an understanding of the earth in the solar system.
Science 08	NE.8.6.1	Students will develop an understanding of technological design.
Science 08	NE.8.6.2	Students will develop an understanding of science and technology.
Science 08	NE.8.7.1	Students will develop an understanding of personal health.

<b>Appendix B - State Standards (full-slate)</b>		
<b>Subject/ Grade</b>	<b>Standard Code</b>	<b>Standard Description</b>
Science 08	NE.8.7.2	Students will develop an understanding of relationships among populations, resources, and environments.
Science 08	NE.8.7.3	Students will develop an understanding of natural hazards.
Science 08	NE.8.7.4	Students will develop an understanding of risks and benefits.
Science 08	NE.8.7.5	Students will develop an understanding of science and technology in society.
Science 08	NE.8.8.1	Students will develop an understanding of science as a human endeavor.
Science 08	NE.8.8.2	Students will develop an understanding of the nature of science.
Science 08	NE.8.8.3	Students will develop an understanding of the history of science.
Science 11	NE.12.1.1	Students will develop an understanding of systems, order, and organization.
Science 11	NE.12.1.2	Students will develop an understanding of evidence, models, and explanation.
Science 11	NE.12.1.3	Students will develop an understanding of change, constancy, and measurement.
Science 11	NE.12.1.4	Students will develop an understanding of form and function.
Science 11	NE.12.1.5	Students will develop an understanding of change over a period of time.
Science 11	NE.12.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 11	NE.12.3.1	Students will develop an understanding of the structure of the atom.
Science 11	NE.12.3.2	Students will develop an understanding of the structure and properties of matter.
Science 11	NE.12.3.3	Students will develop an understanding of chemical reactions.
Science 11	NE.12.3.4	Students will develop an understanding of motions and forces.
Science 11	NE.12.3.5	Students will develop an understanding of the conservation of energy and increase in disorder.
Science 11	NE.12.3.6	Students will develop an understanding of the interactions of energy and matter.
Science 11	NE.12.4.1	Students will develop an understanding of the cell.
Science 11	NE.12.4.2	Students will develop an understanding of the molecular basis of heredity.
Science 11	NE.12.4.3	Students will develop an understanding of the theory of biological evolution.
Science 11	NE.12.4.4	Students will develop an understanding of the interdependence of organisms.
Science 11	NE.12.4.5	Students will develop an understanding of matter, energy, and organization in living systems.
Science 11	NE.12.4.6	Students will develop an understanding of the behavior of organisms.
Science 11	NE.12.5.1	Students will develop an understanding of energy in the earth system.
Science 11	NE.12.5.2	Students will develop an understanding of geochemical cycles.
Science 11	NE.12.5.3	Students will develop a scientific understanding of the origin of the earth system.
Science 11	NE.12.5.4	Students will develop a scientific understanding of the origin of the universe.
Science 11	NE.12.6.1	Students will develop an understanding of technological design.
Science 11	NE.12.6.2	Students will develop an understanding about science and technology.
Science 11	NE.12.7.1	Students will develop an understanding of personal and community health.
Science 11	NE.12.7.2	Students will develop an understanding of the effects of population change.
Science 11	NE.12.7.3	Students will develop an understanding of natural resources.
Science 11	NE.12.7.4	Students will develop an understanding of environmental quality.
Science 11	NE.12.7.5	Students will develop an understanding of natural and human induced hazards.
Science 11	NE.12.7.6	Students will develop an understanding of the role of science and technology in local, national, and global challenges.
Science 11	NE.12.8.1	Students will develop an understanding of science as a human endeavor.
Science 11	NE.12.8.2	Students will develop an understanding of the nature of scientific knowledge.
Science 11	NE.12.8.3	Students will develop an understanding of the history of science.

## Appendix C - STAR State Standards

The following table contains the valid values where Standards = "STARS".

<b>Appendix C - STAR State Standards</b>		
<b>Subject/ Grade</b>	<b>Standard Code</b>	<b>Standard Description</b>
Science 04	NE.4.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 04	NE.4.3.1	Students will develop an understanding of the characteristics of objects and materials.
Science 04	NE.4.3.2	Students will develop an understanding of the position and motion of objects.
Science 04	NE.4.3.3	Students will develop an understanding of light, heat, electricity, and magnetism.
Science 04	NE.4.4.1	Students will develop an understanding of the characteristics of living things.
Science 04	NE.4.4.2	Students will develop an understanding of the life cycles of living things.
Science 04	NE.4.4.3	Students will develop an understanding of living things and environments.
Science 04	NE.4.5.1	Students will develop an understanding of the characteristics of earth materials.
Science 04	NE.4.5.2	Students will develop an understanding of objects in the sky.
Science 04	NE.4.5.3	Students will develop an understanding of the changes in the earth and sky.
Science 05	NE.5.2.1	Student will develop the abilities needed to do scientific inquiry.
Science 05	NE.5.3.2	Students will develop an understanding of motion and forces.
Science 05	NE.5.4.1	Students will develop an understanding of the structure and function in living systems.
Science 05	NE.5.5.1	Students will develop an understanding of the structure of the earth.
Science 08	NE.8.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 08	NE.8.3.1	Students will develop an understanding of properties and changes of properties in matter.
Science 08	NE.8.3.2	Students will develop an understanding of motion and forces.
Science 08	NE.8.3.3	Students will develop an understanding of the forms of energy and how energy is transferred.
Science 08	NE.8.4.1	Students will develop an understanding of the structure and function in living systems.
Science 08	NE.8.4.2	Students will develop an understanding of reproduction and heredity.
Science 08	NE.8.4.3	Students will develop an understanding of regulation and behavior.
Science 08	NE.8.4.4	Students will develop an understanding of populations and ecosystems.
Science 08	NE.8.4.5	Students will develop an understanding of diversity and adaptations of organisms.
Science 08	NE.8.5.1	Students will develop an understanding of the structure of the earth.
Science 08	NE.8.5.2	Students will develop an understanding of the earth's history.
Science 08	NE.8.5.3	Students will develop an understanding of the earth in the solar system.
Science 11	NE.12.2.1	Students will develop the abilities needed to do scientific inquiry.
Science 11	NE.12.3.1	Students will develop an understanding of the structure of the atom.
Science 11	NE.12.3.2	Students will develop an understanding of the structure and properties of matter.
Science 11	NE.12.3.3	Students will develop an understanding of chemical reactions.
Science 11	NE.12.3.4	Students will develop an understanding of motions and forces.
Science 11	NE.12.3.5	Students will develop an understanding of the conservation of energy and increase in disorder.
Science 11	NE.12.3.6	Students will develop an understanding of the interactions of energy and matter.
Science 11	NE.12.4.1	Students will develop an understanding of the cell.
Science 11	NE.12.4.2	Students will develop an understanding of the molecular basis of heredity.
Science 11	NE.12.4.3	Students will develop an understanding of the theory of biological evolution.
Science 11	NE.12.4.4	Students will develop an understanding of the interdependence of organisms.
Science 11	NE.12.4.5	Students will develop an understanding of matter, energy, and organization in living systems.
Science 11	NE.12.4.6	Students will develop an understanding of the behavior of organisms.
Science 11	NE.12.5.1	Students will develop an understanding of energy in the earth system.
Science 11	NE.12.5.2	Students will develop an understanding of geochemical cycles.

<b>Appendix C - STAR State Standards</b>		
<b>Subject/ Grade</b>	<b>Standard Code</b>	<b>Standard Description</b>
Science 11	NE.12.5.3	Students will develop a scientific understanding of the origin of the earth system.
Science 11	NE.12.5.4	Students will develop a scientific understanding of the origin of the universe.

## Appendix D – STARS Alternate Standards

The following table contains the valid values where Standards = “STARS Alternate”.

<b>Appendix D – STARS Alternate Standards</b>		
<b>Subject/ Grade</b>	<b>Standard Code</b>	<b>Standard Description</b>
Science 03	NE.S.3.1	Students will, using their primary mode of communication, demonstrate an understanding of personal health.
Science 04	NE.S.4.1	Students will, using their primary mode of communication, sort objects by attributes.
Science 05	NE.S.5.1	Students will, using their primary mode of communication, demonstrate an understanding of earth in the solar system.
Science 06	NE.S.6.1	Students will, using their primary mode of communication, demonstrate an understanding of the change of temperature in matter.
Science 07	NE.S.7.1	Students will, using their primary mode of communication, identify and apply knowledge of natural hazards.
Science 08	NE.S.8.1	Students will, using their primary mode of communication, demonstrate an understanding of the structure of the earth.
Science 11	NE.S.11.1	Students will, using their primary mode of communication, demonstrate an understanding of personal and community health.