







### EQuIP Rubric for Lessons & Units: Science

#### Introduction

The Educators Evaluating the Quality of Instructional Products (EQuIP) Rubric for science provides criteria by which to measure the alignment and overall quality of lessons and units with respect to the Next Generation Science Standards (NGSS). The purposes of the rubric and review process are to: (1) review existing lessons and units to determine what revisions are needed; (2) provide constructive criterion-based feedback and suggestions for improvement to developers; (3) identify exemplars/models for teachers' use within and across states; and (4) to inform the development of new lessons and units.

To effectively apply this rubric, an understanding of the National Research Council's *A Framework for K–12 Science Education and the Next Generation Science Standards*, including the NGSS shifts (appendix A of the NGSS), is needed. Unlike the EQuIP Rubrics for mathematics and ELA, there is not a category in the science rubric for shifts. Over the course of the rubric development, writers and reviewers noted that the shifts fit naturally into the other three categories. For example, the blending of the three-dimensions, or three-dimensional learning, is addressed in each of the three categories; coherence is addressed in the first two categories; connections to the Common Core State Standards is addressed in the first category; etc. Each category includes criteria by which to evaluate the integration of engineering, when included in a lesson or unit, through practices or disciplinary core ideas. Another difference between the EQuIP Rubrics from mathematics and ELA is in the name of the categories; the rubric for science refers to them simply as *categories*, whereas the math and ELA rubrics refer to the categories as dimensions. This distinction was made because the Next Generation Science Standards already uses the term *dimensions* to refer to practices, disciplinary core ideas, and crosscutting concepts.

The architecture of the NGSS is significantly different from other sets of standards. The three dimensions, crafted into performance expectations, describe what is to be assessed following instruction and therefore are the measure of proficiency. A lesson or unit may provide opportunities for students to demonstrate performance of practices connected with their understanding of core ideas and crosscutting concepts as foundational pieces. This three-dimensional learning leads toward eventual mastery of performance expectations. In this scenario, quality materials should clearly describe or show how the lesson or unit works coherently with previous and following lessons or units to help build toward eventual mastery of performance expectations. The term *element* is used in the rubric to represent the relevant, bulleted practices, disciplinary core ideas, and crosscutting concepts that are articulated in the foundation boxes of the standards as well as the in the NGSS appendices on each dimension. Given the understanding that a lesson or unit may include the blending of practices, disciplinary core ideas, and crosscutting concepts in a performance expectation, the new term *elements* was needed to describe these smaller units of the three dimensions. Although it is unlikely that a single lesson would provide adequate opportunities for a student to demonstrate proficiency on every dimension of a performance expectation, high-quality units are more likely to provide these opportunities to demonstrate proficiency on one or more performances expectations.

There is a recognition among educators that curriculum and instruction will need to shift with the adoption of the NGSS, but there is currently a lack of NGSS-aligned materials. The power of the rubric is in the feedback and suggestions for improvement it provides curriculum developers and the productive conversations educators have while evaluating materials (i.e., the review process). For curriculum developers, the rubric and review process provide evidence on the quality and alignment of a lesson or unit to the NGSS. Additionally, the rubric and review process generate suggestions for improvement on how materials can be further improved and more closely aligned to the NGSS. As more NGSS lessons and units are developed, this rubric may change to meet the evolving needs of supporting both educators in evaluating materials and developers in the modification and creation of materials. Additionally, support materials will be developed to complement the use of this rubric, such as a professional development guide, a criterion discussion guide, and publishers' criteria that will be more focused on textbooks and comprehensive curriculums.



### Directions

The first step in the review process is to become familiar with the rubric, the lesson or unit, and the practices, disciplinary core ideas, and crosscutting concepts targeted in the lesson or unit. The three categories in the rubric correspond to: alignment to the NGSS, instructional supports, and monitoring student progress. Specific criteria within each category should be considered separately as part of the complete review process and are used to provide sufficient information for determination of overall quality of the lesson or unit. For the purposes of using the rubric, a lesson is defined as: a coherent set of instructional activities and assessments aligned to the NGSS that may extend over a few to several class periods or days and a unit is defined as: coherent set of lessons aligned to the NGSS that extend over a longer period of time.

Also important to the review process is feedback and suggestions for improvement to the developer of the resource. For this purpose a set of response forms is included so that the reviewer can effectively provide criterion-based feedback and suggestions for improvement for each category. The response forms correspond to the criteria of the rubric. Evidence for each criterion must be identified and documented and criterion-based feedback and suggestions for improvement for each suggestions for improvement should be given to help improve the lesson or unit.

While it is possible for the rubric to be applied by an individual, the quality review process works best with a team of reviewers, as a collaborative process, with the individuals recording their thoughts and then discussing with other team members before finalizing their feedback and suggestions for improvement. Discussions should focus on understanding all reviewers' interpretations of the criteria and the evidence they have found. The goal of the process is to eventually calibrate responses across reviewers and to move toward agreement about quality with respect to the NGSS. Commentary needs to be constructive, with all lessons or units considered "works in progress." Reviewers must be respectful of team members and the resource contributor. Contributors should see the review process as an opportunity to gather feedback and suggestions for improvement rather than to advocate for their work. All feedback and suggestions for improvement should be criterion-based and have supporting evidence from the lesson or unit cited.

Note: This rubric will eventually have scoring guidelines for each category, as well as for an overall rating. However, given the current lack of NGSS-aligned materials, rather than focusing on ratings at this point in time, the focus should be on becoming familiar with the rubric and using it to provide criterion-based feedback and suggestions for improvement to developers and make revisions to existing materials.

### Step 1 – Review Materials

The first step in the review process is to become familiar with the rubric, the lesson or unit, and the practices, disciplinary core ideas, and crosscutting concepts targeted in the lesson or unit.

- Review the rubric and record the grade and title of the lesson or unit on the response form.
- Scan to see what the lesson or unit contains, what practices, disciplinary core ideas, and crosscutting concepts are targeted, and how it is organized.
- Read key materials related to instruction, assessment, and teacher guidance.

### Step 2 – Apply Criteria in Category I: Alignment to the NGSS

The second step is to evaluate the lesson or unit using the criteria in the first category, first individually and then as a team.

- Closely examine the lesson or unit through the "lens" of each criterion in the first category of the response form.
- Individually check each criterion on the response form for which clear and substantial evidence is found and record the evidence and reasoning.
- As a team, discuss criteria for which clear and substantial evidence is found, as well as criterion-based suggestions for specific improvements that might be needed to meet criteria.

If the lesson or unit is not closely aligned to the Next Generation Science Standards, it may not be appropriate to move on to the second and third categories. Professional judgment should be used when weighing the individual criterion. For example, a lesson without crosscutting concepts explicitly called out may be easier to revise than one without appropriate disciplinary core ideas; such a difference may determine whether reviewers believe the lesson merits continued evaluation or not.

### Step 3 – Apply Criteria in Categories II and III: Instructional Supports and Monitoring Student Progress

The third step is to evaluate the lesson or unit using the criteria in the second and third categories, first individually and then as a group.

• Closely examine the lesson or unit through the "lens" of each criterion in the second and third categories of the response form.

- Individually check each criterion on the response form for which clear and substantial evidence is found and record the evidence and reasoning.
- As a team, discuss criteria for which clear and substantial evidence is found, as well as criterion-based suggestions for specific improvements that might be needed to meet criteria.

When working in a group, teams may choose to compare ratings after each category or delay conversation until each person has rated and recorded input for the two remaining categories. Complete consensus among team members is not required but discussion is a key component of the review process.









# EQuIP Rubric for Lessons & Units: Science

I. Alignment to the NGSS	II. Instructional Supports	III. Monitoring Student Progress
The lesson or unit aligns with the conceptual shifts of	The lesson or unit supports instruction and learning for all students:	The lesson or unit supports monitoring student
the NGSS:	A. Engages students in authentic and meaningful scenarios that reflect the practice of	progress:
<ul> <li>A. Grade-appropriate elements of the science and engineering practice(s), disciplinary core idea(s), and crosscutting concept(s), work together to support students in three-dimensional learning to make sense of phenomena and/or to design solutions to problems.</li> <li>i. Provides opportunities to develop and use specific elements of the practice(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>ii. Provides opportunities to develop and use specific elements of the disciplinary core idea(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iii. Provides opportunities to develop and use specific elements of the disciplinary core idea(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iii. Provides opportunities to develop and use specific elements of the crosscutting concept(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iii. Provides opportunities to develop and use specific elements of the crosscutting concept(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iiii. Provides opportunities to develop and use specific elements of the crosscutting concept(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iv. The three dimensions work together to support sto make sense of phenomena and/or to design solutions to problems.</li> </ul>	<ul> <li>science and engineering as experienced in the real world and that provide students with a purpose (e.g., making sense of phenomena and/or designing solutions to problems).</li> <li>i. The context, including phenomena, questions, or problems, motivates students to engage in three-dimensional learning.</li> <li>ii. Provides students with relevant phenomena (either firsthand experiences or through representations) to make sense of and/or relevant problems to solve.</li> <li>iii. Engages students in multiple practices that work together with disciplinary core ideas and crosscutting concepts to support students in making sense of phenomena and/or designing solutions to problems.</li> <li>iv. Provides opportunities for students to connect their explanation of a phenomenon and/or their design solution to a problem to their own experience.</li> <li>v. When engineering performance expectations are included, they are used along with disciplinary core ideas from physical, life, or earth and space sciences.</li> <li>B. Develops deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts by identifying and building on students' prior knowledge.</li> <li>C. Uses scientifically accurate and grade-appropriate scientific information, phenomena, and representations to support students' three-dimensional learning.</li> <li>D. Provides opportunities for students to express, clarify, justify, interpret, and represent their ideas and respond to peer and teacher feedback orally and/or in written form as appropriate scientific and or in written form as appropriate scientific and/or in written form as approprine to puer science dimensional learning.</li> </ul>	<ul> <li>A. Elicits direct, observable evidence of three- dimensional learning by students using practices with core ideas and crosscutting concepts to make sense of phenomena and/or to design solutions.</li> <li>B. Formative assessments of three-dimensional learning are embedded throughout the instruction.</li> <li>C. Includes aligned rubrics and scoring guidelines that provide guidance for interpreting student performance along the three dimensions to support teachers in (a) planning instruction and (b) providing ongoing feedback to students.</li> <li>D. Assessing student proficiency using methods, vocabulary, representations, and examples that are accessible and unbiased for all students.</li> </ul>
to design solutions to problems.	E. Provides guidance for teachers to support differentiated instruction in the classroom so	E. Includes pre-, formative, summative, and
	that every student's needs are addressed by including:	self-assessment measures that assess three-
A unit or longer lesson will also:	i. Suggestions for how to connect instruction to the students' home, neighborhood,	dimensional learning.
<ul> <li>B. Lessons fit together coherently targeting a set of performance expectations.</li> <li>i. Each lesson links to previous lessons and provides a need to engage in the current lesson.</li> <li>ii. The lessons help students develop proficiency on a targeted set of performance expectations.</li> <li>C. Where appropriate, disciplinary core ideas from different disciplines are used together to explain phenomena.</li> <li>D. Where appropriate appropriate</li></ul>	<ul> <li>ii. Appropriate reading, writing, listening, and/or speaking alternatives (e.g., translations, picture support, graphic organizers) for students who are English language learners, have special needs, or read well below the grade level.</li> <li>iii. Suggested extra support (e.g., phenomena, representations, tasks) for students who are struggling to meet the performance expectations.</li> <li>iv. Extensions for students with high interest or who have already met the performance expectations to develop deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts.</li> </ul>	F. Provides multiple opportunities for students to demonstrate performance of practices connected with their understanding of disciplinary core ideas and crosscutting concepts and receive feedback.
in the explanation of phenomena from a variety of	A unit or longer lesson will also:	
disciplines. E. Provides grade-appropriate connection(s) to the Common Core State Standards in Mathematics and/or English Language Arts & Literacy in History/Social Studies, Science and Technical Subjects.	<ul> <li>F. Provides guidance for teachers throughout the unit for how lessons build on each other to support students developing deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts over the course of the unit.</li> <li>G. Provides supports to help students engage in the practices as needed and gradually adjusts supports over time so that students are increasingly responsible for making sense of phenomena and/or designing solutions to problems.</li> </ul>	









## EQuIP Rubric for Lessons & Units: Science

<b>Reviewer Name or ID:</b>	April McCrae	Grade: 2	Lesson/Unit Title:	Weather's Effect on Earth
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## I. Alignment to the NGSS

The lesson or unit aligns with the conceptual shifts of the NGSS:

Criteria	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
<ul> <li>A. Grade-appropriate elements of the science and engineering practice(s), disciplinary core idea(s), and crosscutting concept(s), work together to support students in three-dimensional learning to make sense of phenomena and/or to design solutions to problems.</li> <li>i. Provides opportunities to develop and use specific elements of the practice(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>ii. Provides opportunities to develop and use specific elements of the disciplinary core idea(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iii. Provides opportunities to develop and use specific elements of the crosscutting concept(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iiii. Provides opportunities to develop and use specific elements of the crosscutting concept(s) to make sense of phenomena and/or to design solutions to problems.</li> <li>iv. The three dimensions work together to support students to make sense of phenomena and/or to design solutions to problems.</li> <li>iv. The three dimensions work together to support students to make sense of phenomena and/or to design solutions to problems.</li> </ul>	<ul> <li>i. Learning Map identifies modeling as a practice that will be used by students in this learning sequence.</li> <li>ii. Disciplinary Core Idea identified "Earth Events can occur quickly or slowly."—Specifically, these lessons identify weather and geologic events affecting Earth's surface.</li> <li>Lesson 1. Students read and observe pictures about volcances <ul> <li>Lesson does not appear to include a phenomenon as a motivational driving force for investigation. Students read about volcances because they are instructed to do so by the teacher.</li> <li>Lesson 2. Students use text to answer text dependent question about Erosion <ul> <li>Lesson 3. Students compare to include a phenomenon as a motivational driving force for investigation. Students read about erosion because they are instructed to do so by the teacher.</li> </ul> </li> <li>Lesson 3. Students use text to answer text dependent question about Erosion <ul> <li>Lesson 3. Students compare process of erosion to volcanic activity using Venn Diagrams and essay writing.</li> <li>Lesson does not appear to include a phenomenon as a motivational driving force for investigation or communication of information.</li> </ul> </li> <li>iii. Crosscutting concepts: This set of lessons are based around the crosscutting concept of stability and change identified in the standard through the Earth changing events that can occur quickly or slowly over time.</li> </ul></li></ul>	<ul> <li>i. According to the NGSS Appendix F (Practice 2 Developing and Using Models) "In science, models are used to represent a system (or parts of a system) under study, to aid in the development of questions and explanations, to generate data that can be used to make predictions, and to communicate ideas to others. Students can be expected to evaluate and refine models though an iterative cycle of comparing their predications with the real world and then adjusting them to gain insights into the phenomenon being modeled" (page 52).</li> <li>At Grades K-2 Modeling "builds on prior experiences and progresses to include using and developing models that represent concrete events or design solutions." (pg. 53).</li> <li>Students at this stage should be able to: <ul> <li>Distinguish between a model and the actual object, process, and/or events the model represents.</li> <li>Compare models to identify common features and differences.</li> <li>Develop and/or use a model to represent amounts, relationships, relative scales, and/or patterns in the natural and designed world(s).</li> <li>Develop a simple model based on evidence to represent a proposed object or tool. (pg. 53)</li> </ul> </li> <li>ii. According to the Framework for K-12 Science Education " in order for students to develop a sustained attraction to science and for them to appreciate the many ways in which it is pertinent to</li> </ul>

- Lesson 1. Students identify through a video and direct instruction that different volcanoes have different rates of lava flow (explosive or oozing)
  - Lesson does not appear to include a phenomenon as a motivational driving force for investigation. Students read and take notes about volcanoes because they are instructed to do so by the teacher.
- Lesson 2. Students use text to answer text dependent question about Erosion—including lengths of time for process to occur (millions of years)
  - Lesson does not appear to include a phenomenon as a motivational driving force for investigation. Students read and take notes about erosion because they are instructed to do so by the teacher.
- Lesson 3. Students compare process of erosion to volcanic activity using Venn Diagrams and essay writing. Lesson does not specifically point out, or have student identify crosscutting concept of stability and change as a primary focus of the comparison
  - Lesson does not appear to include a phenomenon as a motivational driving force for investigation or communication of information.

iv. Three dimensions working together to make sense of phenomena: There is no evidence of this in the lessons provided.

their daily lives, classroom learning experiences in science need to connect with their own interests and experiences.

As a strategy for building on prior interest, the disciplinary core ideas identified here are described not only with an eye toward the knowledge that students bring with them to school but also toward the kinds of questions they are likely to pose themselves at different ages. . . Framing a curriculum around such sets of questions helps to communicate relevance and salience to this audience."

Also keep in mind that Disciplinary Core Ideas, According to the Framework, are meant to:

1. Have broad importance across multiple sciences or engineering disciplines or be a key organizing principle of a single discipline.

2. Provide a key tool for understanding or investigating more complex ideas and solving problems.

 Relate to the interests and life experiences of students or be connected to societal or personal concerns that require scientific or technological knowledge.

4. Be teachable and learnable over multiple grades at increasing levels of depth and sophistication. That is, the idea can be made accessible to younger students but is broad enough to sustain continued investigation over years.

iii. From page 89 of Volume 2 (Appendix G) of the NGSS: "**Stability and Change** are ways of describing how a system functions. Whether studying ecosystems or engineered systems, the question is often to determine how the system is changing over time and which factors are causing the system to become unstable."

iv. From "Conceptual Shifts in the Next Generation Science Standards" (Appendix A, NGSS). "The vision represented in the Framework is new in that students must be engaged at the nexus of the three dimensions:

- Science and Engineering Practices,
- Crosscutting Concepts, and
- Disciplinary Core Ideas.

Given the importance of science and engineering in
the 21 <sup>st</sup> century, students require a sense of
contextual understanding with regard to scientific
knowledge, how it is acquired and applied, and how
science is connected through a series of concepts
that help further our understanding of the world
around us. Student performance expectations have
to include a student's ability to apply a practice to
content knowledge. Performance expectations
thereby focus on understanding and application as
opposed to memorization of facts devoid of context."

### A unit or longer lesson will also:

Criteria	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
<ul> <li>B. Lessons fit together coherently targeting a set of performance expectations.</li> <li>i. Each lesson links to previous lessons and provides a need to engage in the current lesson.</li> <li>ii. The lessons help students develop proficiency on a targeted set of performance expectations.</li> </ul>	Lessons do refer to previous lessons—each noting that the teacher will have students review the previous lesson prior to moving forward.	NGSS recommendations include having students be integrally involved in the investigation of a phenomenon or phenomena thus increasing their motivation and desire to learn more. Perhaps if students were initially intrigued by a scenario, or a set of pictures of strange landforms that made them wonder what had happened they might be interested in digging into the phenomenon to determine why things looked the way they did and whether it could happen again? For one day of investigation to lead to a whole different set of questions that students can't wait to figure out the answers to is a coherency that drives learning versus an instructional "flow" that illustrates that a TEACHER knows what the next day brings, versus the student driving toward answers they can't wait to find.
<ul> <li>C. Where appropriate, disciplinary core ideas from different disciplines are used together to explain phenomena.</li> </ul>		
<ul> <li>D. Where appropriate, crosscutting concepts are used in the explanation of phenomena from a variety of disciplines.</li> </ul>		
<ul> <li>E. Provides grade-appropriate connection(s) to the Common Core State Standards in Mathematics and/or English Language Arts &amp; Literacy in History/Social Studies, Science and Technical Subjects.</li> </ul>	It is clear that this lesson is connected with ELA CC standards. In many ways, this lesson IS a common core ELA lesson more-so than it is an NGSS-aligned science investigation.	Combining ELA strategies and NGSS investigation/DCI and crosscutting concept building is a fine idea. The goal, however, is to ensure that the strategies are complementary and not competitive. This lesson is so heavily focused on the ELA strategies that the science is almost a second thought, and struggles to meet the identified NGSS standard. Consider having students use the readings as part of an investigation, but not as the full focus of the investigation. There are many other standards (NGSS) that should be bundled with this concept (2-ESS2-1, 2-Ess2-2 and 2- Ess2-3) to build a cohesive unit. NGSS isn't meant to be taught one standard at a time.

If the lesson or unit is not closely aligned to the Next Generation Science Standards, it may not be appropriate to move on to the second and third categories. Professional judgment should be used when weighing the individual criterion. For example, a lesson without crosscutting concepts explicitly called out may be easier to revise than one without appropriate disciplinary core ideas; such a difference may determine whether reviewers believe the lesson merits continued evaluation or not.

Did not continue review beyond section 1 of the rubric. The lesson cluster is not aligned with the standards.

## II. Instructional Supports

The lesson or unit supports instruction and learning for all students:

Criteria	Constitution of former methods and not inverse in a	Currentiana fan inconsurant
	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
<ul> <li>A. Engages students in authentic and meaningful scenarios that reflect the practice of science and engineering as experienced in the real world and that provide students with a purpose (e.g., making sense of phenomena and/or designing solutions to problems).</li> <li>i. The context, including phenomena, questions, or problems, motivates students to engage in three-dimensional learning.</li> <li>ii. Provides students with relevant phenomena (either firsthand experiences or through representations) to make sense of and/or relevant problems to solve.</li> <li>iii. Engages students in multiple practices that work together with disciplinary core ideas and crosscutting concepts to support students in making sense of phenomena and/or designing solutions to problems.</li> <li>iv. Provides opportunities for students to connect their explanation of a phenomenon and/or their design solution to a problem to their own experience.</li> <li>v. When engineering performance expectations are included, they are used along with disciplinary core ideas from physical life, or earth and space sciences</li> </ul>		
Replaced and a standard and a standard and a standard and space sciences.		
B. Develops deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts by identifying and building on students' prior knowledge.		
<ul> <li>C. Uses scientifically accurate and grade-appropriate scientific information, phenomena, and representations to support students' three-dimensional learning.</li> </ul>		
D. Provides opportunities for students to express, clarify, justify, interpret, and represent their ideas and respond to peer and teacher feedback orally and/or in written form as appropriate to support student's three-dimensional learning.		
<ul> <li>E. Provides guidance for teachers to support differentiated instruction in the classroom so that every student's needs are addressed by including:         <ol> <li>Suggestions for how to connect instruction to the students' home, neighborhood, community and/or culture as appropriate.</li> <li>Appropriate reading, writing, listening, and/or speaking alternatives (e.g., translations, picture support, graphic organizers) for students who are English language learners, have special needs, or read well below the grade level.</li> <li>Suggested extra support (e.g., phenomena, representations, tasks) for students who are struggling to meet the performance expectations.</li> <li>Extensions for students with high interest or who have already met the performance expectations to develop deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts.</li> </ol> </li> </ul>		

A unit or longer lesson will also:

Criteria	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
F. Provides guidance for teachers throughout the unit for how lessons build on each other to support students developing deeper understanding of the practices, disciplinary core ideas, and crosscutting concepts over the course of the unit.		
<ul> <li>G. Provides supports to help students engage in the practices as needed and gradually adjusts supports over time so that students are increasingly responsible for making sense of phenomena and/or designing solutions to problems.</li> </ul>		

# III. Monitoring Student Progress

The lesson or unit supports monitoring student progress:

Criteria	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
<ul> <li>A. Elicits direct, observable evidence of three- dimensional learning by students using practices with core ideas and crosscutting concepts to make sense of phenomena and/or to design solutions.</li> </ul>		
<ul> <li>B. Formative assessments of three-dimensional learning are embedded throughout the instruction.</li> </ul>		
<ul> <li>C. Includes aligned rubrics and scoring guidelines that provide guidance for interpreting student performance along the three dimensions to support teachers in (a) planning instruction and (b) providing ongoing feedback to students.</li> </ul>		
<ul> <li>D. Assessing student proficiency using methods, vocabulary, representations, and examples that are accessible and unbiased for all students.</li> </ul>		

A unit or longer lesson will also:

Crite	ria	Specific evidence from materials and reviewers' reasoning	Suggestions for improvement
	E. Includes pre-, formative, summative, and self- assessment measures that assess three- dimensional learning.		
	F. Provides multiple opportunities for students to demonstrate performance of practices connected with their understanding of disciplinary core ideas and crosscutting concepts and receive feedback.		

Overall Summary Comments: