edTPA stems from a twenty-five-year history of developing performance-based assessments of teaching quality and effectiveness. The Teacher Performance Assessment Consortium (Stanford and AACTE) acknowledges the National Board for Professional Teaching Standards, the Interstate Teacher Assessment and Support Consortium, and the Performance Assessment for California Teachers for their pioneering work using discipline-specific portfolio assessments to evaluate teaching quality. This version of the handbook has been developed with thoughtful input from over six hundred teachers and teacher educators representing various national design teams and Washington student-voice committees, national subject matter organizations (ACEI, ACTFL, AMLE, CEC, IRA, NAEYC, NAGC, NCSS, NCTE, NCTM, NSTA, SHAPE America), and content validation reviewers. All contributions are recognized and appreciated.
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Introduction to edTPA Secondary Science for Washington

Purpose

The purpose of edTPA Secondary Science, a nationally available performance-based assessment, is to measure novice teachers’ readiness to teach science at the secondary level. The assessment is designed with a focus on student learning and principles from research and theory. It is based on findings that successful teachers

- develop knowledge of subject matter, content standards, and subject-specific pedagogy
- develop and apply knowledge of varied students’ needs
- consider research and theory about how students learn
- reflect on and analyze evidence of the effects of instruction on student learning

The Washington version adds a state emphasis of involving students in their own learning process and providing student-voice evidence. As a performance-based assessment, edTPA is designed to engage candidates in demonstrating their understanding of teaching and student learning in authentic ways.

Overview of the Assessment

The edTPA Secondary Science for Washington assessment is composed of three tasks:

1. Planning for Instruction and Assessment
2. Instructing and Engaging Students in Learning
3. Assessing Student Learning

For this assessment, you will first plan 3–5 consecutive science lessons (or, if teaching science within a large time block, 3–5 hours of connected instruction) referred to as a learning segment. A learning segment prepared for this assessment should reflect a balanced approach to science, including opportunities for students to develop their abilities to use scientific concepts and apply scientific practices through inquiry to explain or make predictions about a real-world phenomenon.

Scientific practices through inquiry, as defined by the Next Generation Science Standards, focus on eight key components:

- Asking questions
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

After planning your learning segment, you will then teach the learning segment, making a videorecording of your interactions with students during instruction. You will also assess, informally and formally, students’ learning throughout the learning segment. Upon completion of the three tasks, you will submit artifacts from the tasks (e.g., lesson plans, clips from your videorecording, assessment materials, instructional materials, student work samples), as well as commentaries that you have written to explain and reflect on the Planning, Instruction, and Assessment components of the tasks. The artifacts and commentaries for each task will then be evaluated using rubrics especially developed for each task.

The edTPA Tasks and the Cycle of Effective Teaching

The three edTPA tasks represent a cycle of effective teaching (i.e., teaching that is focused on student learning). Planning Task 1 documents your intended teaching, Instruction Task 2 documents your enacted teaching, and Assessment Task 3 documents the impact of your teaching on student learning.
will reflect upon the cyclical relationship among planning, instruction, and assessment with a focus on your students’ learning needs.

Evidence of Teaching Practice: Artifacts and Commentaries
An essential part of edTPA is the evidence you will submit of how you planned, taught, and assessed your lessons to deepen student learning in science. This evidence includes both artifacts and commentaries:

- **Artifacts** represent authentic work completed by you and your students. These include lesson plans, copies of instructional and assessment materials, video clips of your teaching, student work samples, and student-voice evidence.

- **Commentaries** are your opportunity to describe your artifacts, explain the rationale behind their choice and use, and analyze and reflect on what you have learned about your teaching practice and your students’ learning and their understanding of their own learning. Note that although your writing ability will not be scored directly, commentaries must be clearly written and well focused.

When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, planning, and writing. Refer to the [Secondary Science for Washington Evidence Chart](#) for information about how your evidence should be formatted for electronic submission.

Evaluation Criteria
The rubrics used to score your performance are included in this handbook, following the sections describing the directions for each task. The descriptors in the five-level rubrics address a wide range of performance, beginning with the knowledge and skills of a novice not ready to teach (Level 1) and extending to the advanced practices of a highly accomplished beginner (Level 5).

Structure of the Handbook
The following pages provide specific instructions on how to complete each of the three tasks of the edTPA Secondary Science for Washington assessment. After an overview of the tasks, the handbook provides instructions for each task, organized into four sections:

1. **What Do I Need to Think About?**
   This section provides focus questions for you to think about when completing the task.

2. **What Do I Need to Do?**
   This section provides specific, detailed directions for completing the task.

3. **What Do I Need to Write?**
   This section tells you what you need to write and also provides specific and detailed directions for writing the commentary for the task.

4. **How Will the Evidence of My Teaching Practice Be Assessed?**
   This section includes the rubrics that will be used to assess the evidence you provide for the task.
Additional requirements and resources are provided for you in this handbook:

- **Professional Responsibilities**: guidelines for the development of your evidence
- **Secondary Science Context for Learning Information**: prompts used to collect information about your school/classroom context
- **Secondary Science for Washington Evidence Chart**: specifications for electronic submission of evidence (artifacts and commentaries), including templates, supported file types, number of files, response length, and other important evidence specifications
- **Glossary**: definitions of key terms can be accessed by rolling your cursor over each glossary term marked with a dotted underline throughout the handbook or by referring to the [Secondary Science for Washington Glossary](#).

You should review the *Making Good Choices* document prior to beginning the planning of the learning segment. If you are in a preparation program, it will have additional resources that provide guidance as you develop your evidence.

Review all instructions carefully before beginning to teach the learning segment to ensure that you are well prepared for all tasks. **Before you record your videos, pay particular attention to the specific content focus of each video clip submission; these foci are described in the What Do I Need to Do? sections in Instruction Task 2 and Assessment Task 3.** Refer to the **Professional Responsibilities** section of this handbook for important information about permissions, confidentiality, and other requirements.

If your program requires you to submit artifacts and commentaries for official scoring, refer to [www.edTPA.com](http://www.edTPA.com) for complete and current information before beginning your work and to download templates for submitting materials. The website contains information about the registration process, submission deadlines, submission requirements, withdrawal/refund policies, and score reporting. It also provides contact information should you have questions about your registration and participation in edTPA.

Whether submitting directly to [www.edTPA.com](http://www.edTPA.com) or via your program’s electronic portfolio management system, follow the submission guidelines as documented in the Evidence Chart and review [edTPA Submission Requirements](#) to ensure that your materials conform to the required evidence specifications and requirements for scoring.
# edTPA Secondary Science for Washington

## Tasks Overview

### Planning Task 1: Planning for Instruction and Assessment

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What to Submit</th>
<th>Evaluation Rubrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>★ Select one class as a focus for this assessment.</td>
<td>Part A: Context for Learning Information</td>
<td>Planning Rubrics</td>
</tr>
<tr>
<td>★ Provide relevant context information.</td>
<td>Part B: Lesson Plans for Learning Segment</td>
<td>Rubric 1: Planning for Scientific Understandings</td>
</tr>
<tr>
<td>★ Identify a learning segment to plan, teach, and analyze student learning. Your learning segment should include 3–5 consecutive lessons (or, if teaching science within a large time block, about 3–5 hours of connected instruction).</td>
<td>Part C: Instructional Materials</td>
<td>Rubric 2: Planning to Support Varied Student Learning Needs</td>
</tr>
<tr>
<td>★ Determine a central focus for your learning segment. The central focus should support students’ use of scientific concepts and application of scientific practices through inquiry to develop evidence-based explanations of OR predictions for a real-world phenomenon based on patterns in evidence and/or data.</td>
<td>Part D: Assessments</td>
<td>Rubric 3: Using Knowledge of Students to Inform Teaching and Learning</td>
</tr>
<tr>
<td>★ Write and submit a lesson plan for each lesson in the learning segment.</td>
<td>Part E: Planning Commentary</td>
<td>Rubric 4: Identifying and Supporting Language Demands</td>
</tr>
<tr>
<td>★ Determine how you will share the learning targets in student-friendly language. (student voice)</td>
<td></td>
<td>Rubric 5: Planning Assessments to Monitor and Support Student Learning</td>
</tr>
<tr>
<td>★ Identify tools and strategies for students to express their understanding of the learning targets and progress toward them. (student voice)</td>
<td></td>
<td>Student-Voice Planning Rubric</td>
</tr>
<tr>
<td>★ Select and submit key instructional materials needed to understand what you and the students will be doing.</td>
<td></td>
<td>Rubric 16: Eliciting Student Understanding of Learning Targets</td>
</tr>
<tr>
<td>★ Choose one language function and other language demands important to understanding secondary science in your learning segment. Identify a learning task where students are supported to use this language.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>★ Respond to commentary prompts prior to teaching the learning segment.</td>
<td></td>
<td></td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>What to Do</th>
<th>What to Submit</th>
<th>Evaluation Rubrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>► Submit copies of all written assessments and/or clear directions for</td>
<td></td>
<td></td>
</tr>
<tr>
<td>any oral or performance assessments from the learning segment.</td>
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<td></td>
</tr>
</tbody>
</table>
### Instruction Task 2: Instructing and Engaging Students in Learning

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What to Submit</th>
<th>Evaluation Rubrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>► Obtain required permissions for videorecording from parents/guardians of your students and other adults appearing in the video.</td>
<td>□ Part A: Video Clips</td>
<td>Instruction Rubrics</td>
</tr>
<tr>
<td>► Identify lessons from the learning segment you planned in Planning Task 1 to be videorecorded. You should choose lessons that show you interacting with students in a positive learning environment to</td>
<td>□ Part B: Instruction Commentary</td>
<td>Rubric 6: Learning Environment</td>
</tr>
<tr>
<td>▪ support them to (1) analyze and interpret evidence and/or data they have collected or selected from a scientific inquiry and (2) use their analysis to construct and evaluate explanations of or predictions about a real-world phenomenon and</td>
<td></td>
<td>Rubric 7: Engaging Students in Learning</td>
</tr>
<tr>
<td>▪ elicit student understandings of the learning targets and their perceptions of what they are doing well and what they need to improve. (student voice)</td>
<td></td>
<td>Rubric 8: Deepening Student Learning</td>
</tr>
<tr>
<td>► Videorecord your teaching and select 2 video clips (no more than 10 minutes each, but not less than 3 minutes combined). If needed to demonstrate student-voice evidence, submit an additional clip of no more than 5 minutes.</td>
<td></td>
<td>Rubric 9: Subject-Specific Pedagogy: Analyzing Evidence and/or Data</td>
</tr>
<tr>
<td>► Analyze your teaching and your students’ learning in the video clips by responding to commentary prompts.</td>
<td></td>
<td>Rubric 10: Analyzing Teaching Effectiveness</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Student-Voice Instruction Rubric</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rubric 17: Supporting Student Understanding of the Learning Target and Use of Tools and/or Strategies to Learn and Monitor Their Own Progress</td>
</tr>
</tbody>
</table>
### Assessment Task 3: Assessing Student Learning

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What to Submit</th>
<th>Evaluation Rubrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one assessment from the learning segment that you will use to evaluate your students’ developing knowledge and skills. Attach the assessment used to evaluate student performance to the end of the Assessment Commentary.</td>
<td>Part A: Student Work Samples</td>
<td><strong>Assessment Rubrics</strong></td>
</tr>
<tr>
<td>Define and submit the evaluation criteria you will use to analyze student learning.</td>
<td>Part B: Evidence of Feedback</td>
<td>Rubric 11: Analysis of Student Learning</td>
</tr>
<tr>
<td>Collect and analyze student work from the selected assessment and related student-voice evidence that articulates students’ own learning. Use this evidence to identify quantitative and qualitative patterns of learning within and across learners in the class.</td>
<td>Part C: Assessment Commentary</td>
<td>Rubric 12: Providing Feedback to Guide Learning</td>
</tr>
<tr>
<td>Select 3 student work samples with related student self-reflections (student voice) to illustrate your analysis of patterns of learning within and across learners in the class. At least 1 of the samples must be from a student with specific learning needs. These 3 students will be your focus students.</td>
<td>Part D: Evaluation Criteria</td>
<td>Rubric 13: Student Understanding and Use of Feedback</td>
</tr>
<tr>
<td>Summarize the learning of the whole class, referring to work samples and related self-reflections from the 3 focus students to illustrate patterns in student understanding across the class.</td>
<td>Part E: Student Self-Reflections</td>
<td>Rubric 14: Analyzing Students’ Language Use and Science Learning</td>
</tr>
<tr>
<td>Submit feedback for the work samples for the 3 focus students in written, audio, or video form.</td>
<td></td>
<td>Rubric 15: Using Assessment to Inform Instruction</td>
</tr>
<tr>
<td>Analyze evidence of students’ language use from (1) the video clips from Instruction Task 2, (2) an additional video clip of one or more students using language within the learning segment, <strong>AND/OR</strong> (3) the student work samples from Assessment Task 3.</td>
<td></td>
<td>Rubric 18: Reflecting on Student-Voice Evidence to Improve Instruction</td>
</tr>
<tr>
<td>Analyze evidence of student learning and student articulation of their learning, and plan for next steps by responding to commentary prompts.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaluate the effectiveness of the self-reflection tool or strategy used.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Plannning Task 1: Planning for Instruction and Assessment

What Do I Need to Think About?

In Planning Task 1, you will describe your plans for the learning segment and explain how your instruction is appropriate for the students and the content you are teaching. As you develop your plans, you need to think about the following:

- What do your students know, what can they do, and what are they learning to do?
- What do you want your students to learn? What are the important understandings and core concepts you want students to develop within the learning segment?
- How will you use your knowledge of your students’ assets to inform your plans?
- What instructional strategies, learning tasks, and assessments will you design to support student learning and language use?
- How will your learning segment support students to develop and use language that deepens content understanding?
- How is the teaching you propose supported by research and theory about how students learn?

What Do I Need to Do?

- **Select a class.** If you teach more than one class, select one focus class for this assessment. If your placement for science has you responsible for a group rather than a whole class, plans should describe instruction for that group *(minimum of 4 students).* That group will constitute “the whole class” for edTPA.

- **Provide context information.** The *Secondary Science Context for Learning Information* form is provided later in this handbook and must be submitted in a template. This form provides essential information about your students and your school/classroom. The context information you submit should be **no more than 4 pages, including prompts.**

- **Identify a learning segment to plan, teach, and analyze.** Review the curriculum with your cooperating teacher and select a learning segment of *3–5 consecutive lessons.* *(If teaching science within a large time block, select a learning segment of about 3–5 hours of connected instruction.)*

- **Identify a central focus.** Identify the central focus along with the content standards and learning target(s) you will address in the learning segment. The central focus should support students in using scientific concepts and applying scientific practices through inquiry to explain a real-world phenomenon or predict reasonable outcomes based on patterns in evidence and/or data.

- **Identify and plan to support language demands.** Select a key language function from your learning target(s). Choose a learning task that provides opportunities for students to
practice using that language function. Identify additional language demands associated with that task. Plan targeted supports that address the identified language demands, including the language function.

- **Write a lesson plan** for each lesson in the learning segment. Your lesson plans should be detailed enough that a substitute or other teacher could understand them well enough to use them.

- Your lesson plans must include the following information, even if your teacher preparation program requires you to use a specific lesson plan format:
  - State-adopted student academic content standards that are the target of student learning (Note: Please include the number and text of each standard that is being addressed. If only a portion of a standard is being addressed, then only list the part or parts that are relevant.)
  - Learning target(s) associated with the content standards
  - Informal and formal assessments used by both the teacher and students to monitor student learning, including type(s) of assessment and what is being assessed
  - Instructional strategies and learning tasks (including what you and the students will be doing) that support diverse student needs
  - Instructional resources and materials used to engage students in learning

- **Each lesson plan must be no more than 4 pages in length.** You will need to condense or excerpt lesson plans longer than 4 pages. Any explanations or rationale for decisions should be included in your Planning Commentary and deleted from your plans.

- **Respond to the commentary prompts** listed in the Planning Commentary section prior to teaching the learning segment.

- **Submit your original lesson plans.** If you make changes while teaching the learning segment, you may offer reflection on those changes in the Instruction Task 2 and Assessment Task 3 Commentaries.

- **Select and submit key instructional materials.** These are needed to understand what you and the students will be doing (no more than 5 additional pages per lesson plan). The instructional materials might include such items as class handouts, assignments, slides, and interactive whiteboard images.

- **Submit copies of all written assessments and/or directions for any oral or performance assessments.** (Submit only the blank assessment given to students; do not submit student work samples for this task.)

- **Provide citations for the source of all materials that you did not create** (e.g., published texts, websites, and material from other educators). List all citations by lesson number at the end of the Planning Commentary. Note: Citations do not count toward the commentary page limit.
See the Planning Task 1: Artifacts and Commentary Specifications in the Secondary Science for Washington Evidence Chart for instructions on electronic submission of evidence. This evidence chart identifies templates, supported file types, number of files, response length, and other important evidence specifications. Your evidence cannot contain hyperlinked content. Any web content you wish to include as part of your evidence must be submitted as a document file, which must conform to the file format and response length requirements.

What Do I Need to Write?

In Planning Task 1, you will write

- a description of your Context for Learning (see “What Do I Need to Do?” above for directions)
- lesson plans (see “What Do I Need to Do?” above for directions)
- a commentary explaining your plans (see “Planning Commentary” below for directions)

Planning Commentary

In Planning Task 1, you will write a commentary, responding to the prompts below. Your commentary should be no more than 11 single-spaced pages, including the prompts.

1. Central Focus
   a. Describe the central focus and purpose of the content you will teach in the learning segment.
   b. Given the central focus, describe how the standards and learning target(s) within your learning segment address
      - the use of science concepts,
      - the application of scientific practices through inquiry, and
      - the development and evaluation of evidence-based explanations of or reasonable predictions about a real-world phenomenon based on patterns of evidence and/or data.
   c. Explain how your plans build on each other to help students understand relationships between scientific concepts, scientific practices through inquiry, and the phenomenon in the learning segment.
   d. Student Understanding of Learning Targets
      - If not in your lesson plans, provide the learning targets exactly as presented to students.
      - How and when will you introduce the learning targets to students?
How and when will you give students opportunities to express their understanding of the learning targets and why they are important to learn?

What tools or strategies will students use? How familiar are students with them?

2. Knowledge of Students to Inform Teaching

For each of the prompts below (2a–b), describe what you know about your students with respect to the central focus of the learning segment.

Consider the variety of learners in your class who may require different strategies/support (e.g., students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students).

a. Prior academic learning and prerequisite skills related to the central focus and the learning targets—Cite evidence of what students know, what they can do, and what they are still learning to do.

b. Personal, cultural, and community assets related to the central focus—What do you know about your students’ everyday experiences, cultural and language backgrounds and practices, and interests?

3. Supporting Students’ Science Learning

Respond to the prompts below (3a–c). To support your justifications, refer to the instructional materials and lesson plans you have included as part of Planning Task 1. In addition, use principles from research and/or theory to support your justifications.

a. Justify how your understanding of your students’ prior academic learning and personal, cultural, and community assets (from prompts 2a–b above) guided your choice or adaptation of learning tasks and materials. Be explicit about the connections between the learning tasks and students’ prior academic learning, their assets, and research/theory.

b. Describe and justify why your instructional strategies and planned supports are appropriate for the whole class, individuals, and groups of students with specific learning needs.

Consider the variety of learners in your class who may require different strategies/support (e.g., students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students).

c. Describe common preconceptions (based on prior academic learning and experiences) within your central focus and how you will identify and address them.
4. Supporting Science Development through Language

As you respond to prompts 4a–d, consider the range of students’ language assets and needs—what do students already know, what are they struggling with, and/or what is new to them?

a. **Language Function.** Using information about your student’s language assets and needs, identify one language function, from the list below, essential for students to develop understanding of science concepts, the phenomenon, and the application of scientific practices through inquiry within your central focus.

<table>
<thead>
<tr>
<th>Analyze</th>
<th>Explain</th>
<th>Interpret</th>
<th>Justify with evidence</th>
<th>Predict</th>
</tr>
</thead>
</table>

b. Identify a key learning task from your plans that provides students with opportunities to practice using the language function. Identify the lesson in which the learning task occurs. (Give the lesson/day and number.)

c. **Additional Language Demands.** Given the language function and learning task identified above, describe the following associated language demands (written or oral) students need to understand and/or use:

- Vocabulary and/or symbols
- **Plus** at least one of the following:
  - Syntax
  - Discourse

d. **Language Supports.** Refer to your lesson plans and instructional materials as needed in your response to the prompt.

- Identify and describe the planned instructional supports (during and/or prior to the learning task) to help students understand, develop, and use the identified language demands (function, vocabulary and/or symbols, syntax, or discourse).

5. Monitoring Student Learning

In response to the prompts below, refer to the assessments you will submit as part of the materials for Planning Task 1.

a. Describe how your planned formal and informal assessments will provide direct evidence for you and your students to monitor their understanding of

- science concepts,
- the real-world phenomenon, **AND**
- the application of scientific practices through inquiry

**throughout** the learning segment.
b. Explain how the design or adaptation of your planned assessments allows students with specific needs to demonstrate their learning.

Consider the variety of learners in your class who may require different strategies/support (e.g., students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students).

c. Describe when and where you and the students will use tools and/or strategies to identify what they are doing well and what they need to improve to reach the learning targets through a process of reflection, revision, and goal setting.

How Will the Evidence of My Teaching Practice Be Assessed?

For Planning Task 1, your evidence will be assessed using rubrics 1–5, which appear on the following pages, and Student-Voice Rubric 16, which appears after Rubric 15. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, planning, and writing.
## Rubric 1: Planning for Scientific Understandings

How do the candidate’s plans build students’ abilities to use science concepts and scientific practices during inquiry to explain or make predictions about a real-world phenomenon?

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
</table>
| Candidate’s plans for instruction **focus solely on memorization and following prescribed procedures for an “inquiry” with no opportunities** for students to engage in scientific practices through inquiry. | Candidate’s plans for instruction **include opportunities** for students to engage in scientific practices through inquiry. | Candidate’s plans for instruction **build on each other** to support students to
- **learn science concepts,**
- **investigate a phenomenon by engaging in scientific practices through inquiry,** AND
- **construct explanations of the phenomenon or reasonable predictions based on evidence and/or data.** | Candidate’s plans for instruction build on each other to support students to
- **learn science concepts,**
- **investigate a phenomenon by engaging in scientific practices through inquiry,** AND
- **construct evidence-based explanations of the phenomenon or support predictions with patterns in evidence and/or data.** |
| **OR** | | | | | Candidate’s plans for instruction build on each other to support students to
- **learn science concepts,**
- **investigate a phenomenon by engaging in scientific practices through inquiry,** AND
- **construct and evaluate evidence-based explanations of the phenomenon or predictions based on patterns in evidence and/or data.** |
| **OR** | | | | |
| **Standards, learning target(s), learning tasks, and materials are not aligned with each other.** | | | | |

1 Text representing key differences between adjacent score levels is shown in bold. Evidence that does not meet Level 1 criteria is scored at Level 1.
Rubric 2: Planning to Support Varied Student Learning Needs

How does the candidate use knowledge of his/her students to target support for students to use science concepts and scientific practices during inquiry to explain or make predictions about a real-world phenomenon?

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no evidence of planned supports.</td>
<td>Planned supports are loosely tied to learning target(s) or the central focus of the learning segment.</td>
<td>Planned supports are tied to learning target(s) and the central focus with attention to the characteristics of the class as a whole.</td>
<td>Planned supports are tied to learning target(s) and the central focus. Supports address the needs of specific individuals or groups with similar needs.</td>
<td>Level 4 plus: Supports include specific strategies to identify and respond to preconceptions, common errors and misunderstandings for the majority of students.</td>
</tr>
</tbody>
</table>

OR

Candidate does NOT attend to ANY INSTRUCTIONAL requirements in IEPs and 504 plans.
### Rubric 3: Using Knowledge of Students to Inform Teaching and Learning

**How does the candidate use knowledge of his/her students to justify instructional plans?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
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<tbody>
<tr>
<td>Candidate’s justification of learning tasks is either <strong>missing</strong> OR <strong>represents a deficit view</strong> of students and their backgrounds.</td>
<td>Candidate justifies learning tasks with <strong>limited attention to students</strong></td>
<td>Candidate <strong>justifies why learning tasks (or their adaptations) are appropriate using examples of students’</strong></td>
<td>Candidate justifies why learning tasks (or their adaptations) are appropriate using examples of students’ <strong>AND</strong></td>
<td><strong>Level 4 plus:</strong> Candidate’s justification is <strong>supported by principles from research and/or theory.</strong></td>
</tr>
<tr>
<td>• prior academic learning OR</td>
<td>• prior academic learning OR</td>
<td>• prior academic learning OR</td>
<td>• prior academic learning <strong>AND</strong></td>
<td></td>
</tr>
<tr>
<td>• personal, cultural, or community assets.</td>
<td>• personal, cultural, or community assets.</td>
<td>• personal, cultural, or community assets.</td>
<td>• personal, cultural, or community assets.</td>
<td></td>
</tr>
<tr>
<td>Candidate makes <strong>superficial connections to research and/or theory.</strong></td>
<td></td>
<td>Candidate makes <strong>connections to research and/or theory.</strong></td>
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### Rubric 4: Identifying and Supporting Language Demands

**How does the candidate identify and support language demands associated with a key science learning task?**

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<tbody>
<tr>
<td>Language demands&lt;sup&gt;2&lt;/sup&gt; identified by the candidate are not consistent with the selected language function&lt;sup&gt;3&lt;/sup&gt; OR task. OR Language supports are missing or are not aligned with the language demand(s) for the learning task.</td>
<td>Language supports primarily address one language demand (function, vocabulary and/or symbols, syntax, discourse).</td>
<td>General language supports address use of two or more language demands (function, vocabulary and/or symbols, syntax, discourse).</td>
<td>Targeted language supports address use of&lt;br&gt;• vocabulary and/or symbols,&lt;br&gt;• language function, AND&lt;br&gt;• one or more additional language demands (syntax, discourse).</td>
<td>Level 4 plus: Language supports are designed to meet the needs of students with different levels of language learning.</td>
</tr>
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<sup>2</sup> Language demands include language function, vocabulary and/or symbols, syntax, and discourse (organizational structures, text structure, etc.).

<sup>3</sup> Language function refers to the learning outcome (verb) selected in prompt 4a (e.g., analyze, interpret).
Rubric 5: Planning Assessments to Monitor and Support Student Learning

How are the informal and formal assessments selected or designed to monitor students’ progress toward using science concepts and scientific practices during inquiry to explain or predict a real-world phenomenon?

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<tbody>
<tr>
<td>The assessments only provide evidence of students’ ability to memorize and follow prescribed procedures.</td>
<td>The assessments provide limited evidence to monitor students’ understanding of science concepts, the phenomenon, AND the application of scientific practices during scientific inquiry during the learning segment.</td>
<td>The assessments provide evidence to monitor students’ understanding of science concepts, the phenomenon, AND the application of scientific practices during scientific inquiry during the learning segment.</td>
<td>The assessments provide multiple forms of evidence to monitor students’ progress toward developing understanding of science concepts, the phenomenon, AND the application of scientific practices during scientific inquiry throughout the learning segment.</td>
<td>Level 4 plus: The assessments are strategically designed to allow individuals or groups with specific needs to demonstrate their learning.</td>
</tr>
</tbody>
</table>

OR

Candidate does not attend to ANY ASSESSMENT requirements in IEPs and 504 plans.
Instruction Task 2: Instructing and Engaging Students in Learning

What Do I Need to Think About?

In Instruction Task 2, you will demonstrate how you support and engage students in learning. Before you begin your instruction, you need to think about the following:

- What kind of learning environment do you want to develop in order to establish respect and rapport, and to support students’ engagement in learning?
- What kinds of learning tasks actively engage students in the central focus of the learning segment?
- How will you thoughtfully elicit and build on student responses in ways that develop and deepen content understanding?
- In what ways will you connect new content to your students’ prior academic learning and personal, cultural, or community assets during your instruction?
- How will you use evidence from your instruction to examine and change your teaching practices to more effectively meet a variety of student learning needs?

What Do I Need to Do?

- **Obtain required permission for videorecording.** Before you record your video, ensure that you have the appropriate permission from the parents/guardians of your students and from adults who appear in the video. Adjust the camera angle to exclude individuals for whom you do not have permission to film.

- **Examine your plans for the learning segment** and identify challenging learning tasks in which you and students are actively engaged. The video clips you select for submission should provide a sample of how you interact with students to
  - analyze and interpret evidence and/or data they have collected or selected from a scientific inquiry,
  - use their analysis to construct and evaluate evidence-based explanations of or reasonable predictions about a real-world phenomenon, and
  - elicit their understandings of the learning target(s) and communicate what they are doing well and what they need to improve relative to the learning target(s).

- **Identify lessons to videorecord.**

- **Provide 2 video clips (each no more than 10 minutes in length, but not less than 3 minutes combined)** that demonstrate how you interact with students in a positive learning environment to develop their understanding of how to use evidence and/or data and science concepts to construct and evaluate explanations of or predictions about a real-world phenomenon.
The first clip should illustrate how you actively engaged students in organizing and analyzing evidence and/or data from a scientific inquiry. Students should be examining the evidence and/or data to look for patterns, identify outliers, and/or explore contradictory findings.

The second clip should illustrate how you facilitated your students’ use of scientific evidence and/or data AND concepts to construct and evaluate

- evidence-based explanations of a phenomenon or
- predictions of reasonable outcomes based on patterns in evidence and/or data.

If the selected video clips do not provide video evidence of the use of tools and/or strategies for students to communicate their understandings of the learning target and/or reflect on what they are doing well and what they need to improve, you may provide an additional clip of no more than 5 minutes with that focus. (If reflections are collected through a written tool, you may just describe the tool in the commentary.)

(Optional) Provide evidence of students’ language use. You may provide evidence of language use with your video clips from Instruction Task 2, as an additional video clip of one or more students using language within the learning segment (no more than 5 minutes in length), AND/OR through the student work samples analyzed in Assessment Task 3.

Determine whether you will feature the whole class or a targeted group of students (minimum of 4 students) within the class.

Videorecord your classroom teaching. Tips for videorecording your class are available from your teacher preparation program.

Select video clips to submit and verify that the clips meet the following requirements:

- Check the video and sound quality to ensure that you and your students can be seen and heard on the video clips you submit. If most of the audio in a clip cannot be understood by a scorer, submit another clip. If there are occasional audio portions of a clip that cannot be understood that are relevant to your commentary responses, do one of the following: 1) provide a transcript with time stamps of the inaudible portion and refer to the transcript in your response; 2) embed quotes with time-stamp references in the commentary response; or 3) insert captions in the video (captions for this purpose will be considered permissible editing).

- A video clip must be continuous and unedited, with no interruption in events.

- If you have inadvertently included individuals for whom you do not have permission to film in the video clip(s) you plan to submit, you may use software to blur the faces of these individuals. This is not considered editing. Other portions of the submitted video clip(s)—including the classroom, your face, and the faces of individuals for whom you have obtained permission to film—should remain unblurred.

- Do not include the name of the state, school, or district in your video. Use first names only for all individuals appearing in the video.

Respond to the prompts listed in the Instruction Commentary section below after viewing the video clips.
Determine if additional information is needed to understand what you and the students are doing in the video clips. For example, if there are graphics, texts, or images that are not clearly visible in the video, or comments that are not clearly heard, you may insert digital copies or transcriptions at the end of the Instruction Commentary (no more than 2 pages in addition to the responses to commentary prompts).

See the Instruction Task 2: Artifacts and Commentary Specifications in the Secondary Science for Washington Evidence Chart for instructions on electronic submission of evidence. This evidence chart identifies templates, supported file types, number of files, response length, and other important evidence specifications. Your evidence cannot contain hyperlinked content. Any web content you wish to include as part of your evidence must be submitted as a document file, which must conform to the file format and response length requirements.

What Do I Need to Write?

Instruction Commentary

In Instruction Task 2, you will write a commentary, responding to the prompts below. Your commentary should be no more than 7 single-spaced pages, including the prompts. If needed, insert no more than 2 additional pages of supporting documentation for the videorecordings at the end of the commentary (e.g., digital copies of indiscernible materials or transcriptions of inaudible comments). These additional pages do not count toward the commentary page limit noted above.

1. Which lesson or lessons are shown in the video clips? Identify the lesson(s) by lesson plan number.

2. Promoting a Positive Learning Environment
   Refer to scenes in the video clips where you provided a positive learning environment.
   a. How did you demonstrate mutual respect for, rapport with, and responsiveness to students with varied needs and backgrounds, and challenge students to engage in learning?
   b. If relevant, describe what you did to ensure safety during the inquiry seen in the video clips.

3. Engaging Students in Learning
   Refer to examples from the video clips in your responses to the prompts.
   a. Describe the tools and/or strategies you used to elicit student expression of their understanding of the learning target(s) and why they are important.
   b. What was the process by which students selected or collected evidence and/or data to support evidence-based explanations of or predictions about the real-world phenomenon being investigated?
   c. Explain how you engaged students during a scientific inquiry in
- using evidence and/or data and science concepts to construct an evidence-based explanation of or prediction about a real-world phenomenon and
- supporting or refuting alternative explanations or predictions.

d. Describe how your instruction linked students’ prior academic learning and personal, cultural, or community assets with new learning.

4. Deepening Student Learning during Instruction

Refer to examples from the video clips in your explanations.

a. Explain how you elicited and built on student responses to promote thinking and develop understandings of science concepts, scientific practices through inquiry, and the phenomenon being investigated.

b. Explain how your instruction supported students to use science concepts, consider the quality of evidence and/or data (e.g., missing data, inconsistent results), and/or apply scientific practices while they are organizing and analyzing evidence and/or data during a scientific inquiry.

c. Student Understanding of Learning Progress

- Explain how you and the students used tools and/or strategies to assist them in reflecting on what they are doing well and/or what they need to improve. Provide time stamp references for examples in the clip(s) or describe the use of written tools.
- Explain how familiar students are with the use of each tool or strategy.

5. Analyzing Teaching

Refer to examples from the video clips in your responses to the prompts.

a. What changes would you make to your instruction—for the whole class and/or for students who need greater support or challenge—to better support student learning of the central focus (e.g., missed opportunities)?

Consider the variety of learners in your class who may require different strategies/support (such as students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students).

b. Why do you think these changes would improve student learning? Support your explanation with evidence of student learning AND principles from theory and/or research.

How Will the Evidence of My Teaching Practice Be Assessed?

For Instruction Task 2, your evidence will be assessed using rubrics 6–10, which appear on the following pages, and Student-Voice Rubric 17, which appears after Rubric 16. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, instruction, and writing.
**Instruction Rubrics**

**Rubric 6: Learning Environment**

How does the candidate demonstrate a safe and respectful learning environment that supports students’ engagement in learning?

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<tr>
<td>The clips reveal evidence of <strong>disrespectful interactions</strong> between teacher and students or between students. <strong>OR</strong> Candidate allows disruptive behavior to interfere with student learning. <strong>OR</strong> There are <strong>safety hazards</strong> seen in the clip that pose an immediate danger to students that are not addressed by the candidate.</td>
<td>The candidate <strong>demonstrates respect for students.</strong> <strong>AND</strong> Candidate provides a <strong>learning environment that serves primarily to control student behavior, and minimally supports the learning goals.</strong> <strong>AND</strong> Candidate provides a <strong>positive, low-risk learning environment that reveals mutual respect among students.</strong></td>
<td>The candidate demonstrates <strong>rapport with and respect for students.</strong> <strong>AND</strong> Candidate provides a <strong>challenging learning environment that promotes mutual respect among students.</strong></td>
<td>The candidate demonstrates <strong>rapport with and respect for students.</strong> <strong>AND</strong> Candidate provides a <strong>challenging learning environment that provides opportunities to express varied perspectives</strong> and promotes mutual respect among students.</td>
<td></td>
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## Rubric 7: Engaging Students in Learning

How does the candidate actively engage students in analyzing and interpreting scientific data to construct evidence-based explanations of or predictions about a real-world phenomenon?

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<tbody>
<tr>
<td>Candidate does not engage students in constructing an explanation of or predictions about the phenomenon.</td>
<td>Candidate engages students in constructing explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
</tr>
<tr>
<td>AND</td>
<td>Candidate engages students in constructing explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
<td>Candidate supports students in constructing evidence-based explanations of or predictions about the phenomenon.</td>
</tr>
<tr>
<td>AND</td>
<td>Students do not support an explanation or prediction with reference to acceptable science concepts OR evidence and/or data.</td>
<td>Students refer to evidence and/or data AND/OR acceptable science concepts but do not explain how they support an explanation or prediction.</td>
<td>Students explain how evidence and/or data AND acceptable science concepts support an explanation or prediction.</td>
<td>Students use evidence and/or data and acceptable science concepts to support or refute alternative explanations or predictions.</td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>There is little or no evidence that the candidate links students' prior academic learning or personal, cultural, or community assets with new learning.</td>
<td>Candidate makes vague or superficial links between prior academic learning and new learning.</td>
<td>Candidate links prior academic learning to new learning.</td>
<td>Candidate links both prior academic learning and personal, cultural, or community assets to new learning.</td>
<td>Candidate prompts students to link prior academic learning and personal, cultural, or community assets to new learning.</td>
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Rubric 8: Deepening Student Learning

How does the candidate elicit responses to promote thinking and understanding of science concepts and abilities to apply scientific practices during scientific inquiry?

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</table>
| Candidate does most of the talking and students provide few responses. | Candidate primarily asks surface-level questions and evaluates student responses as correct or incorrect. | Candidate elicits student responses related to understanding  
- science concepts,  
- scientific practices through inquiry, AND/OR  
- the phenomenon being investigated. | Candidate elicits and builds on students’ own ideas about  
- science concepts,  
- scientific practices through inquiry, AND/OR  
- the phenomenon being investigated. | Level 4 plus: Candidate facilitates interactions among students so they can evaluate their own  
- data collection,  
- procedures,  
- interpretations, OR  
- evidence-based explanations or predictions. |

OR

Candidate responses include significant content inaccuracies that will lead to student misunderstandings.
### Rubric 9: Subject-Specific Pedagogy: Analyzing Evidence and/or Data

**How does the candidate facilitate students’ analysis of the evidence and/or data based on scientific inquiry?**

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<tbody>
<tr>
<td>Candidate does not ask students to present or record their evidence and/or data.</td>
<td>Candidate asks students to present or record evidence and/or data.</td>
<td>Candidate asks students to present or record evidence and/or data in tables, maps, diagrams, or other graphical or statistical displays.</td>
<td>Candidate asks students to present or record evidence and/or data in tables, maps, diagrams, or other graphical or statistical displays.</td>
<td>Level 4 plus: Candidate leads students to consider limitations of the evidence and/or data, methods used to collect evidence and/or data, or analysis.</td>
</tr>
<tr>
<td>OR</td>
<td>AND</td>
<td>AND</td>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>There is no analysis of data.</td>
<td>Candidate takes the primary role in analyzing the data.</td>
<td>Candidate guides students to find patterns AND/OR inconsistencies in the data.</td>
<td>Candidate facilitates a data analysis discussion where students demonstrate the ability to find patterns AND/OR inconsistencies in the data.</td>
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## Rubric 10: Analyzing Teaching Effectiveness

How does the candidate use evidence to evaluate and change teaching practice to meet students’ varied learning needs?

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<tbody>
<tr>
<td>Candidate suggests changes unrelated to evidence of student learning.</td>
<td>Candidate proposes changes to teacher practice that are superficially related to student learning needs (e.g., task management, pacing, improving directions).</td>
<td>Candidate proposes changes that address students’ collective learning needs related to the central focus.</td>
<td>Candidate proposes changes that address individual and collective learning needs related to the central focus.</td>
<td>Level 4 plus: Candidate justifies changes using principles from research and/or theory.</td>
</tr>
<tr>
<td>Candidate makes superficial connections to research and/or theory.</td>
<td></td>
<td>Candidate makes superficial connections to research and/or theory.</td>
<td>Candidate makes connections to research and/or theory.</td>
<td></td>
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Assessment Task 3: Assessing Student Learning

What Do I Need to Think About?

In Assessment Task 3, you will analyze students’ learning, their understanding of their learning progress, and their use of language. Before you begin the analysis, you need to think about the following:

- How will you gather evidence and make sense of what students have learned and understand about their learning progress?
- How will you provide meaningful feedback to your students?
- How will you use evidence of what students know and are able to do as well as student self-reflections to plan next steps in instruction?
- How will you analyze student self-reflections to improve tools and strategies for developing metacognitive skills?
- How will you identify evidence of and explain students’ use of language that demonstrates the development of content understanding?

What Do I Need to Do?

- **Select one assessment from your learning segment you and the students will use to evaluate** their progress toward the learning target(s). It should be an assessment that is completed by the whole class featured in the learning segment. (If you are teaching only a group within the class for the learning segment, that group will be “the whole class.”) The assessment should reflect the work of individuals, not groups, but may be individual work from a group task. The assessment should provide opportunities for students to demonstrate:
  - conceptual understanding
  - use of scientific practices during inquiry
  - the development and evaluation of evidence-based explanations of or reasonable predictions about a real-world phenomenon based on patterns of evidence and/or data

- **Define and submit the evaluation criteria you will use to analyze student learning related to the science understandings described above.**

- **Ask students to reflect on their performances on the chosen assessment by**
  - communicating the learning target in a developmentally appropriate way
  - describing what they did well and/or what they needed to improve
  - identifying tools and/or strategies needed to close any gap between present performance and the learning target(s)
Collect and analyze student work and related self-reflections from the selected assessment to identify quantitative and qualitative patterns of learning within and across learners in the class. You may submit text files with scanned student work, a video or audio file of a student’s oral work, OR a student-created video or multimedia file. Student self-reflections may be submitted as either document or video files. For each focus student, a video or audio work sample and/or a video-recorded self-reflection must be no more than 5 minutes total running time.

Select 3 student work samples that represent the patterns of learning (i.e., what individuals or groups generally understood and what a number of students were still struggling to understand) you identified in your assessment analysis. Each work sample and self-reflection must come from the same student. These students will be your focus students for this task. At least one of the focus students must have specific learning needs, for example, a student with an IEP (Individualized Education Program) or 504 plan, an English language learner, a struggling reader, an underperforming student or a student with gaps in academic knowledge, and/or a gifted student needing greater support or challenge.

Document the feedback you gave to each of the 3 focus students on the work sample itself, as an audio clip, or as a video clip. You must submit evidence of the actual feedback provided to each focus student, and not a description of the feedback.

If you submit a student work sample or feedback as a video or audio clip or submit a student self-reflection as a video clip and comments made by you or your focus student(s) cannot be clearly heard, do one of the following: 1) attach a transcription of the inaudible comments (no more than 2 additional pages) to the end of the Assessment Commentary; 2) embed quotes with time-stamp references in the commentary response; or 3) insert captions in the video (captions for this purpose will be considered permissible editing).

If you submit a student work sample or feedback as a video or audio clip or submit a student self-reflection as a video clip and additional students are present, clearly identify which students are your focus students in the relevant prompts (1f and 2a) of the Assessment Commentary (in no more than 2 sentences).

Respond to the prompts listed in the Assessment Commentary section below after analyzing student work from the selected assessment.

Include and submit the chosen assessment, including the directions/prompts provided to students. Attach the assessment (no more than 5 additional pages) to the end of the Assessment Commentary.

Provide evidence of students’ understanding and use of the targeted academic language function and other language demands. You may choose evidence from video clips submitted in Instruction Task 2, an additional video clip of one or more students using language within the learning segment (no more than 5 minutes in length), AND/OR student work samples submitted in Assessment Task 3.
See the Assessment Task 3: Artifacts and Commentary Specifications in the Secondary Science for Washington Evidence Chart for instructions on electronic submission of evidence. This evidence chart identifies templates, supported file types, number of files, response length, and other important evidence specifications. Your evidence cannot contain hyperlinked content. Any web content you wish to include as part of your evidence must be submitted as a document file, which must conform to the file format and response length requirements.

What Do I Need to Write?

Assessment Commentary

In Assessment Task 3, you will write a commentary, responding to the prompts below. Your commentary should be no more than 12 single-spaced pages, including the prompts. Attach the assessment used to evaluate student performance (no more than 5 additional pages) and, if necessary, a transcription of inaudible portions of a multimedia clip of feedback, a student work sample, or a student self-reflection (no more than 2 additional pages) to the end of the Assessment Commentary. These additional pages do not count toward the commentary page limit noted above.

1. Analyzing Student Learning
   a. Identify the specific learning target(s) measured by the assessment you chose for analysis.
   b. Provide a graphic (table or chart) or narrative that summarizes student learning for your whole class. Be sure to summarize student learning for all evaluation criteria submitted in Assessment Task 3, Part D.
   c. Provide a graphic (table or chart) or narrative that summarizes students’ understanding of what they did well and/or needed to improve (student voice).
   d. Use evidence found in the 3 student work samples and student self-reflections, and the whole class summary, to analyze the patterns of learning for the whole class and differences for groups or individual learners relative to
      ▪ conceptual understanding,
      ▪ use of scientific practices during inquiry, AND
      ▪ development of an evidence-based explanation or reasonable prediction about a real-world phenomenon.

   Consider what students understand and do well, and where they continue to struggle (e.g., common errors, confusions, need for greater challenge).

   e. What did you learn from student self-reflections on their own learning progress, considering their performance on the assessment?
   f. If a video or audio work sample and/or a video self-reflection occurs in a group context (e.g., discussion), provide the name of the clip and clearly describe how the scorer can identify the focus student(s) (e.g., position, physical description) whose work or self-reflection is portrayed.
2. Feedback to Guide Further Learning

Refer to specific evidence of submitted feedback to support your explanations.

a. Identify the format in which you submitted your evidence of feedback for the 3 focus students. Choose one of the following:

- Written directly on work samples or in separate documents that were provided to the focus students
- In audio files
- In a video clip from Instruction Task 2 (provide a time-stamp reference) or in separate video clips

If a video or audio clip of feedback occurs in a group context (e.g., discussion), clearly describe how the scorer can identify the focus student (e.g., position, physical description) who is being given feedback.

b. Explain how feedback provided to the 3 focus students addresses their individual strengths and needs relative to the learning target(s) measured.

c. Describe how you will support each focus student to understand and use this feedback to further their learning related to learning target(s), either within the learning segment or at a later time.

3. Evidence of Language Understanding and Use

When responding to the prompt below, use concrete examples from the video clips and/or student work samples as evidence. Evidence from the clips may focus on one or more students.

You may provide evidence of students’ language use from ONE, TWO, OR ALL THREE of the following sources:

1. Use video clips from Instruction Task 2 and provide time-stamp references for evidence of language use.

2. Submit an additional video file named “Language Use” of no more than 5 minutes in length and cite language use (this can be footage of one or more students’ language use). Submit the clip in Assessment Task 3, Part B.

3. Use the student work samples analyzed in Assessment Task 3 and cite language use.
a. Explain and provide concrete examples for the extent to which your students were able to use or struggled to use the
- selected language function,
- vocabulary and/or symbols, AND
- syntax or discourse

to develop content understandings.

4. Using Assessment to Inform Instruction

a. Based on your analysis of student learning and student self-reflections presented in prompts 1b–e, describe next steps for planning and instruction to impact student learning:
   - For the whole class
   - For the 3 focus students and other individuals/groups with specific needs

Consider the variety of learners in your class who may require different strategies/support (e.g., students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students needing greater support or challenge).

b. Provide a rationale for how these next steps follow from your analysis of student learning and their self-reflections. Support your explanation with principles from research and/or theory.

c. Identify any proposed revisions in tools/strategies for collecting what students thought they did well and/or needed to improve (student voice), providing a rationale for why revisions were or were not needed.

How Will the Evidence of My Teaching Practice Be Assessed?

For Assessment Task 3, your evidence will be assessed using rubrics 11–15, which appear on the following pages, and Student-Voice Rubric 18, which appears after Rubric 17. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, planning, instruction, assessment, and writing.
Assessment Rubrics

Rubric 11: Analysis of Student Learning

How does the candidate analyze evidence of student learning related to conceptual understanding, the use of scientific practices during inquiry, and evidence-based explanations or reasonable predictions about a real-world phenomenon?

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<tr>
<td>The analysis is superficial or not supported by either student work samples or the summary of student learning. OR The evaluation criteria, learning target(s), and/or analysis are not aligned with each other.</td>
<td>The analysis focuses on what students did right OR wrong. AND Analysis includes some differences in whole class learning.</td>
<td>The analysis focuses on what students did right AND wrong. AND Patterns of learning are described for whole class.</td>
<td>Analysis uses specific examples from work samples to demonstrate patterns of learning consistent with the summary. AND Patterns of learning are described for individuals or groups.</td>
<td>Analysis uses specific evidence from work samples to demonstrate the connections between quantitative and qualitative patterns of learning for individuals or groups.</td>
</tr>
</tbody>
</table>
**Rubric 12: Providing Feedback to Guide Learning**

**What type of feedback does the candidate provide to focus students?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feedback is unrelated to the learning target(s) OR is developmentally inappropriate. OR Feedback contains significant content inaccuracies. OR No feedback is provided to one or more focus students.</td>
<td>Feedback is general and addresses needs AND/OR strengths related to the learning target(s).</td>
<td>Feedback is specific and addresses either needs OR strengths related to the learning target(s).</td>
<td>Feedback is specific and addresses both strengths AND needs related to the learning target(s).</td>
<td>Level 4 plus: Feedback for one or more focus students • provides a strategy to address an individual learning need OR • makes connections to prior learning or experience to improve learning.</td>
</tr>
</tbody>
</table>
### Rubric 13: Student Understanding and Use of Feedback

**How does the candidate support focus students to understand and use the feedback to guide their further learning?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opportunities for understanding or using feedback are not described.</td>
<td>Candidate provides vague description of how focus students will understand or use feedback.</td>
<td>Candidate describes how students will understand or use feedback related to the learning target(s).</td>
<td>Candidate describes how s/he will support focus students to understand and use feedback on their strengths OR weaknesses related to the learning target(s).</td>
<td>Candidate describes how s/he will support focus students to understand and use feedback on their strengths AND weaknesses related to the learning target(s).</td>
</tr>
</tbody>
</table>
## Rubric 14: Analyzing Students’ Language Use and Science Learning

**How does the candidate analyze students’ use of language to develop content understanding?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate identifies student language use that is superficially related or unrelated to the language demands (function, vocabulary and/or symbols, and additional demands).</td>
<td>Candidate describes how students use only one language demand (vocabulary and/or symbols, function, syntax, discourse).</td>
<td>Candidate <strong>explains and provides evidence of</strong> students’ use of&lt;br&gt;• <strong>the language function</strong> AND&lt;br&gt;• <strong>one or more additional language demands</strong> (vocabulary and/or symbols, syntax, discourse).</td>
<td>Candidate explains and provides evidence of students’ use of&lt;br&gt;• <strong>the language function,</strong>&lt;br&gt;• <strong>vocabulary and/or symbols,</strong> AND&lt;br&gt;• <strong>additional language demand(s)</strong> (syntax, discourse) <strong>in ways that develop content understandings.</strong></td>
<td>Level 4 plus: Candidate explains and provides evidence of language use and content learning for students with varied needs.</td>
</tr>
</tbody>
</table>

OR

Candidate’s description or explanation of language use is not consistent with the evidence submitted.

---

4 Previous footnote is now obsolete and has been deleted.

5 Previous footnote is now obsolete and has been deleted.
**Rubric 15: Using Assessment to Inform Instruction**

**How does the candidate use the analysis of what students know and are able to do to plan next steps in instruction?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next steps <strong>do not follow</strong> from the analysis.</td>
<td>Next steps primarily focus on changes to teaching practice that are superficially related to student learning needs, for example, repeating instruction, pacing, or classroom management issues.</td>
<td>Next steps <strong>propose general support that improves student learning related to assessed learning target(s).</strong> Next steps are <strong>loosely connected with research and/or theory.</strong></td>
<td>Next steps provide targeted support to individuals or groups to improve their learning relative to • conceptual understanding, • use of scientific practices during inquiry, <strong>AND/OR</strong> • construction of evidence-based explanations of or reasonable predictions about a real-world phenomenon. Next steps are <strong>connected with research and/or theory.</strong></td>
<td>Next steps provide targeted support to individuals <strong>AND</strong> groups to improve their learning relative to • conceptual understanding, • use of scientific practices during inquiry, <strong>AND/OR</strong> • construction of evidence-based explanations of or reasonable predictions about a real-world phenomenon. Next steps are <strong>justified with principles from research and/or theory.</strong></td>
</tr>
<tr>
<td><strong>OR</strong> Next steps are <strong>not relevant to the learning target(s) assessed.</strong></td>
<td><strong>OR</strong> Next steps are <strong>not described in sufficient detail to understand them.</strong></td>
<td><strong>OR</strong></td>
<td><strong>OR</strong></td>
<td><strong>OR</strong></td>
</tr>
</tbody>
</table>

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### Washington Student-Voice Rubrics

#### Rubric 16: Eliciting Student Understanding of Learning Targets

**How does the candidate focus student attention on the learning targets?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate lists the learning targets for each lesson.</td>
<td>Candidate creates developmentally appropriate learning targets consistent with students’ prior knowledge and academic language.</td>
<td>Candidate creates developmentally appropriate learning targets, considering students’ prior knowledge and academic language.</td>
<td>Candidate creates developmentally appropriate learning targets linked to the context of the lesson and considering students’ prior knowledge and academic language.</td>
<td>Candidate considers students’ prior knowledge, academic language, and the context for the lessons and scaffolds the learning targets for the series of lessons using developmentally appropriate language.</td>
</tr>
<tr>
<td><strong>AND</strong></td>
<td><strong>AND</strong></td>
<td><strong>AND</strong></td>
<td><strong>AND</strong></td>
<td><strong>AND</strong></td>
</tr>
<tr>
<td>Candidate provides one or more tools and/or strategies for students to communicate their understanding of the learning targets in a developmentally appropriate way.</td>
<td>Candidate provides instructions for the use of one or more tools and/or strategies for students to communicate their understanding of the learning targets and why these targets are important for their learning in a developmentally appropriate way.</td>
<td>Candidate provides instructions for the use of one or more tools and/or strategies for students to communicate their understanding of the learning targets and why these targets are important for their learning in a developmentally appropriate way.</td>
<td>Candidate considers student metacognitive skills and plans to create together with students one or more tools and/or strategies to enhance their reflection, revision, and new goal setting.</td>
<td><strong>AND</strong></td>
</tr>
</tbody>
</table>

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Rubric 17: Supporting Student Understanding of the Learning Target and Use of Tools and/or Strategies to Learn and Monitor Their Own Progress

How does the candidate support students to understand the learning target and to monitor their own learning progress?

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate communicates the learning target(s) to students.</td>
<td>Students communicate their understanding of the learning target(s) at an appropriate developmental level.</td>
<td>Students communicate their understanding of the learning target(s) at an appropriate developmental level and why they are important to learn at an appropriate developmental level.</td>
<td>Candidate and students collaborate in defining the learning target(s) and why they are important to learn at an appropriate developmental level.</td>
<td>Candidate and students collaborate in defining the learning target(s) and why they are important to learn at an appropriate developmental level.</td>
</tr>
<tr>
<td>AND</td>
<td>AND</td>
<td>AND</td>
<td>AND</td>
<td>AND</td>
</tr>
<tr>
<td>There is no evidence in the clip(s) or commentary of tools or strategies for students to reflect on what they are doing well and what they need to improve.</td>
<td>In the clip(s) or commentary, candidate refers to one or more tools or strategies for students to reflect on what they are doing well and what they need to improve.</td>
<td>In the clip(s) or commentary, there is evidence that students reflect on what they need to improve in order to reach the learning target(s).</td>
<td>Candidate models the use of one or more tools or strategies to assist students in reflecting on what they are doing well and/or what they need to improve in order to reach the learning target(s).</td>
<td>Candidate and students collaboratively create and use one or more tools or strategies to assist the students in reflecting on what they are doing well and/or what they need to improve in order to reach the learning target(s).</td>
</tr>
</tbody>
</table>
### Rubric 18: Reflecting on Student-Voice Evidence to Improve Instruction

**How does the candidate use student-voice evidence to identify instructional improvements?**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate <strong>collects examples of student self-reflections but provides limited or no analysis of them.</strong></td>
<td>Candidate collects and <strong>analyzes</strong> student self-reflections to identify what students thought they did well and/or needed to improve.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AND</strong></td>
<td>Candidate collects and analyzes student self-reflections to identify what students thought they did well and/or needed to improve.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AND</strong></td>
<td>Candidate <strong>reflects on the quality of the tool or strategy used to collect the student self-reflections.</strong></td>
<td>Candidate collects and analyzes student self-reflections to identify what students thought they did well and/or needed to improve and compares the self-reflections to the performance based on the assessment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AND</strong></td>
<td>Candidate reflects on the quality of the tool or strategy used to collect the student self-reflections.</td>
<td></td>
<td></td>
<td><strong>Level 4 plus:</strong> based on the analysis of student self-reflections, candidate provides a rationale for <strong>any changes to the tools or strategy used to collect the self-reflections</strong> <strong>OR</strong> <strong>why no changes are needed.</strong></td>
</tr>
</tbody>
</table>

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Professional Responsibilities

Refer to the following table for an overview of your professional responsibilities in developing evidence for edTPA. If you are submitting artifacts and commentaries for official scoring, refer to www.edTPA.com for complete and current information before beginning your work. Included here are important information and policies such as submission requirements and deadlines, registration agreements, attestations, permissions, and confidentiality. Whether or not you are submitting for official scoring, you should fulfill the professional responsibilities described below.

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protect confidentiality</td>
<td>To protect confidentiality, please remove your name and use pseudonyms or general references (e.g., “the district”) for your state, school, district, and cooperating teacher. Mask or remove all names on any typed or written material (e.g., commentaries, lesson plans, student work samples) that could identify individuals or institutions. During videorecording, use students’ first names only. To ensure confidentiality of your students and yourself, do not share your video on any publicly accessible platforms or websites (YouTube, Facebook, etc.).</td>
</tr>
<tr>
<td>Acquire permissions</td>
<td>Before you record your classroom instruction, ensure that you have the appropriate permission from the parents/guardians of your students and from adults who appear in the videorecording. Your program will provide you with the procedures and forms needed to obtain these permissions, according to agreements with the school or district in which you are student teaching or completing your internship. If your program does not provide the necessary forms, you may refer to the sample forms found on <a href="http://www.edTPA.com">www.edTPA.com</a>. The release forms are not to be submitted with your materials, but you should follow your campus policy for retaining them.</td>
</tr>
<tr>
<td>Cite sources</td>
<td>Provide citations for the source of all materials that you did not create (e.g., published texts, websites, and material from other educators). List all citations by lesson number at the end of the Planning Commentary. Note: Citations do not count toward the commentary page limit.</td>
</tr>
<tr>
<td>Align instruction with state standards</td>
<td>As part of the assessment, you will document the alignment of your lesson plans with state-adopted academic content standards that are the target of student learning. Refer to the Office of the Superintendent of Public Instruction website for your state to obtain copies of relevant standards for this assessment.</td>
</tr>
</tbody>
</table>
| Follow the guidelines for candidate support at www.edTPA.com | Follow the guidelines for candidate support found at www.edTPA.com as you develop your evidence for edTPA. Although you may seek and receive appropriate support from your university supervisors, cooperating/master teachers, university instructors, or peers during this process, the ultimate responsibility for completing this assessment lies with you. Therefore, when you submit your completed work, you must be able to confirm your adherence with certain statements, such as the following:  
  - I have primary responsibility for teaching the students/class during the learning segment profiled in this assessment.  
  - I have not previously taught this learning segment to the students/class.  
  - The video clips submitted are unedited (continuous) and show me teaching the students/class profiled in the evidence submitted.  
  - The student work included in the documentation is that of my students, completed during the learning segment documented in this assessment.  
  - I am author of the commentaries and other written responses to prompts in this assessment.  
  - Appropriate citations have been made for all materials in the assessment whose sources are from published text, the Internet, or other educators.  |
Secondary Science Context for Learning Information

Use the Context for Learning Information to supply information about your school/classroom context.

About the School Where You Are Teaching

1. In what type of school do you teach? (Type an “X” next to the appropriate description; if “other” applies, provide a brief description.)
   - Middle school: _____
   - High school: _____
   - Other (please describe): _____

2. Where is the school where you are teaching located? (Type an “X” next to the appropriate description.)
   - City: _____
   - Suburb: _____
   - Town: _____
   - Rural: _____

3. List any special features of your school or classroom setting (e.g., charter, co-teaching, themed magnet, remedial course, honors course) that will affect your teaching in this learning segment.

4. Describe any district, school, or cooperating teacher requirements or expectations that might affect your planning or delivery of instruction, such as required curricula, pacing plan, use of specific instructional strategies, or standardized tests.

About the Class Featured in this Learning Segment

1. What is the name of this course?

2. What is the length of the course? (Type an “X” next to the appropriate description; if “other” applies, provide a brief description.)
   - One semester: _____
   - One year: _____
   - Other (please describe): _____

3. What is the class schedule (e.g., 50 minutes every day, 90 minutes every other day)?

4. Is there any ability grouping or tracking in science? If so, please describe how it affects your class.

5. Identify any textbook or instructional program you primarily use for science instruction. If a textbook, please provide the title, publisher, and date of publication.

---

6 If you need guidance when making a selection, reference the NCES locale category definitions (https://nces.ed.gov/surveys/ruraled/definitions.asp) or consult with your placement school administrator.
6. List other resources (e.g., electronic whiteboard, graphing calculators, on-line resources) you use for science instruction in this class.

About the Students in the Class Featured in this Learning Segment

1. Grade-level composition (e.g., all seventh grade; 2 sophomores and 30 juniors):

_________________________________________________________________

2. Number of
   - students in the class: _____
   - males: _____ females: _____

3. Complete the charts below to summarize required or needed supports, accommodations or modifications for your students that will affect your instruction in this learning segment. As needed, consult with your cooperating teacher to complete the charts. Some rows have been completed in italics as examples. Use as many rows as you need.

   Consider the variety of learners in your class who may require different strategies/supports or accommodations/modifications to instruction or assessment. For example, students

   - With Individualized Education Programs (IEPs) or 504 plans
   - With specific language needs
   - Needing greater challenge or support
   - Who struggle with reading
   - Who are underperforming students or have gaps in academic knowledge

   For Assessment Task 3, you will choose work samples from 3 focus students. At least one of these students must have a specified learning need.
### Students with IEPs/504 Plans

<table>
<thead>
<tr>
<th>IEPs/504 Plans: Classifications/Needs</th>
<th>Number of Students</th>
<th>Supports, Accommodations, Modifications, Pertinent IEP Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: Visual processing</td>
<td>2</td>
<td>Close monitoring, large size graph paper</td>
</tr>
</tbody>
</table>

### Students with Specific Language Needs

<table>
<thead>
<tr>
<th>Language Needs</th>
<th>Number of Students</th>
<th>Supports, Accommodations, Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: English language learners with only a few words of English</td>
<td>2</td>
<td>Pre-teach key words and phrases through examples and graphic organizers (e.g., word cluster, manipulatives, visuals)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Have students use pre-taught key words and graphic organizers to complete sentence starters</td>
</tr>
<tr>
<td>Example: Students who speak a variety of English other than that used in textbooks</td>
<td>5</td>
<td>Make connections between the language students bring and the language used in the textbook</td>
</tr>
</tbody>
</table>

### Students with Other Learning Needs

<table>
<thead>
<tr>
<th>Other Learning Needs</th>
<th>Number of Students</th>
<th>Supports, Accommodations, Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: Struggling readers</td>
<td>5</td>
<td>Provide oral explanations for directions</td>
</tr>
</tbody>
</table>
Secondary Science for Washington Evidence Chart

Your evidence must be submitted to the electronic portfolio management system used by your teacher preparation program. Your submission must conform to the artifact and commentary specifications for each task. This section provides instructions for all evidence types as well as a description of supported file types for evidence submission, number of files, response lengths, and other information regarding format specifications. Note that your evidence cannot contain hyperlinked content. Any web content you wish to include as part of your evidence must be submitted as a document file, which must conform to the file format and response length requirements. If you have materials that must be translated into English as per the edTPA Submission Requirements, those translations should be added to the original materials as part of the same file or, if applicable, to the end of the commentary template. There is no page limit for required translations into English.

Planning Task 1: Artifacts and Commentary Specifications

<table>
<thead>
<tr>
<th>What to Submit</th>
<th>Supported File Types</th>
<th>Number of Files</th>
<th>Response Length</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min</td>
<td>Max</td>
<td></td>
</tr>
<tr>
<td>Part A: Context for Learning Information (template</td>
<td>.doc; .docx; .odt;</td>
<td>1</td>
<td>1</td>
<td>No more than 4 pages, including prompts</td>
</tr>
<tr>
<td>provided)</td>
<td>.pdf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B: Lesson Plans for Learning Segment</td>
<td>.doc; .docx; .odt;</td>
<td>1</td>
<td>1</td>
<td>No more than 4 pages per lesson</td>
</tr>
<tr>
<td></td>
<td>.pdf</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Part C: Instructional Materials</td>
<td>.doc; .docx; .odt;</td>
<td>1</td>
<td>1</td>
<td>No more than 5 pages of KEY instructional materials</td>
</tr>
<tr>
<td></td>
<td>.pdf</td>
<td></td>
<td></td>
<td>per lesson plan</td>
</tr>
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<td></td>
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</tr>
<tr>
<td>Part D: Assessments</td>
<td>.doc; .docx; .odt;</td>
<td>1</td>
<td>1</td>
<td>No limit</td>
</tr>
<tr>
<td></td>
<td>.pdf</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Part E: Planning Commentary (template provided)</td>
<td>.doc; .docx; .odt;</td>
<td>1</td>
<td>1</td>
<td>No more than 11 pages of commentary, including</td>
</tr>
<tr>
<td></td>
<td>.pdf</td>
<td></td>
<td></td>
<td>prompts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Instruction Task 2: Artifacts and Commentary Specifications

<table>
<thead>
<tr>
<th>What to Submit</th>
<th>Supported File Types</th>
<th>Number of Files</th>
<th>Response Length</th>
<th>Additional Information</th>
</tr>
</thead>
</table>
| Part A: Video Clips<sup>7</sup> | flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v | 2 3 | Running time no more than 10 minutes each (but not less than 3 minutes combined)  If needed for student-voice evidence, an additional video clip no more than 5 minutes | - Before you record your video, obtain permission from the parents/guardians of your students and from adults who appear on the video.  
- Refer to Instruction Task 2, What Do I Need to Do? for video clip content and requirements.  
- When naming each clip file, include the number of the lesson shown in the video clip.  

**IMPORTANT:** If your tools and/or strategies to elicit student expression of the following are not evident in the selected video clip(s), submit an additional video clip with that focus:  
- Understanding of the learning target and why it is important  
- Understanding of what they are doing well and what they need to improve to reach the learning target (if this is done through a written tool for the lesson(s) seen in the clip(s), just describe the tool in the commentary) |

---

<sup>7</sup> **Video file size requirements:** The target file size is 200–300 MB or less. The Pearson ePortfolio System file size limit is 500 MB. Please note that each integrated platform provider portfolio system may have additional constraints or requirements regarding video formats and file sizes. You may need to use video tools to compress or transcode your video into smaller file sizes to facilitate uploading of the video. Refer to Recommended Video Formats and Settings on www.edtpa.com for the current requirements.
<table>
<thead>
<tr>
<th>What to Submit</th>
<th>Supported File Types</th>
<th>Number of Files</th>
<th>Response Length</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part B: Instruction Commentary</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No more than 7 pages of commentary, including prompts</td>
<td>Use Arial 11-point type.</td>
</tr>
<tr>
<td>(template provided)</td>
<td></td>
<td>1</td>
<td>If needed, no more than 2 additional pages of supporting documentation</td>
<td>Single space with 1” margins on all sides.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IMPORTANT:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>▪ Insert documentation at the end of the commentary file if</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>▪ you or the students are using graphics, texts, or images that</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>are not clearly visible in the video</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>▪ you chose to submit a transcript for occasionally inaudible</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>portions of the video</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>▪ If submitting documentation, include the video clip number, lesson</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>number, and explanatory text (e.g., “Clip 1, lesson 2, text from a</td>
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<td>whiteboard that is not visible in the video,” “Clip 2, lesson 4,</td>
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<td>transcription of a student response that is inaudible”).</td>
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</table>
### Assessment Task 3: Artifacts and Commentary Specifications

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<tr>
<th>What to Submit</th>
<th>Supported File Types</th>
<th>Number of Files</th>
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<th>Additional Information</th>
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</table>
| Part A: Student Work Samples\(^8\)   | For written work samples: .doc; .docx; .odt; .pdf         | 3               | 3               | - Use correction fluid, tape, or a felt-tip marker to mask or remove students' names, your name, and the name of the school before copying/scanning any work samples. If your students' writing is illegible, write a transcription directly on the work sample.  
- On each work sample, indicate the student number (Student 1 Work Sample, Student 2 Work Sample, or Student 3 Work Sample). If more than one focus student appears in a video or audio work sample, upload the same work sample separately for each focus student who is seen/heard and label appropriately. Describe how to recognize each of the focus students in the clip and provide the label associated with the clip in prompt 1f of the Assessment Commentary.  
- When naming each work sample file, include the student number.  
- If you submit a student work sample or feedback as a video or audio clip and comments made by you or your focus student(s) cannot be clearly heard, do one of the following: 1) attach a transcription of the inaudible comments (no more than 2 additional pages) to the end of the Assessment Commentary; 2) embed quotes with time-stamp references in the commentary response; or 3) insert captions in the video (captions for this purpose will be considered permissible editing). |
|                                    | For audio work samples: flv, asf, wmv, qt, mov, mpg, avi, mp3, wav, mp4, wma |                 |                 |                                                                                                                                                       |
|                                    | For video work samples: flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v |                 |                 |                                                                                                                                                       |

\(^8\) **Video file size requirements:** The target file size is 200–300 MB or less. The Pearson ePortfolio System file size limit is 500 MB. Please note that each integrated platform provider portfolio system may have additional constraints or requirements regarding video formats and file sizes. You may need to use video tools to compress or transcode your video into smaller file sizes to facilitate uploading of the video. Refer to Recommended Video Formats and Settings on [www.edtpa.com](http://www.edtpa.com) for the current requirements.
### Assessment Task 3: Artifacts and Commentary Specifications (continued)

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<th>Response Length</th>
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<tbody>
<tr>
<td>Part B: Evidence of Feedback&lt;sup&gt;9&lt;/sup&gt;</td>
<td>For written feedback not written on the work samples: .doc; .docx; .odt; .pdf</td>
<td>0</td>
<td>4</td>
<td>No page limit for written feedback</td>
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<td></td>
<td>For audio feedback: flv, asf, wmv, qt, mov, mpg, avi, mp3, wav, mp4, wma</td>
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<td></td>
<td>No more than 3 minutes per focus student for video or audio feedback</td>
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<td></td>
<td>For video clips (feedback and/or language use): flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v</td>
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<td></td>
<td>No more than 5 minutes for video evidence of student language use</td>
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- Document the location of your evidence of feedback in the Assessment Commentary.
- If feedback is not included as part of the student work samples or recorded on the video clip(s) from Instruction Task 2, submit only 1 file for each focus student—a document, video file, OR audio file—and label the file with the corresponding student number (Student 1 Feedback, Student 2 Feedback, or Student 3 Feedback).
- If more than one focus student appears in a video or audio clip of feedback, upload the same clip separately for each focus student who is seen/heard and label appropriately.
- When naming each feedback file, include the student number.
- If you submit a student work sample or feedback as a video or audio clip and comments made by you or your focus student(s) cannot be clearly heard, do one of the following: 1) attach a transcription of the inaudible comments (no more than 2 additional pages) to the end of the Assessment Commentary; 2) embed quotes with time-stamp references in the commentary response; or 3) insert captions in the video (captions for this purpose will be considered permissible editing).
- For Academic Language – If you choose to submit a video clip of student language use, it should be no more than 5 minutes. You may identify a portion of a clip provided for Instruction Task 2 or submit an entirely new clip.

<sup>9</sup> **Video file size requirements:** The target file size is 200–300 MB or less. The Pearson ePortfolio System file size limit is 500 MB. Please note that each integrated platform provider portfolio system may have additional constraints or requirements regarding video formats and file sizes. You may need to use video tools to compress or transcode your video into smaller file sizes to facilitate uploading of the video. Refer to Recommended Video Formats and Settings on www.edtpa.com for the current requirements.
## Assessment Task 3: Artifacts and Commentary Specifications (continued)

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<tr>
<td>Part C: Assessment Commentary (template provided)</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>1</td>
<td>No more than 12 pages of commentary, including prompts Plus no more than 5 additional pages for the chosen assessment if necessary, no more than 2 additional total pages of transcription of video/audio evidence for a work sample and feedback, and/or video evidence of language use and self-reflection</td>
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<tr>
<td>Part D: Evaluation Criteria</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
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<td>No limit</td>
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### Assessment Task 3: Artifacts and Commentary Specifications (continued)

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<tbody>
<tr>
<td>Part E: Student Self-Reflections</td>
<td>For written self-reflections: .doc; .docx; .odt; .pdf For video self-reflections: flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v</td>
<td>0</td>
<td>3</td>
<td>Use correction fluid, tape, or a felt-tip marker to <strong>mask or remove students’ names, your name, and the name of the school before copying/scanning the self-reflections</strong>. If your students’ writing is illegible, please write a transcription directly on the self-reflection.</td>
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<td>On each self-reflection, indicate the student number (Student 1 Self-Reflection, Student 2 Self-Reflection, or Student 3 Self-Reflection). If more than one focus student appears in a video self-reflection, upload the same self-reflection separately for each focus student who is seen and label appropriately. Describe how to recognize each of the focus students in the clip and provide the label associated with the clip in prompt 1f of the Assessment Commentary.</td>
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<td>When naming each student self-reflection file, include the corresponding student number.</td>
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<td>If you submit a self-reflection as a video clip and there are audio portions that cannot be clearly heard, do one of the following: 1) attach a transcription of the inaudible comments <strong>(no more than 2 additional pages)</strong> to the end of the Assessment Commentary; 2) embed quotes with time-stamp references in the commentary response; or 3) insert captions in the video (captions for this purpose will be considered permissible editing).</td>
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<td><strong>IMPORTANT:</strong> Do not submit an additional file for Part E if student self-reflections are embedded in the student work samples from Part A.</td>
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**Video file size requirements:** The target file size is 200–300 MB or less. The Pearson ePortfolio System file size limit is 500 MB. Please note that each integrated platform provider portfolio system may have additional constraints or requirements regarding video formats and file sizes. You may need to use video tools to compress or transcode your video into smaller file sizes to facilitate uploading of the video. Refer to Recommended Video Formats and Settings on www.edtpa.com for the current requirements.
Secondary Science for Washington
Glossary

Source citations for glossary entries are provided as footnotes in this section.

**academic language:** Oral and written language used for academic purposes. Academic language is the means by which students develop and express content understandings. Academic language represents the language of the discipline that students need to learn and use to participate and engage in the content area in meaningful ways. There are **language demands** that teachers need to consider as they plan to support student learning of content. These **language demands** include **language functions, vocabulary, discourse, and syntax.**

- **language demands:** Specific ways that academic language (functions, vocabulary and/or symbols, syntax, discourse) is used by students to participate in learning tasks through reading, writing, listening, and/or speaking to demonstrate their disciplinary understanding.

- **language functions:** The content and language focus of the learning task, represented by the active verbs within the learning outcomes. Common language functions in science include **analyzing** scientific data; **interpreting** written investigative procedures, diagrams, figures, tables, graphs, and dense authoritative text; **explaining** models of scientific phenomena; **predicting** from models and data from scientific inquiries; **justifying** conclusions with scientific evidence; and so on.

- **vocabulary:** Includes words and phrases that are used within disciplines including: (1) words and phrases with subject-specific meanings that differ from meanings used in everyday life (e.g., table); (2) general academic vocabulary used across disciplines (e.g., compare, analyze, evaluate); and (3) subject-specific words defined for use in the discipline.

- **discourse:** Discourse includes the structures of written and oral language, as well as how members of the discipline talk, write, and participate in knowledge construction. Discipline-specific discourse has distinctive features or ways of structuring oral or written language (text structures) that provide useful ways for the content to be communicated. In science, language structures include symbolic representations such as chemical equations (which can be translated into words), graphic and tabular representations (which are shorthand language for complex sets of data), lists (e.g., materials lists), and narrative (e.g., analysis and conclusions sections in a

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lab report). If the function is to draw conclusions, then appropriate structures could include charts of investigative results or sentence starters to structure an analysis such as “The results of the investigation show…,” “This data suggests that…”

- **syntax**: The set of conventions for organizing symbols, words, and phrases together into structures (e.g., sentences, graphs, tables).

- **language supports**: The scaffolds, representations, and pedagogical strategies teachers provide to help learners understand, use, and practice the concepts and language they need to learn within disciplines (Santos, Darling-Hammond, Cheuk, 2012). The language supports planned within the lessons in edTPA should directly support learners to understand and use identified language demands (function, vocabulary and/or symbols, syntax or discourse) to deepen content understandings.

**aligned**: Consistently addressing the same/similar learning outcomes for students.

**analysis/analyze**: Analysis means to “break apart” and examine the pieces, trends, or patterns. Analysis depends on the interpretations the candidate makes of experience and examines why the elements or events of that experience are the way they are. Analysis must include an interpretation of the evidence submitted and conclusions based on evidence. It shows the scorer the thought processes the candidate used to arrive at the conclusions made about the learning segment. Analysis is called for when a prompt uses words such as how, why, or in what way(s).

**analytical writing**: A type of writing used to review data or other evidence, with an interpretation of results supported by concrete evidence.

**artifacts**: Authentic work completed by you and your students including lesson plans, copies of instructional and assessment materials, video clips of your teaching, and student work samples and self-reflections. Artifacts are submitted as part of your evidence.

**assessment (formal and informal)**: “[R]efer[s] to all those activities undertaken by teachers and by their students . . . that provide information to be used as feedback to modify the teaching and learning activities” for both students and teachers. Assessments provide evidence of students’ prior knowledge, thinking, or learning in order to evaluate what students understand and how they are thinking at a given point in time for the purpose of promoting student learning. Some examples of informal assessments are student questions and responses during instruction and teacher observations of students as they work or perform. Some examples of formal assessments are quizzes, homework assignments, lab reports, journals, projects, and performance tasks.

**assets (knowledge of students)**:

- **personal**: refers to specific background information that students bring to the learning environment. Students may bring interests, knowledge, everyday experiences, family backgrounds, and so on, which a teacher can draw upon to support learning.

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- **cultural**: refers to the cultural backgrounds and practices that students bring to the learning environment, such as traditions, languages and dialects, worldviews, literature, art, and so on, that a teacher can draw upon to support learning.

- **community**: refers to common backgrounds and experiences that students bring from the community where they live, such as resources, local landmarks, community events and practices, and so on, that a teacher can draw upon to support learning.

**central focus**: A description of the important understandings and core concepts that you want students to develop within the learning segment. The central focus should go beyond a list of facts and skills or procedures, align with content standards for one or more learning target(s), and address the subject-specific components in the learning segment. For example, the subject-specific components for secondary science are conceptual understanding, use of scientific practices during inquiry, and evidence-based explanations of or reasonable predictions about a scientific phenomenon. A central focus for the learning segment might be inheritance of traits. The learning segment would focus on conceptual understandings of genotypes, phenotypes, dominant genes, and so on, an investigation of how relationships between genotypes are expressed in phenotypes, and an explanation of how these relationships would affect distributions of phenotypes in a population.

**commentary**: Submitted as part of each task and, along with artifacts, make up your evidence. The commentaries should be written to explain the rationale behind your teaching decisions and to analyze and reflect on what you have learned about your teaching practice and your students’ learning. The commentaries will guide the scorers in interpreting the evidence submitted.

**communication**: Expression of understandings through oral, written, or nonverbal means, appropriate to the student’s developmental level and, if applicable, routine use of assistive communication technologies.

**data**: Information that is collected during an experiment or investigation to better understand a real-world phenomenon or to evaluate a prediction. This includes quantitative data—such as temperature values, numbers of offspring, calculated relationships between variables from empirical investigations or mathematical models—or qualitative data—such as color changes, descriptions of crystal formation, descriptions of relationships between variables based on models or maps.

**description**: Used when stating, listing, or providing details that are accurate and precise enumeration and/or explanation; clear and logical ordering of the elements or features of the event, person, concept, or strategy described; supporting features of elements that would allow an outsider to visualize whatever is provided as evidence.

**descriptive writing**: A type of writing used to state, list, or provide details so the scorer can visualize the features of an event, person, concept, or strategy. Descriptive writing sets the scene.

**engaging students in learning**: Using instructional and motivational strategies that promote students’ active involvement in learning tasks that increase their knowledge, skills, and abilities related to specific learning target(s). Engagement in learning contrasts with student participation in learning tasks where students complete the learning tasks but make little meaning because of the design and/or implementation of the task.
evaluation criteria: Performance indicators or dimensions that are used to assess evidence of student learning. They indicate the qualities by which levels of performance can be differentiated and that anchor judgments about the learner’s degree of success on an assessment. Evaluation criteria can be represented in various ways, such as a rubric, a point system for different levels of performance, or rules for awarding full versus partial credit. Evaluation criteria may examine correctness/accuracy, cognitive complexity, sophistication or elaboration of responses, or quality of explanations.

evidence (candidate): Consists of artifacts that document how you planned and implemented instruction AND commentaries that explain your plans and what is seen in the videorecording(s) or examine what you learned about your teaching practice and your students’ learning. Evidence should demonstrate your ability to design lesson plans with instructional supports that deepen student learning, use knowledge of your students to inform instruction, foster a positive learning environment that promotes student learning, monitor and assess student progress toward learning target(s), and analyze your teaching effectiveness. Your evidence must be submitted electronically using the electronic portfolio management system used by your teacher preparation program.

evidence-based explanation: An evidence-based explanation of a phenomenon includes a claim (statement) about the underlying cause using scientific concepts or principle(s), consistent with scientific evidence and/or data.

evidence (scientific): Information about the phenomenon from systematic observations or models (conceptual, mathematical, physical, and empirical). Evidence can be generated by the students or provided from a trustworthy source that provides some assurance that the evidence collected meets scientific standards. If mathematical models are used, the analysis should focus on patterns of relationships between variables and not solutions for problem sets. Examples of a variety of evidence include: geological maps, pressures and temperatures collected via computer simulation in gas law experimentation; photographs used in food web organization; length measurements of bacteria, nuclei, and mitrochondria using electron micrographs.

learning environment: The designed physical and emotional context, established and maintained throughout the learning segment to support a positive and productive learning experience for students.

learning segment: A set of 3–5 lessons that build one upon another toward a central focus, with a clearly defined beginning and end.

learning target(s): “[D]efines academic success, what we want students to know and be able to do.”17 Generally written in student-friendly language so the learner can articulate and demonstrate learning.

learning task: Purposefully designed activities in which students engage in learning—not just participate—to meet the lesson’s learning target(s). It includes activities, discussions, or other modes of participation that engage students to develop, practice, and apply skills and knowledge related to a specific learning goal. Learning tasks may be scaffolded to connect prior knowledge to new knowledge and often include formative assessment.

lesson plan: A plan for student learning. Three to five lesson plans comprise a learning segment.

patterns of learning: Includes both quantitative and qualitative patterns (or consistencies) for different groups of students or individuals. Quantitative patterns indicate in a numerical way the information understood from the assessment (e.g., 10 out of 15 students or 20% of the students). Qualitative patterns include descriptions of understandings, misunderstandings, and/or partial understandings that could explain the quantitative patterns (e.g., “given that most students were able to . . . it seems that they understand”).

planned supports: Instructional strategies, learning tasks and materials, and other resources deliberately designed to facilitate student learning of the central focus.

preconceptions: Student ideas about the physical and biological worlds and how they work or about the nature of science, based on their observations, experiences, and what they have heard.

prior academic learning and prerequisite skills: Includes students’ content knowledge and skills as well as academic experiences developed prior to the learning segment.

rapport: A close and harmonious relationship in which the people or groups understand each other’s feelings or ideas and communicate well with each other.

respect: A positive feeling of esteem or deference for a person and specific actions and conduct representative of that esteem. Respect can be a specific feeling of regard for the actual qualities of the one respected. It can also be conduct in accord with a specific ethic of respect. Rude conduct is usually considered to indicate a lack of respect, disrespect, whereas actions that honor somebody or something indicate respect. Note that respectful actions and conduct are culturally defined and may be context dependent.

rubrics: Subject-specific evaluation criteria used to score your performance on edTPA. These rubrics are included in the handbook following the directions for each task. The descriptors in the five-level rubrics address a wide range of performance, beginning with the knowledge and skills of a novice not ready to teach (Level 1) and extending to the advanced practices of a highly accomplished beginner (Level 5).

scientific practices through inquiry: The practices, as defined by the Next Generation Science Standards, focus on eight key components:

- Asking questions
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

**student voice:** Ongoing reflective self-assessment expressed in the words of the learner for the purpose of improving teaching and learning. In addition to student work, student voice is important evidence of student understanding of his/her own learning process and progress toward the learning target(s). Examples of student-voice evidence might include the following:

- Evidence that students know the learning target(s) and what is required to meet them.
  - Students explain the learning target(s) in their own words, written or oral, rather than as worded by the teacher.
  - Students express why the learning target(s) are important.
  - Students describe how they will demonstrate that they have reached the targets.
- Evidence that students know how to monitor their progress toward the learning target(s) using tools (checklists, rubrics, etc.).
  - Students know and discuss the progression of learning that guides their progress.
  - Students compare their work with a tool that clarifies the progression of learning.
  - Students explain what they are doing well, what they need to improve, and what they need to do to make the identified improvements.
- Evidence that students know how to access resources and additional support when needed.
  - Students articulate the range of resources available to them to help them reach the learning target(s).
  - Students explain how and why particular resources will help them reach the learning target(s).

**tools and strategies for student-voice evidence:** Tools and strategies for prompting students to communicate their understanding of either the learning targets or their own learning progress. Tools are artifacts (e.g., graphic organizers, rubrics, checklists). Strategies are plans or methods (e.g., routines for unpacking learning targets or self-monitoring of learning progress, peer review opportunities, teacher or peer feedback, letter to a younger student explaining a learning target) for eliciting student-voice evidence.

**variety of learners:** Students in your class who may require different strategies or support. These students include but are not limited to students with IEPs or 504 plans, English language learners, struggling readers, underperforming students or those with gaps in academic knowledge, and/or gifted students.