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, 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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Preface

The edTPA Elementary Education: Mathematics with Literacy Task 4 assessment provides opportunities for teaching candidates to demonstrate their ability to teach both mathematics and literacy in the elementary grades.

This handbook includes all materials, directions, prompts, and rubrics for the four tasks within the edTPA Elementary Education: Mathematics with Literacy Task 4 assessment—Tasks 1–3 are Elementary Mathematics Tasks and Task 4 is an Elementary Literacy Assessment Task.

All four tasks are requirements for licensure in your state. As you prepare your evidence for these tasks, you will document and demonstrate your teaching and your analysis of student learning.

Faculty in your preparation program will advise you on when Tasks 1–3 and Task 4 need to be completed to meet program requirements. All tasks must be completed within a formal student teaching experience wherein you have regular opportunities to teach lessons and carry out assessments with students. Tasks 1–3 or Task 4 may be completed in either order; however, you must submit all final materials in the same scoring/reporting window as directed by your program.

Tasks 1–3: Elementary Mathematics Tasks—For the Elementary Mathematics Tasks, you will document a cycle of teaching that includes planning 3–5 lessons, videorecording your teaching, and analyzing your teaching and your students’ learning, with attention to students’ academic language development and use.

Task 4: Elementary Literacy Assessment Task—For the Elementary Literacy Task 4, you will focus on analysis of your students’ learning in literacy (drawn from a learning segment of 3–5 lessons) and a re-engagement lesson that addresses your students’ literacy learning needs.

If your program requires you to submit artifacts and commentaries for official scoring, refer to 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 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.

You will find additional support materials to complete these assessments on the website and from your preparation program advisors.
Introduction to edTPA
Elementary Education: Mathematics with Literacy Task 4

Purpose

The purpose of edTPA Elementary Education: Mathematics with Literacy Task 4, a nationally available performance-based assessment, is to measure novice teachers’ readiness to teach both mathematics and literacy. 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

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 Elementary Education: Mathematics with Literacy Task 4 assessment is composed of four tasks:

1. Planning for Mathematics Instruction and Assessment
2. Instructing and Engaging Students in Mathematics Learning
3. Assessing Students’ Mathematics Learning
4. Assessing Students’ Literacy Learning

The edTPA Elementary Education: Mathematics with Literacy Task 4 assessment is designed for teacher education programs that plan to implement the full edTPA in Elementary Mathematics (Tasks 1–3) and also require candidates to demonstrate their readiness to teach by completing the Elementary Literacy Assessment Task (Task 4).
For the Elementary Mathematics Tasks 1–3, you will first plan 3–5 consecutive mathematics lessons referred to as a learning segment. Consistent with the *Principles and Standards for School Mathematics* (2000), a learning segment prepared for edTPA Task 1 should reflect a balanced approach to mathematics. This means your segment should include learning tasks where students have opportunities to develop:

- conceptual understanding
- procedural fluency
- mathematical reasoning and/or problem-solving skills
- precise communication skills

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.

For the Elementary Literacy Assessment Task 4, you will develop or adapt a relevant assessment of student learning, analyze student work, and design re-engagement instruction to develop students’ literacy learning. Consistent with recommendations provided by the International Reading Association (2010) for literacy professionals, this task should reflect a balanced approach to literacy. Task 4 centers on two high-leverage teaching practices: using assessments to analyze student learning and re-engaging students to develop their understanding of a specific essential literacy strategy for comprehending or composing text and the related skills that directly support that strategy.

**The edTPA Tasks and the Cycle of Effective Teaching**

The edTPA tasks represent a cycle of effective teaching (i.e., teaching that is focused on student learning). The edTPA Elementary Mathematics Tasks 1–3 begin at the planning stage of the cycle, and the Elementary Literacy Assessment Task 4 begins at the assessment stage of the cycle to inform further planning. Mathematics Planning Task 1 documents your intended teaching, Mathematics Instruction Task 2 documents your enacted teaching, and Mathematics Assessment Task 3 documents the impact of your teaching on student learning.

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1 The *Standards for Reading Professionals* can be found at [http://www.literacyworldwide.org/get-resources/standards/standards-for-reading-professionals](http://www.literacyworldwide.org/get-resources/standards/standards-for-reading-professionals).

2 Re-engage means to support students to revisit and review a topic with a different set of strategies, representations, and/or focus to develop understandings and/or correct misconceptions.
The four tasks and the evidence you provide for each are framed by your understandings of your students and their learning. As you develop, document, teach, and assess your lessons, you 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 mathematics. 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, and student work samples.

- **Commentaries** are your opportunity to describe your artifacts, explain the rationale behind their choice, and analyze what you have learned about your teaching practice and your students’ 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 Elementary Education: Mathematics with Literacy Task 4 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 four tasks of the edTPA Elementary Education: Mathematics with Literacy Task 4 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
- **Elementary Mathematics Context for Learning Information**: prompts used to collect information about your school/classroom context for the Elementary Mathematics learning segment
- **Elementary Literacy Task 4 Context for Learning Information**: prompts used to collect information about the school/classroom context for the Elementary Literacy Task 4 learning segment
- **Elementary Literacy Task 4 Learning Segment Overview**: a template for documenting the central focus, content standards, objectives, and assessments associated with the Elementary Literacy learning segment
- **Elementary Education: Mathematics with Literacy Task 4 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 Elementary Education: Mathematics with Literacy Task 4 Glossary.
You should review the *Making Good Choices* document and the *Making Good Choices Addendum for Elementary Education: Mathematics with Literacy Task 4* 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 Mathematics Instruction Task 2 and Mathematics 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 Elementary Education: Mathematics with Literacy Task 4 Tasks Overview

Mathematics Planning Task 1: Planning for Instruction and Assessment

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<tr>
<td>► Select one class as a focus for this assessment.</td>
<td>□ Part A: Context for Learning Information</td>
<td>Mathematics 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 Mathematical Understandings</td>
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<tr>
<td>► Identify a learning segment to plan, teach, and analyze student learning.</td>
<td>□ Part C: Instructional Materials</td>
<td>Rubric 2: Planning to Support Varied Student Learning Needs</td>
</tr>
<tr>
<td>Your learning segment should include 3–5 consecutive mathematics lessons.</td>
<td>□ Part D: Assessments</td>
<td>Rubric 3: Using Knowledge of Students to Inform Teaching and Learning</td>
</tr>
<tr>
<td>► Determine a central focus for your learning segment. The central focus should support students to develop conceptual understanding, procedural fluency, AND mathematical reasoning or problem-solving skills.</td>
<td>□ Part E: Planning Commentary</td>
<td>Rubric 4: Identifying and Supporting Language Demands</td>
</tr>
<tr>
<td>► Write and submit a lesson plan for each lesson in the learning segment.</td>
<td></td>
<td>Rubric 5: Planning Assessments to Monitor and Support Student Learning</td>
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<tr>
<td>► Select and submit key instructional materials needed to understand what you and the students will be doing.</td>
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<tr>
<td>► Choose one language function and other language demands important to understanding elementary mathematics in your learning segment. Identify a learning task where students are supported to use this language.</td>
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<tr>
<td>► Respond to commentary prompts prior to teaching the learning segment.</td>
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<tr>
<td>► Submit copies of all written assessments and/or clear directions for any oral or performance assessments from the learning segment.</td>
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### Mathematics Instruction Task 2: Instructing and Engaging Students in Learning

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<th>What to Submit</th>
<th>Evaluation Rubrics</th>
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<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>Mathematics Instruction Rubrics</td>
</tr>
<tr>
<td>► Identify lessons from the learning segment you planned in Mathematics Planning Task 1 to be videorecorded. You should choose lessons that show you interacting with students to develop their understanding of mathematics concepts.</td>
<td>► Part B: Instruction Commentary</td>
<td>Rubric 6: Learning Environment</td>
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<td>► Videorecord your teaching and select 1 or 2 video clip(s) (no more than 15 minutes total, but not less than 3 minutes).</td>
<td></td>
<td>Rubric 7: Engaging Students in Learning</td>
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<td>► Analyze your teaching and your students’ learning in the video clip(s) by responding to commentary prompts.</td>
<td></td>
<td>Rubric 8: Deepening Student Learning</td>
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<td>Rubric 9: Subject-Specific Pedagogy: Using Representations</td>
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<td>Rubric 10: Analyzing Teaching Effectiveness</td>
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# Mathematics Assessment Task 3: Assessing Student Learning

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<tr>
<td>Select 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>Assessment Rubrics</td>
</tr>
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<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>
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<td>Collect and analyze student work from the selected assessment 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 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 from the 3 focus students to illustrate patterns in student understanding across the class.</td>
<td></td>
<td>Rubric 14: Analyzing Students’ Language Use and Mathematics 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 Mathematics Instruction Task 2, (2) an additional video clip of one or more students using language within the learning segment, AND/OR (3) the student work samples from Mathematics Assessment Task 3.</td>
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<tr>
<td>Analyze evidence of student learning and plan for next steps by responding to commentary prompts.</td>
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# Literacy Assessment Task 4: Assessing Students’ Literacy Learning

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<th>What to Do</th>
<th>What to Submit</th>
<th>Evaluation Rubrics</th>
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</thead>
<tbody>
<tr>
<td>► Select <strong>one</strong> class as a focus for this assessment.</td>
<td>□ Part A: Elementary Literacy Task 4 Context for Learning Information</td>
<td><strong>Literacy Assessment Rubrics</strong></td>
</tr>
<tr>
<td>► Provide relevant context information and a learning segment overview.</td>
<td>□ Part B: Elementary Literacy Task 4 Learning Segment Overview</td>
<td><strong>Rubric 16: Analyzing Whole Class Understandings</strong></td>
</tr>
<tr>
<td>► Identify a learning segment of <strong>3–5 consecutive literacy lessons</strong>.</td>
<td>□ Part C: Literacy Formative Assessment</td>
<td><strong>Rubric 17: Analyzing Individual Student Work Samples</strong></td>
</tr>
<tr>
<td>► Identify a central focus. The central focus should support students to develop an essential literacy strategy for comprehending or composing text and related skills that directly support that strategy.</td>
<td>□ Part D: Evaluation Criteria for Formative Assessment</td>
<td><strong>Rubric 18: Using Evidence to Reflect on Teaching</strong></td>
</tr>
<tr>
<td>► Develop or adapt a formative assessment from the learning segment that will allow you to assess whole class learning. The assessment should provide opportunities for students to demonstrate their understanding of the essential literacy strategy for comprehending or composing text and related skills that directly support that strategy.</td>
<td>□ Part E: Student Literacy Work Samples (from Learning Segment)</td>
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<tr>
<td>► Submit a blank copy of the assessment used to evaluate student performance.</td>
<td>□ Part F: Student Work from Re-engagement Lesson</td>
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</tr>
<tr>
<td>► Define and submit the evaluation criteria you will use to analyze student learning.</td>
<td>□ Part G: Literacy Task 4 Assessment Commentary</td>
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<tr>
<td>► Summarize the class performance on the formative assessment completed during the learning segment.</td>
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<tr>
<td>► Analyze 3 focus students’ work samples to identify the targeted learning objective/goal for the re-engagement lesson.</td>
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<tr>
<td>► Write a re-engagement lesson that develops student understanding of the targeted learning objective/goal.</td>
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<tr>
<td>► Implement the lesson with the 3 focus students individually, in a small group, or with the whole class.</td>
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<tr>
<td>► Collect and submit the work samples from the re-engagement lesson for the 3 focus students.</td>
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<tr>
<td>► Evaluate the effectiveness of the re-engagement lesson.</td>
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The three Elementary Mathematics Tasks begin on the next page of this handbook. For the Elementary Mathematics Tasks, you will document a cycle of teaching (for a learning segment of 3–5 lessons) that includes planning, instruction, and assessment of student learning, and analysis of your teaching, with attention to students’ academic language development and use.

The three Elementary Mathematics Tasks can be completed before or after you complete the Elementary Literacy Assessment Task 4, but materials for ALL tasks must be submitted for official scoring during the same scoring/submission window.

Check with your preparation program advisor before completing or submitting your edTPA evidence.
Mathematics Planning Task 1: Planning for Mathematics Instruction and Assessment

What Do I Need to Think About?

In Mathematics 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 elementary mathematics 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 Tasks 1–3.

- **Provide context information.** The Elementary Mathematics 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 the 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.

- **Identify a central focus.** Identify the central focus along with the content standards and objectives you will address in the learning segment. The central focus should support students in developing
  - conceptual understanding,
  - procedural fluency, AND
  - mathematical reasoning or problem-solving skills.
Identify and plan to support language demands. Select a key language function from your learning objectives. 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 objectives associated with the content standards
- Informal and formal assessments used 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 Mathematics Planning Commentary and deleted from your plans.

Respond to the commentary prompts listed in the Mathematics 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 Mathematics Instruction Task 2 and Mathematics Assessment Task 3 Commentaries.

Select and submit key instructional materials 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 Mathematics Planning Commentary. Note: Citations do not count toward the commentary page limit.
See the Mathematics Planning Task 1: Artifacts and Commentary Specifications in the Elementary Education: Mathematics with Literacy Task 4 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 Mathematics 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 “Mathematics Planning Commentary” below for directions)

Mathematics Planning Commentary

In Mathematics Planning Task 1, you will write a commentary, responding to the prompts below. Your commentary should be no more than 9 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 objectives within your learning segment address
      - conceptual understanding,
      - procedural fluency, AND
      - mathematical reasoning or problem-solving skills.
   c. Explain how your plans build on each other to help students make connections between
      - concepts,
      - computations/procedures, AND
      - mathematical reasoning or problem-solving strategies to build understanding of mathematics.
2. Knowledge of Students to Inform Teaching

For each of the prompts below (2a–c), 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—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?

c. Mathematical dispositions related to the central focus—What do you know about the extent to which your students
  - perceive mathematics as “sensible, useful, and worthwhile”
  - persist in applying mathematics to solve problems
  - believe in their own ability to learn mathematics

3. Supporting Students’ Mathematics Learning

Respond to prompts below (3a–c). To support your justifications, refer to the instructional materials and lesson plans you have included as part of Mathematics 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; personal, cultural, and community assets; and mathematical dispositions (from prompts 2a–c 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, their mathematical dispositions, and research/theory.

b. Describe and justify why your instructional strategies and planned supports are appropriate for the whole class, individuals, and/or 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 mathematical preconceptions, errors, or misunderstandings within your central focus and how you will address them.

---

3 From the Common Core State Standards for Mathematics
4. Supporting Mathematics 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 students’ language assets and needs, identify one language function essential for students to develop conceptual understanding, procedural fluency, mathematical reasoning, or problem-solving skills within your central focus. Listed below are some sample language functions. You may choose one of these or another language function more appropriate for your learning segment:

<table>
<thead>
<tr>
<th>Categorize</th>
<th>Compare/contrast</th>
<th>Describe</th>
<th>Interpret</th>
<th>Justify</th>
</tr>
</thead>
</table>

Please see additional examples and non-examples of language functions in the glossary.

b. Identify a key learning task from your plans that provides students with opportunities to practice using the language function identified above. Identify the lesson in which the learning task occurs. (Give lesson day/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 (vocabulary and/or symbols, function, discourse, syntax).

5. Monitoring Student Learning

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

a. Describe how your planned formal and informal assessments will provide direct evidence of students’ conceptual understanding, computational/procedural fluency, **AND** mathematical reasoning or problem-solving skills **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).

How Will the Evidence of My Teaching Practice Be Assessed?

For Mathematics Planning Task 1, your evidence will be assessed using rubrics 1–5, which appear on the following pages. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, planning, and writing.
# Mathematics Planning Rubrics

## Rubric 1: Planning for Mathematical Understandings

How do the candidate’s plans build students’ conceptual understanding, procedural fluency, AND mathematical reasoning or problem-solving skills?

<table>
<thead>
<tr>
<th>Level 1 <em>4</em></th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate’s plans for instruction <strong>focus solely on</strong> facts and/or procedures with <strong>no connections</strong> to • concepts <strong>OR</strong> • mathematical reasoning or problem-solving skills. <strong>OR</strong> There are <strong>significant content inaccuracies</strong> that will lead to student misunderstandings. <strong>OR</strong> Standards, objectives, and learning tasks and materials are <strong>not aligned with each other</strong>.</td>
<td>Candidate’s plans for instruction <strong>support student learning of facts and procedures with vague connections to</strong> • concepts <strong>OR</strong> • mathematical reasoning or problem-solving skills.</td>
<td>Candidate’s plans for instruction <strong>build on each other</strong> to support learning of facts and procedures with <strong>clear connections to</strong> • concepts <strong>OR</strong> • mathematical reasoning or problem-solving skills.</td>
<td>Candidate’s plans for instruction build on each other to support learning of facts and procedures with <strong>clear and consistent connections to</strong> • concepts <strong>AND</strong> • mathematical reasoning or problem-solving skills.</td>
<td><strong>Level 4 plus:</strong> Candidate explains how they will use learning tasks and materials to <strong>lead students to make clear and consistent connections.</strong></td>
</tr>
</tbody>
</table>

* 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 develop conceptual understanding, procedural fluency, AND mathematical reasoning or problem-solving skills?

<table>
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<tr>
<th>Level 1</th>
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</thead>
<tbody>
<tr>
<td>There is no evidence of planned supports.</td>
<td>Planned supports are loosely tied to learning objectives or the central focus of the learning segment.</td>
<td>Planned supports are tied to learning objectives and the central focus with attention to the characteristics of the class as a whole.</td>
<td>Planned supports are tied to learning objectives 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.</td>
</tr>
</tbody>
</table>
## 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>
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<tr>
<th>Level 1</th>
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<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate’s justification of learning tasks is either missing OR represents a deficit view of students and their backgrounds.</td>
<td>Candidate justifies learning tasks with <strong>limited attention to students’</strong> • prior academic learning OR • personal, cultural, or community assets.</td>
<td>Candidate <strong>justifies why</strong> learning tasks (or their adaptations) are <strong>appropriate using examples of students’</strong> • prior academic learning OR • personal, cultural, or community assets.</td>
<td>Candidate justifies why learning tasks (or their adaptations) are appropriate using examples of students’ • prior academic learning AND • personal, cultural, or community assets.</td>
<td><strong>Level 4 plus:</strong> Candidate’s justification is supported by principles from research and/or theory.</td>
</tr>
</tbody>
</table>

Candidate makes superficial connections to research and/or theory.

Candidate makes connections to research and/or theory.
Rubric 4: Identifying and Supporting Language Demands

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

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<tr>
<th>Level 1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Language demands(^5) identified by the candidate are not consistent with the selected language function(^6) OR task.</td>
<td>Language supports primarily address one language demand (vocabulary and/or symbols, function, discourse, syntax).</td>
<td>General language supports address use of two or more language demands (vocabulary and/or symbols, function, discourse, syntax).</td>
<td>Targeted language supports address use of • vocabulary and/or symbols, • language function, <strong>AND</strong> • one or more additional language demands (discourse, syntax).</td>
<td>Level 4 plus: Language supports are designed to meet the needs of students with different levels of language learning.</td>
</tr>
</tbody>
</table>

\(^5\) Language demands include: language function, vocabulary and/or symbols, syntax, and discourse (organizational structures, text structure, etc.).

\(^6\) Language function refers to the learning outcome (verb) selected in Mathematics Planning Commentary Prompt 4a (e.g., categorize, describe).
### Rubric 5: Planning Assessments to Monitor and Support Student Learning

How are the informal and formal assessments selected or designed to monitor students’ conceptual understanding, procedural fluency, AND mathematical reasoning or problem-solving skills?

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<th>Level 1</th>
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</thead>
<tbody>
<tr>
<td>The assessments <strong>only</strong> provide evidence of students’ procedural skills or factual knowledge.</td>
<td>The assessments <strong>provide limited evidence</strong> to monitor students’ • conceptual understanding, • procedural fluency, <strong>OR</strong> • mathematical reasoning or problem-solving skills <strong>during the learning segment.</strong></td>
<td>The assessments <strong>provide evidence</strong> to monitor students’ • conceptual understanding, • procedural fluency, <strong>AND</strong> • mathematical reasoning or problem-solving skills <strong>during the learning segment.</strong></td>
<td>The assessments provide <strong>multiple forms of evidence</strong> to monitor students’ progress toward developing • conceptual understanding, • procedural fluency, <strong>AND</strong> • mathematical reasoning or problem-solving skills <strong>throughout the learning segment.</strong></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.
Mathematics Instruction Task 2: Instructing and Engaging Students in Learning

What Do I Need to Think About?

In Mathematics 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 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 lesson plans for the learning segment and identify challenging learning tasks in which you and your students are actively engaged. The video clip(s) you select for submission should provide a sample of how you interact with students to develop understanding of mathematical concepts.
- Identify lessons to videorecord.
- Provide 1–2 video clip(s) (together totaling no more than 15 minutes, but not less than 3 minutes) that demonstrate how you engage students in developing understanding of mathematical concepts.
- (Optional) Provide evidence of students’ language use. You may provide evidence of language use with your video clip(s) from Mathematics 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 through the student work samples analyzed in Mathematics 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 clip(s) to submit and verify that the clip(s) 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 clip(s) 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 Mathematics Instruction Commentary section below after viewing the video clip(s).

Determine if additional information is needed to understand what you and the students are doing in the video clip(s). 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 Mathematics Instruction Task 2: Artifacts and Commentary Specifications in the Elementary Education: Mathematics with Literacy Task 4 Evidence Chart for instructions on electronic submission of evidence. This 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?

Mathematics Instruction Commentary

In Mathematics Instruction Task 2, you will write a commentary responding to the prompts below. Your commentary should be no more than 6 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 clip(s)? Identify the lesson(s) by lesson plan number.

2. Promoting a Positive Learning Environment
   Refer to scenes in the video clip(s) 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?

3. Engaging Students in Learning
   Refer to examples from the video clip(s) in your responses to the prompts.
   a. Explain how your instruction engaged students in developing understanding of mathematical concepts.
   b. Describe how your instruction linked students’ prior academic learning and personal, cultural, and community assets with new learning.

4. Deepening Student Learning during Instruction
   Refer to examples from the video clip(s) in your explanations.
   a. Explain how you elicited and built on student responses to promote thinking and develop understandings of mathematical concepts.
   b. Explain how you used representations (manipulatives, models, tools, diagrams, charts) to support students’ understanding and use of mathematical concepts.

5. Analyzing Teaching
   Refer to examples from the video clip(s) 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 Mathematics Instruction Task 2, your evidence will be assessed using rubrics 6–10, which appear on the following pages. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, instruction, and writing.
# Mathematics Instruction Rubrics

## Rubric 6: Learning Environment

How does the candidate demonstrate a respectful learning environment that supports students’ engagement in 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>The clip(s) reveal evidence of disrespectful interactions between teacher and students or between students. OR</td>
<td>The candidate demonstrates respect for students. AND</td>
<td>The candidate demonstrates rapport with and respect for students. AND</td>
<td>The candidate demonstrates rapport with and respect for students. AND</td>
<td>The candidate demonstrates rapport with and respect for students. AND</td>
</tr>
<tr>
<td>Candidate allows disruptive behavior to interfere with student learning.</td>
<td>Candidate provides a learning environment that serves primarily to control student behavior, and minimally supports the learning goals.</td>
<td>Candidate provides a positive, low-risk learning environment that reveals mutual respect among students.</td>
<td>Candidate provides a challenging learning environment that promotes mutual respect among students.</td>
<td>Candidate provides a challenging learning environment that provides opportunities to express varied perspectives and promotes mutual respect among students.</td>
</tr>
</tbody>
</table>
### Rubric 7: Engaging Students in Learning

**How does the candidate actively engage students in developing understanding of mathematical concepts?**

<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><strong>Students are participating in tasks that are vaguely or superficially related to the central focus.</strong></td>
<td>Students are participating in learning tasks focusing primarily on mathematical skills or procedures with little attention to developing understanding of mathematical concepts.</td>
<td>Students are engaged in learning tasks that address understanding of mathematical concepts.</td>
<td>Students are engaged in learning tasks that develop understanding of mathematical concepts.</td>
<td>Students are engaged in learning tasks that deepen and extend their understanding of mathematical concepts.</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 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>
</tr>
</tbody>
</table>
### Rubric 8: Deepening Student Learning

**How does the candidate elicit responses to promote thinking and develop understanding of mathematical concepts?**

<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 does most of the talking and students provide few responses. <strong>OR</strong> Candidate responses include significant content inaccuracies that will lead to student misunderstandings.</td>
<td>Candidate primarily asks surface-level questions and evaluates student responses as correct or incorrect.</td>
<td>Candidate elicits student responses related to mathematical reasoning or problem solving to develop understanding of a mathematical concept.</td>
<td>Candidate elicits and builds on students' mathematical reasoning or problem solving to explicitly portray, extend, or clarify a mathematical concept.</td>
<td>Level 4 plus: Candidate facilitates interactions among students to develop understanding of a mathematical concept.</td>
</tr>
</tbody>
</table>
**Rubric 9: Subject-Specific Pedagogy: Using Representations**

How does the candidate use representations to develop students’ understanding of mathematical concepts?

<table>
<thead>
<tr>
<th>Level 1</th>
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<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate stays focused on facts or procedures with little or no attention to mathematical concepts. OR Materials used in the clips include significant content inaccuracies that will lead to student misunderstandings.</td>
<td>Candidate makes vague or superficial use of representations to help students understand mathematical concepts.</td>
<td>Candidate uses representations in ways that help students understand mathematical concepts.</td>
<td>Candidate provides opportunities for students to use representations in ways that deepen student understanding of mathematical concepts.</td>
<td>Level 4 plus: Candidate facilitates interactions among students so they develop or apply representations in ways that deepen and extend their understanding of mathematical concepts.</td>
</tr>
</tbody>
</table>
Rubric 10: Analyzing Teaching Effectiveness

| How does the candidate use evidence to evaluate and change teaching practice to meet students’ varied learning needs? |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| **Level 1**     | **Level 2**     | **Level 3**     | **Level 4**     | **Level 5**     |
| Candidate suggests changes unrelated to evidence of student learning. | Candidate proposes changes to teacher practice that are superficially related to student learning needs (e.g., task management, pacing, improving directions). | Candidate proposes changes that address students’ collective learning needs related to the central focus. Candidate makes superficial connections to research and/or theory. | Candidate proposes changes that address individual and collective learning needs related to the central focus. Candidate makes connections to research and/or theory. | Level 4 plus: Candidate justifies changes using principles from research and/or theory. |
Mathematics Assessment Task 3: Assessing Student Learning

What Do I Need to Think About?

In Mathematics Assessment Task 3, you will analyze both student learning and student 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?
- How will you provide meaningful feedback to your students?
- How will you use evidence of what students know and are able to do to plan next steps in instruction?
- 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 will use** to evaluate your students’ developing knowledge and skills. 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,
  - procedural fluency, AND
  - mathematical reasoning or problem-solving skills.

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

- **Collect and analyze student work** 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 OR, for oral assessments of primary grade students (e.g., counting), a video or audio file. For each focus student, a video or audio work sample 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. 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. Note: California candidates must include one focus student who is an English language learner.\(^7\)

- **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 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 Mathematics 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 and additional students are present, clearly identify which students are your focus students in the relevant prompts (1d and 2a) of the Mathematics Assessment Commentary (in no more than 2 sentences).

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

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

- **Provide evidence of students’ understanding and use of the targeted academic language function and other language demands.** You may choose evidence from the video clip(s) submitted in Mathematics 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 Mathematics Assessment Task 3.

See the **Mathematics Assessment Task 3: Artifacts and Commentary Specifications** in the Elementary Education: Mathematics with Literacy Task 4 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.

\(^7\) California candidates—If you do not have any English language learners, select a student who is challenged by academic English. If you do not have a student with an identified disability or a student who is from an underserved education group, select a student receiving tiered support within the classroom or a student who often struggles with the content.
What Do I Need to Write?

Mathematics Assessment Commentary

In Mathematics Assessment Task 3, you will write a commentary, responding to the prompts below. Your commentary should be **no more than 10 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 video or audio clip of feedback or a student work sample (**no more than 2 additional pages**) to the end of the Mathematics Assessment Commentary. These additional pages do not count toward the commentary page limit noted above.

1. **Analyzing Student Learning**
   a. Identify the specific learning objectives 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 Mathematics Assessment Task 3, Part D.
   c. Use evidence found in the **3 student work samples 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,
      - procedural fluency, **AND**
      - mathematical reasoning or problem-solving skills.

   Consider what students understand and do well, and where they continue to struggle (e.g., common errors, confusions, need for greater challenge).
   d. If a video or audio work sample 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 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 video clip(s) from Mathematics 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 objectives measured.

c. Describe how you will support each focus student to understand and use this feedback to further their learning related to learning objectives, 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 clip(s) and/or student work samples as evidence. Evidence from the clip(s) 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 clip(s) from Mathematics 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 Mathematics Assessment Task 3, Part B.

3. Use the student work samples analyzed in Mathematics 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
      ▪ discourse or syntax

      to develop content understandings.

4. Using Assessment to Inform Instruction

   a. Based on your analysis of student learning presented in prompts 1b–c, describe next steps for 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. Explain how these next steps follow from your analysis of student learning. Support your explanation with principles from research and/or theory.
How Will the Evidence of My Teaching Practice Be Assessed?

For Mathematics Assessment Task 3, your evidence will be assessed using rubrics 11–15, which appear on the following pages. When preparing your artifacts and commentaries, refer to the rubrics frequently to guide your thinking, planning, instruction, assessment, and writing.
# Mathematics Assessment Rubrics

## Rubric 11: Analysis of Student Learning

How does the candidate analyze evidence of student learning of conceptual understanding, procedural fluency, and mathematical reasoning or problem-solving skills?

<table>
<thead>
<tr>
<th>Level 1</th>
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<tbody>
<tr>
<td>The analysis is <strong>superficial or not supported</strong> by either student work samples or the summary of student learning. OR The evaluation criteria, learning objectives, and/or analysis are <strong>not aligned with each other</strong>.</td>
<td>The analysis <strong>focuses on what students did right OR wrong</strong>.</td>
<td>The analysis focuses on what students did right <strong>AND wrong</strong>. <strong>AND</strong> Analysis includes some differences in whole class learning.</td>
<td>Analysis uses <strong>specific examples</strong> from work samples to demonstrate patterns of learning consistent with the summary. <strong>AND</strong> Patterns of learning are described for whole class.</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>
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</table>
### Rubric 12: Providing Feedback to Guide Learning

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

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</thead>
</table>
| Feedback is unrelated to the learning objectives **OR** is developmentally inappropriate. | Feedback is general and addresses needs **AND/OR** strengths related to the learning objectives. | Feedback is specific and addresses either needs **OR** strengths related to the learning objectives. | Feedback is specific and addresses both strengths **AND needs** related to the learning objectives. | 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. |
| OR                                                                     |                                                                         |                                                                         |                                                                         |                                                                         |
| Feedback contains significant content inaccuracies.                    |                                                                         |                                                                         |                                                                         |                                                                         |
| OR                                                                     |                                                                         |                                                                         |                                                                         |                                                                         |
| No feedback is provided to one or more focus students.                 |                                                                         |                                                                         |                                                                         |                                                                         |
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?

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<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 focus students will understand or use feedback related to the learning objectives.</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 objectives.</td>
<td>Candidate describes how s/he will support focus students to understand and use feedback on their strengths <strong>AND</strong> weaknesses related to the learning objectives.</td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td>Candidate provides limited or no feedback to inform student learning.</td>
<td></td>
<td></td>
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</tbody>
</table>

Rubric 14: Analyzing Students’ Language Use and Mathematics Learning

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

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<th>Level 1</th>
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</thead>
<tbody>
<tr>
<td>Candidate identifies student language use that is superficially related or unrelated to the language demands (vocabulary and/or symbols, function, and additional demands). OR Candidate’s description or explanation of language use is not consistent with the evidence submitted.</td>
<td>Candidate describes how students use only one language demand (vocabulary and/or symbols, function, discourse, syntax).</td>
<td>Candidate explains and provides evidence of students’ use of • the language function AND • one or more additional language demands (vocabulary and/or symbols, discourse, syntax).</td>
<td>Candidate explains and provides evidence of students’ use of • the language function, • vocabulary and/or symbols, AND • additional language demand(s) (discourse, syntax) in ways that develop content understandings.</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>
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?

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<th>Level 1</th>
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</table>
| Next steps do not follow from the analysis. | 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. | Next steps propose general support that improves student learning related to assessed learning objectives. | Next steps provide targeted support to individuals or groups to improve their learning relative to:
  - conceptual understanding,
  - procedural fluency, AND/OR
  - mathematical reasoning and/or problem-solving skills. | Next steps provide targeted support to individuals AND groups to improve their learning relative to:
  - conceptual understanding, procedural fluency, AND/OR
  - mathematical reasoning and/or problem-solving skills. |
| OR | OR | Next steps are loosely connected with research and/or theory. | Next steps are connected with research and/or theory. | Next steps are justified with principles from research and/or theory. |
| Next steps are not relevant to the learning objectives assessed. | | | | |
| OR | | | | |
| Next steps are not described in sufficient detail to understand them. | | | | |
Elementary Literacy Assessment Task materials begin on the next page of this handbook. Literacy Assessment Task 4 requires two parts. In Part 1, you will analyze evidence of student learning of literacy from one formative assessment completed by a whole class or group of students. The assessment must come from a learning segment of 3–5 lessons taught by you or the classroom teacher. In Part 2, based on your analysis of whole class performance from the formative assessment in Part 1, you will plan and teach a re-engagement lesson that addresses the literacy learning needs of 3 focus students.

Literacy Assessment Task 4 may be completed before or after you complete Elementary Mathematics Tasks 1–3, but all materials for Tasks 1–4 must be submitted for official scoring during the same scoring/submission window.
Literacy Assessment Task 4: Assessing Students’ Literacy Learning

What Do I Need to Think About?

In Literacy Assessment Task 4, you will analyze student work samples from two different assessments. In Part 1, you will analyze student work from the whole class to identify student successes and struggles when applying an essential literacy strategy to comprehend or compose text. You will identify and provide specific evidence from 3 students who need more experience to clarify, practice, or develop the essential literacy strategy. In Part 2, you will implement a re-engagement lesson to further develop students’ understanding of the essential literacy strategy and related skills. You will also evaluate the effectiveness of the re-engagement lesson. As you develop and document your evidence for this task, you need to think about the following:

- How will you analyze a formative assessment from the whole class to identify patterns of learning related to an essential literacy strategy for comprehending or composing text?
- Based on the whole class analysis, how will you identify 3 focus students who need additional experiences applying the essential literacy strategy and its related skills for comprehending or composing text?
- How will you plan and teach another learning opportunity for the focus students so that they clarify, practice, or develop the skills related to the essential literacy strategy for comprehending or composing text?
- How will you use the evidence of students’ literacy learning from student work samples to evaluate the effectiveness of the re-engagement lesson?

What Do I Need to Do?

PART 1: Analysis of a Formative Assessment

Setting the Context

- Select a class or group taught by you or the classroom teacher. If your placement includes more than one class, select one focus class for this task. If your placement for elementary literacy 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 Literacy Assessment Task 4.

- Provide context information. The Elementary Literacy Task 4 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.** Review the curriculum with your cooperating teacher and select a learning segment of **3–5 consecutive lessons** that includes a **formative assessment** for the whole class. Note: The learning segment of 3–5 lessons can be taught by you or the classroom teacher. The 3–5 lessons **do not** include the re-engagement lesson that you must teach to the 3 focus students.

- **Identify an essential literacy strategy for comprehending or composing text** along with the content standard(s) and objectives that will be taught and assessed during the learning segment.

- **Use the** Elementary Literacy Task 4 Learning Segment Overview (no more than 2 pages) **to describe the learning segment.**

- **Develop or adapt a formative assessment to be administered during** the learning segment. You will use this formative assessment to assess learning on the essential literacy strategy and related skills for comprehending or composing text.
  - The formative assessment must provide opportunities for students to demonstrate application of the essential literacy strategy and related skills for comprehending or composing text.
  - The formative assessment must allow students to produce a work sample that you will analyze. The work samples from the formative assessment must reflect the work of individuals, not group work, but may be individual work from a group task.

- **Submit a blank copy** of the formative assessment, including directions and/or prompts provided to the students.

- Define the evaluation criteria for the formative assessment that you will use with the whole class during the learning segment.

### Analyzing Student Work

- **Collect and analyze student work** for the whole class from the formative assessment and **summarize student learning in graphic (chart or table) or narrative form.** Your analysis must identify patterns of learning related to the essential literacy strategy and related skills within and across learners.

### Identifying a Literacy Struggle

- **Select and submit 3 focus student work samples** from the formative assessment that demonstrate a **literacy struggle** directly related to the essential literacy strategy and related skills for comprehending or composing text.
  - You may submit **text files** with scanned student work **OR** **video or audio clips.**
  - Important notes regarding administering and submitting video/audio evidence:
    - For each focus student, a video or audio work sample must be **no more than 5 minutes** in total running time.
    - If additional students are present in a clip, clearly identify (in no more than 2 sentences) which students are your focus student(s) in Literacy Task 4 Assessment Commentary prompt 2b.
    - If you are using a **record sheet** as part of the assessment to record students’ thinking and/or learning, submit the annotated record sheet with the student work sample.
If comments made by you or your focus student(s) cannot be clearly heard, (1) attach a transcription of the inaudible comments (no more than 2 additional pages) to the end of the Literacy Task 4 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).

Student work samples must be actual work from the students—you may not submit transcriptions of what students said or notes of student responses to an assessment as the only source of student work. If you transcribe or provide notes of what students said, you must also submit the video or audio evidence that documents what was said by the students, even if their words are not clearly heard.

- **Analyze the 3 focus students' work samples** to identify and explain the literacy struggle.
  - At least one of the focus students must have an identified learning need (for example, an English language learner, a student with an IEP [Individualized Education Program] or 504 plan, a struggling reader, an underperforming student or a student with gaps in academic knowledge, and/or a gifted student needing greater support or challenge).

  **Note for California candidates:** Your focus students must include an English Language Learner, a student with an identified disability, and a student from an underserved education group. You only need to meet this requirement once across your edTPA Tasks 1–4.

- **Identify a learning objective** based on your analysis of the work samples and the identified struggle. This learning objective must allow the focus students to clarify, practice, or develop the essential literacy strategy and related skills.
PART 2: Analysis of Re-engagement Lesson

Developing Students’ Effective Use of the Essential Literacy Strategy

- **Design a re-engagement lesson** based on the learning objective you identified to provide the 3 focus students more experience to clarify, practice, or develop the essential literacy strategy and related skills.
  - The re-engagement lesson **must include a new assessment** of student learning related to the essential literacy strategy and related skills.

- **Implement the re-engagement lesson and new assessment.** The re-engagement lesson may be planned to engage the 3 focus students during one-on-one, small group, or whole class instruction.

Evaluating the Effectiveness of the Re-engagement Lesson

- **Collect and submit the 3 focus students’ work samples** from the new assessment designed for the re-engagement lesson.
  - You may submit **text files** with scanned student work **OR** video or audio clips.
  - Important notes regarding **administering and submitting video/audio evidence**:
    - For each focus student, a video or audio work sample must be **no more than 5 minutes** in total running time.
    - If additional students are present in a clip, clearly identify (in no more than 2 sentences) which students are your focus student(s) in Literacy Task 4 Assessment Commentary prompt 4b.
    - If you are using a **record sheet** as part of the assessment to record students’ thinking and/or learning, **submit the annotated record sheet with the student work sample**.
    - If comments made by you or your focus student(s) cannot be clearly heard, (1) attach a transcription of the inaudible comments (no more than 2 additional pages) to the end of the Literacy Task 4 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).
    - Student work samples must be actual work from the students—you may not submit transcriptions of what students said or notes of student responses to an assessment as the **only** source of student work. If you transcribe or provide notes of what students said, you must also submit the video or audio evidence that documents what was said by the students, even if their words are not clearly heard.

- **Evaluate the effectiveness of the re-engagement lesson** using evidence from the focus students’ work samples and consider its impact on students’ literacy learning related to the essential strategy and related skills.
See the Literacy Assessment Task 4 Artifacts and Commentary Specifications in the Elementary Education: Mathematics with Literacy Task 4 Evidence Chart for instructions on electronic submission of evidence for your portfolio. 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 Literacy Assessment Task 4, you will write a:

- description of your Context for Learning (see “What Do I Need to Do?” above for directions)
- learning segment overview (see “What Do I Need to Do?” above for directions)
- description of re-engagement lesson plan (see prompt 3a below for directions)
- commentary analyzing student learning and teaching effectiveness (see “Literacy Assessment Commentary” below for directions)

Literacy Assessment Commentary

In Literacy Assessment Task 4, you will write a commentary, responding to the prompts below. Your commentary should be no more than 8 single-spaced pages, including the prompts. At the end of the Literacy Assessment Commentary, attach a blank copy of the assessment used with the re-engagement lesson (no more than 5 additional pages) and, if necessary, a transcription of inaudible portions of a video or audio clip of a work sample (no more than 4 additional pages). These additional pages do not count toward the commentary page limit noted above.

Commentary Part 1: Analysis of Formative Assessment

1. Analyzing Student Learning—Whole Class
   a. List the learning objective(s) measured by the formative assessment you chose for the learning segment.
   b. Describe how the formative assessment aligns with the:
      - essential literacy strategy and
      - related skills
   c. Provide a graphic (chart or table) or narrative that summarizes student learning for the whole class. Be sure to summarize student learning for all evaluation criteria submitted in Literacy Assessment Task 4, Part D.
   d. Using examples from the summary chart, discuss the patterns of learning across the whole class relative to the essential literacy strategy and related skills for comprehending or composing text.
2. Analyzing Student Learning—3 Focus Students

a. In what form did you submit the work samples for the 3 focus students?
   - Written work samples in text files
   - In audio files
   - In video files

b. If a video work sample occurs in a group context (e.g., reading group), 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 is portrayed.

c. Analyze the 3 focus students’ work samples to explain the literacy struggle related to the essential literacy strategy and related skills. Use specific evidence from the 3 work samples to identify approximations, partial understandings or misunderstandings in students’ use of the essential strategy and related skills.

d. Based on your analysis of the focus students’ work samples and the identified literacy struggle, write a learning objective to provide the 3 focus students a re-engagement lesson to clarify, practice, or develop the essential literacy strategy and related skills.

Commentary Part 2: Analysis of Re-Engagement Lesson

3. Developing Students’ Effective Use of the Essential Literacy Strategy

a. Describe the re-engagement lesson you designed to provide the 3 focus students with experience needed to clarify, practice, or develop the essential literacy strategy and related skills connected to the learning objective identified in prompt 2d. Your description should include:
   - learning objective from prompt 2d
   - 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.)
   - instructional strategies and learning tasks for the re-engagement lesson (including what you and the students will be doing)
   - text and/or pictures and other instructional resources/materials used to engage students in the learning task(s)
   - an assessment for monitoring student learning during the re-engagement lesson (e.g., writing sample, quick write, illustration, graphic organizer, video clip)

IMPORTANT: Before responding to prompt 4, you must provide students with the planned re-engagement lesson and collect focus student work samples showing evidence of student learning related to the learning objective in prompt 2d. The re-engagement lesson may be taught with the 3 focus students one-on-one, in a small group, or with the whole class.
4. Evaluating the Effectiveness of the Re-engagement Lesson

**Cite evidence from the 3 focus students’ work samples from the re-engagement lesson to support your response to prompt 4c.**

a. In what form did you submit the 3 students’ work samples from the re-engagement lesson?
   - Written work samples in text files
   - In audio files
   - In video files

b. If a video work sample occurs in a group context (e.g., discussion, small group activity, reading group), 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 is portrayed.

c. Evaluate the effectiveness of your instructional decisions used during the re-engagement lesson that provided students with additional experiences to clarify, practice, or develop the essential literacy strategy and related skills. Cite evidence from the re-engagement lesson work samples to support your evaluation. Be sure to state whether or not your re-engagement lesson was effective.

d. Analyze changes in the 3 focus students’ use of the essential literacy strategy and related skills from the formative assessment to the assessment in the re-engagement lesson. Cite evidence of student work from both the assessments to analyze students’ literacy learning.

How Will the Evidence of My Teaching Practice Be Assessed?

For Literacy Assessment Task 4, your evidence will be assessed using rubrics 16–18, which appear on the following pages. When preparing your artifacts and commentary, refer to the rubrics frequently to guide your thinking, planning, and writing.
## Literacy Assessment Rubrics

### Rubric 16: Analyzing Whole Class Understandings

How does the candidate analyze whole class evidence to identify patterns of student learning related to the essential literacy strategy and related skills?

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<tbody>
<tr>
<td>The analysis is superficial or not supported by the summary of student learning. OR The evaluation criteria, learning objectives, summary, and/or analysis are not aligned with each other. OR There are significant content inaccuracies that affect the analysis.</td>
<td>Candidate identifies whole class strengths OR needs related to the essential literacy strategy OR related skills for comprehending or composing text.</td>
<td>Candidate describes whole class strengths AND needs related to the essential literacy strategy AND related skills for comprehending or composing text.</td>
<td>Candidate describes patterns of learning for the whole class related to the essential literacy strategy and related skills for comprehending or composing text.</td>
<td>Level 4 plus: Candidate describes the relationship between or among patterns of learning.</td>
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</table>
Rubric 17: Analyzing Individual Student Work Samples

How does the candidate use the work samples to explain the identified student struggle related to the essential literacy strategy and related skills?

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<tbody>
<tr>
<td>The identified student struggle is not related to the essential literacy strategy and related skills. OR The analysis is not supported by student work samples.</td>
<td>Candidate provides a general description of the student struggle related to the essential literacy strategy OR related skills for comprehending or composing text.</td>
<td>Candidate refers to the 3 focus student work samples to identify the student struggle related to the essential literacy strategy AND related skills for comprehending or composing text.</td>
<td>Candidate uses specific evidence from the 3 focus student work samples to explain the student struggle related to the essential literacy strategy AND related skills for comprehending and composing text.</td>
<td>Level 4 plus: Analysis identifies explicit connections between the identified student struggle and the misapplication of the essential literacy strategy and related skills for comprehending and composing text.</td>
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### Rubric 18: Using Evidence to Reflect on Teaching

How does the candidate use evidence of students’ literacy learning to evaluate the effectiveness of the re-engagement lesson?

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<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
</table>
| Candidate **does not state whether or not the re-engagement lesson was effective.**  
OR  
Candidate provides no evidence from student work samples.  
OR  
Learning objective is not aligned with the identified essential literacy strategy. | Candidate **states whether or not the re-engagement lesson was effective and provides superficial evidence** from student work samples. | Candidate **describes whether or not the re-engagement lesson was effective using evidence of student learning from the 3 student work samples.** | Candidate **evaluates whether or not the re-engagement lesson was effective using specific evidence of student literacy learning from the 3 student work samples.** | Level 4 plus: Candidate analyzes changes in students’ use of the essential literacy strategy using evidence from both the whole class formative assessment and the re-engagement lesson. |
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>
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<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 procedures and necessary forms 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 each task 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 education agency 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. |
Elementary Mathematics 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. Where is the school where you are teaching located? (Type an "X" next to the appropriate description.)
   - City: _____
   - Suburb: _____
   - Town: _____
   - Rural: _____

2. What grade levels are at your school site (e.g., K–6)?

3. List any special features of your school or classroom setting (e.g., charter, co-teaching, themed magnet, classroom aide, bilingual, team taught with a special education teacher) 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. How much time is devoted each day to mathematics instruction in your classroom?

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

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

4. List other resources (e.g., electronic whiteboard, manipulatives, online resources) you use for mathematics instruction in this class.

---

9 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.
About the Students in the Class Featured in this Learning Segment

1. Grade level(s): ____________________________

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 Mathematics Assessment Task 3, you will choose work samples from 3 focus students. At least one of these students must have a specified learning need. Note: California candidates must include one focus student who is an English language learner.¹⁰

¹⁰ California candidates—If you do not have any English language learners, select a student who is challenged by academic English. If you do not have a student with an identified disability or a student who is from an underserved education group, select a student receiving tiered support within the classroom or a student who often struggles with the content.
## 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, graph paper for 3 digit numbers</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>Have students use pre-taught key words and graphic organizers to complete sentence starters</td>
<td></td>
<td></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 and simplified text for word problems</td>
</tr>
</tbody>
</table>
Elementary Literacy Task 4
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.)
   - Elementary school: _____
   - Middle 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, intervention or other leveled small group instruction, classroom aide, bilingual, team taught with a special education teacher) 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. How much time is devoted each day to literacy instruction in your classroom?

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

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

4. List other resources (e.g., electronic whiteboard, classroom library or other text sets, online professional resources) you use for literacy instruction in this class.

---

11 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.
About the Students in the Class Featured in this Learning Segment

1. Grade level(s): _______________________________

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 literacy 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 Literacy Assessment Task 4, you will choose work samples from 3 focus students. At least one of these students must have a specified learning need.

**Note to California Candidates:** Your focus students must include an English Language Learner, a student with an identified disability and a student from an underserved education group. You only need to meet this requirement once across your edTPA Tasks 1–4.¹²

---

¹² California candidates—If you do not have any English language learners, select a student who is challenged by academic English. If you do not have a student with an identified disability or a student who is from an underserved education group, select a student receiving tiered support within the classroom or a student who often struggles with the content.
### 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 print text, window card to isolate text</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>Leveled text, targeted guided reading, ongoing reading assessment (e.g., running records, miscue, conferencing)</td>
</tr>
</tbody>
</table>
**Elementary Literacy Task 4**  
Learning Segment Overview

<table>
<thead>
<tr>
<th>Essential Literacy Strategy:</th>
<th>Central Focus:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related Skills:</td>
<td>State-Adopted Content Standards:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Learning Objectives</th>
<th>Instructional Strategies and Learning Tasks</th>
<th>Formative and Summative Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lesson 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lesson 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lesson 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lesson 4 (Optional)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lesson 5 (Optional)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Elementary Education: Mathematics with Literacy Task 4 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 in languages other than English or Spanish, these 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.

## Mathematics 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>Part A: Context for Learning Information</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1 1</td>
<td>No more than 4 pages including prompts</td>
<td>Use Arial 11-point type.</td>
</tr>
<tr>
<td>(template provided)</td>
<td></td>
<td></td>
<td></td>
<td>Single space with 1&quot; margins on all sides.</td>
</tr>
<tr>
<td>Part B: Lesson Plans for Learning Segment</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1 1</td>
<td>No more than 4 pages per lesson</td>
<td>Submit 3–5 lesson plans in 1 file.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Within the file, label each lesson plan (Lesson 1, Lesson 2, etc.).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>All rationale or explanation for plans should be written in the Planning Commentary and removed from lesson plans.</td>
</tr>
<tr>
<td>Part C: Instructional Materials</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1 1</td>
<td>No more than 5 pages of KEY instructional materials per lesson plan</td>
<td>Submit all materials in 1 file.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Within the file, label materials by corresponding lesson (Lesson 1 Instructional Materials, Lesson 2 Instructional Materials, etc.).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Order materials as they are used in the learning segment.</td>
</tr>
<tr>
<td>Part D: Assessments</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1 1</td>
<td>No limit</td>
<td>Submit assessments in 1 file.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Within the file, label assessments by corresponding lesson (Lesson 1 Assessments, Lesson 2 Assessments, etc.).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Order assessments as they are used in the learning segment.</td>
</tr>
</tbody>
</table>

(Continued on next page)
Mathematics Planning Task 1: Artifacts and Commentary Specifications (continued)

<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 E: Planning Commentary (template provided)</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No more than 9 pages of commentary, including prompts</td>
<td>- Use Arial 11-point type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>- Single space with 1&quot; margins on all sides.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Respond to prompts before teaching the learning segment.</td>
</tr>
</tbody>
</table>
## Mathematics 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>13</sup> | flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v | 1 | **No more than 15 minutes total running time (but not less than 3 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 Mathematics 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. |
| Part B: Instruction Commentary (template provided) | .doc; .docx; .odt; .pdf | 1 | **No more than 6 pages of commentary, including prompts**  
If needed, no more than 2 additional pages of supporting documentation | ▪ Use Arial 11-point type.  
▪ Single space with 1" margins on all sides.  
▪ Respond to prompts after teaching the learning segment.  

### IMPORTANT:  
▪ Insert documentation at the end of the commentary file if  
  ▪ you or the students are using graphics, texts, or images that are not clearly visible in the video  
  ▪ you chose to submit a transcript for occasionally inaudible portions of the video  
  ▪ If submitting documentation, include the video clip number, lesson number, and explanatory text (e.g., “Clip 1, lesson 2, text from a whiteboard that is not visible in the video,” “Clip 2, lesson 4, transcription of a student response that is inaudible”).

<sup>13</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.
## Mathematics Assessment Task 3: 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: Student Work Samples | For written work samples: .doc; .docx; .odt; .pdf  
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 | Min: 3  
Max: 3 |  
No page limit for written work samples  
No more than 5 minutes per focus student for video or audio student work samples |  
For written work samples, 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 1d of the Mathematics 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 Mathematics 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). |

---

14 **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.
Mathematics Assessment Task 3: Artifacts and Commentary Specifications
(continued)

<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: Evidence of Feedback&lt;sup&gt;15&lt;/sup&gt;</td>
<td>For written feedback not written on the work samples: .doc; .docx; .odt; .pdf</td>
<td>0–4</td>
<td>No page limit for written feedback</td>
<td>Document the location of your evidence of feedback in the Mathematics Assessment Commentary.</td>
</tr>
<tr>
<td>And, if included, video evidence of academic language use</td>
<td>For audio feedback: flv, asf, wmv, qt, mov, mpg, avi, mp3, wav, mp4, wma</td>
<td></td>
<td>No more than 3 minutes per focus student for video or audio feedback</td>
<td>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).</td>
</tr>
<tr>
<td></td>
<td>For video clips (feedback and/or language use): flv, asf, qt, mov, mpg, mpeg, avi, wmv, mp4, m4v</td>
<td></td>
<td>No more than 5 minutes for video evidence of student language use</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>When naming each feedback file, include the student number.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>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 Mathematics 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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>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 Mathematics Instruction Task 2 or submit an entirely new clip.</td>
</tr>
</tbody>
</table>

15 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.
### Mathematics Assessment Task 3: Artifacts and Commentary Specifications (continued)

<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><strong>Part C:</strong> Assessment Commentary (template provided)</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>1</td>
<td>No more than 10 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</td>
</tr>
</tbody>
</table>

| **Part D:** Evaluation Criteria | .doc; .docx; .odt; .pdf | 1 | 1 | No limit |

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**edTPA Elementary Education: Mathematics with Literacy Task 4 Assessment Handbook**

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# Literacy Assessment Task 4: 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>Part A: Elementary Literacy Task 4 Context for Learning Information</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No more than 4 pages, including prompts</td>
<td>- Use Arial 11-point type.</td>
</tr>
<tr>
<td>(template provided)</td>
<td></td>
<td></td>
<td></td>
<td>- Single space with 1&quot; margins on all sides.</td>
</tr>
<tr>
<td>Part B: Elementary Literacy Task 4 Learning Segment Overview</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No more than 2 pages</td>
<td>- Use Arial 11-point type.</td>
</tr>
<tr>
<td>(template provided)</td>
<td></td>
<td></td>
<td></td>
<td>- Single space with 1&quot; margins on all sides.</td>
</tr>
<tr>
<td>Part C: Literacy Formative Assessment</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No limit</td>
<td>- IMPORTANT: Submit a blank copy of the chosen formative assessment with any necessary directions/prompts.</td>
</tr>
<tr>
<td>Part D: Evaluation Criteria for Formative Assessment</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1</td>
<td>No limit</td>
<td></td>
</tr>
</tbody>
</table>

(Continued on next page)
# Literacy Assessment Task 4: Artifacts and Commentary Specifications (continued)

<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 E: Student Literacy Work Samples (from Learning Segment) | For written work samples: .doc; .docx; .odt; .pdf  
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 | 3 | 6 | No page limit for written work samples  
No more than 5 minutes per focus student for video or audio student work samples |
| |  |  |  | **IMPORTANT:** Submit the work samples from the chosen formative assessment.  
For written work samples, 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 literacy work sample and/or record sheet (if used), indicate the student number (e.g., Student 1 Literacy Work Sample, Student 2 Record Sheet). 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 2b of the Literacy Assessment Commentary.  
When naming each literacy work sample file, include the student number **AND** the word *literacy* in the file name.  
If you submit a student work sample 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 Literacy 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). |

16 **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.
<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>
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<tbody>
<tr>
<td>Part F: Student Work from Re-engagement Lesson 17</td>
<td>For written work samples: .doc; .docx; .odt; .pdf 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</td>
<td>Min 3 Max 6</td>
<td>No page limit for written work samples No more than 5 minutes per focus student for video or audio student work samples</td>
<td>IMPORTANT: Submit the work samples from the re-engagement lesson. For written work samples, 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 re-engagement work sample and/or record sheet (if used), indicate the student number (e.g., Student 1 Re-engagement Work Sample, Student 2 Record Sheet). 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 4b of the Literacy Assessment Commentary. When naming each re-engagement work sample file, include the student number AND the word re-engagement in each file name. If you submit a re-engagement work sample 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 Literacy 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>
</tr>
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17 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.
Literacy Assessment Task 4: Artifacts and Commentary Specifications (continued)

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<th>What to Submit</th>
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<tr>
<td>Part G: Literacy Task 4 Assessment Commentary (template provided)</td>
<td>.doc; .docx; .odt; .pdf</td>
<td>1 1</td>
<td>No more than 8 pages of commentary, including prompts Plus no more than 5 pages for the re-engagement assessment if necessary, no more than 4 additional pages of transcriptions of video/audio work samples</td>
<td>Use Arial 11-point type. Single space with 1” margins on all sides. IMPORTANT: Attach a blank copy of the assessment from the re-engagement lesson, with any necessary directions/prompts.</td>
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</tbody>
</table>
Elementary Education: Mathematics with Literacy Task 4 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 and/or symbols, discourse, and syntax.**

- **language demands:**¹⁸ Specific ways that academic language (vocabulary and/or symbols, functions, discourse, syntax) 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 mathematics include describing mathematical phenomena, predicting from models and data, comparing based on common attributes, summarizing mathematical information, recording multiple ways to solve problems, justifying conclusions, evaluating data and mathematical representations, classifying based on attributes, explaining how or why certain strategies work, drawing conclusions based on data, representing mathematical information, and so on. Some specific mathematics verbs are non-examples of language functions because they focus on a mathematical action, not a language-based action. Examples of mathematical functions that ARE NOT language functions include solving problems, simplifying the expressions, calculating the answers, and estimating the answers.

- **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.¹⁹

- **discourse:** Discourse includes the structures of written and oral language, as well as how students talk, write, and participate in knowledge construction in ways that are appropriate both to their development and to the discipline. 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.\textsuperscript{20} In mathematics, language structures include symbolic representations such as numbers, equations, and proofs (which can be translated into words), tables and graphs (which are shorthand language for summarizing complex sets of data), and narrative (e.g., explanations of problem solutions). If the function is to compare, then appropriate language forms could include Venn diagrams or pattern sentences such as “The ______ is longer/larger/heavier than the ______.” If the function is to explain, then students might use sentence starters like “First, I…”, “Then I…” to structure the explanation, and use “Finally, I…” to signal the conclusion.

- **syntax**: The set of conventions for organizing symbols, words, and phrases together into structures (e.g., sentences, graphs, tables).\textsuperscript{21}

- **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).\textsuperscript{22} The language supports planned within the lessons in edTPA should directly support learners to understand and use identified language demands (vocabulary and/or symbols, language function, and discourse or syntax) to deepen content understandings.

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

**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. Artifacts are submitted as part of your edTPA 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.”\textsuperscript{23} Assessments provide evidence of students’ prior knowledge, thinking, or learning in order to evaluate what students understand and how they are thinking. Informal assessments may include, for example, student questions and responses during instruction and teacher observations of students as they work or perform. Formal assessments may include, for example, quizzes, homework assignments, 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, mathematical dispositions, 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, align with content standards and learning objectives, and address the subject-specific components in the learning segment.

For example, the subject-specific components for elementary mathematics are conceptual understanding, procedural fluency, AND mathematical reasoning or problem-solving skills. A central focus for the elementary mathematics learning segment might be equivalent fractions or equivalencies. The learning segment would focus on conceptual understanding and the associated computational/procedural understandings AND reasoning or problem-solving skills.

In elementary literacy, the central focus is an overarching, big idea for student learning in literacy. The subject-specific components for the elementary literacy central focus also include (a) an essential literacy strategy tied to the central focus and (b) related skills. For example, the central focus for a primary grade learning segment might be retelling. The learning segment would focus on the essential literacy strategy (e.g., summarizing a story) and related skills (e.g., decoding, recalling, sequencing). The central focus for an upper elementary learning segment might be persuasive writing. The learning segment would focus on the essential literacy strategy (using evidence to support an argument) and related skills (e.g., writing paragraphs, using correct verb tense, or other conventions). The chart below provides ONE example of the relationships among the central focus, essential strategy, related skills, standards/objectives, and academic language function:
See the appendix of the Understanding Rubric Level Progressions (URLP) resource for additional guidance on selecting the central focus, essential literacy strategy, and related skills that you plan to teach within the lessons in your learning segment.

**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.

**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 objectives. Engagement in learning contrasts with student participation in learning tasks that are not well designed and/or implemented and do not increase student learning.

**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:** 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 objectives, and analyze your teaching effectiveness. Your evidence must be submitted electronically using the electronic portfolio management system used by your teacher preparation program.

**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 objectives:** Student learning outcomes to be achieved by the end of the lesson or learning segment.

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

- For elementary mathematics, the central focus should support students to develop conceptual understanding, procedural fluency, and mathematical reasoning/problem-solving skills.
- For elementary literacy, the central focus should support students to develop an essential literacy strategy and related skills.

**learning task:** 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.

- A sample mathematical learning task for fourth graders working with multi-digit numbers could be: Collect the population from 4 neighboring states to compare with our own state. Identify the state with the highest and lowest populations and make a table showing the states’ populations in order from highest to lowest populations. Compare the populations of the states by writing statements using <, =, and >.
- A sample literacy learning task for fifth grade that is focused on writing an essay with an argument structure could be a discussion about a topic about which students have strong opinions (e.g., school uniforms) and draw from their everyday experiences constructing arguments to introduce the features of the genre. Over a unit of instruction, the teacher models various features, while students read and analyze argument text on a variety of topics, and develop their own argument essay.

**misconception:** For mathematics, a misconception stems from an erroneous framework about mathematical relationships or concepts, sometimes based on informal generalizations from experience. For example, a student may believe that multiplying two numbers always results in a larger number than either of the numbers being multiplied. This misconception is
likely to cause difficulty when learning to multiply fractions. For literacy, includes confusion about a strategy or skill (e.g., misunderstanding about text purpose and structure, application of a skill, or multiple meaning words).

**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 developmental approximations 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.

**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).

**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.

**Mathematics-Specific Glossary Terms**

**assessment (summative and formative):** Summative and formative assessments play an integral part in information gathering about student learning. **Summative assessments** are given periodically, to determine at a particular point in time what students know and do not know relative to content standards. Examples might include chapter tests, unit tests, or culminating projects. In contrast, **formative assessments** are incorporated into classroom practice and can provide information needed to adjust teaching and learning as students...
approach full mastery of content. Examples of formative assessments could include observations, questioning strategies, and self- and peer-assessments.

**Conceptual Understanding:** “Students demonstrate conceptual understanding in mathematics . . . when they recognize, label, and generate examples of concepts; use and interrelate models, diagrams, manipulatives, and varied representations of concepts; identify and apply principles; know and apply facts and definitions; compare, contrast, and integrate related concepts and principles; recognize, interpret, and apply the signs, symbols, and terms used to represent concepts.”

**Mathematical Reasoning:** “[T]he capacity to think logically about the relationships among concepts and situations. Such reasoning is correct and valid, stems from careful consideration of alternatives, and includes knowledge of how to justify the conclusions. . . . One uses it to navigate through the many facts, procedures, concepts, and solution methods and to see that they all fit together in some way, that they make sense.”

**Mathematical Understandings:** Conceptual understanding, procedural fluency, and reasoning/problem-solving skills. Mathematical competencies (conceptual understanding and procedural fluency) develop through instruction of mathematical topics. Mathematical reasoning provides opportunities for students to develop and express insights about the mathematical competencies that they are developing. Problem solving allows students to draw on the competencies that they are developing to engage in a task for which they do not know the solution.

**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, partial understandings, and/or developmental approximations and/or attempts at a solution related to a concept or a skill that could explain the quantitative patterns.

For example, if the majority of students (quantitative) in a class ordered unit fractions from least to greatest as $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, the students’ error shows that they believe that the smaller the denominator, the smaller the fraction and they have a mathematical misunderstanding related to the value of fractional parts (qualitative).

**Problem-Solving Skills:** Skills to “engag[e] in a task for which the solution method is not known in advance.”

**Procedural Fluency:** Procedural fluency is a critical component of mathematical proficiency. Procedural fluency is the ability to apply procedures accurately, efficiently, and flexibly; to
transfer procedures to different problems and contexts; to build or modify procedures from other procedures; and to recognize when one strategy or procedure is more appropriate to apply than another. To develop procedural fluency, students need experience in integrating concepts and procedures and building on familiar procedures as they create their own informal strategies and procedures. Students need opportunities to justify both informal strategies and commonly used procedures mathematically, to support and justify their choices of appropriate procedures, and to strengthen their understanding and skill through distributed practice.29

representation: The term representation refers both to process and to product—in other words, to the act of capturing a mathematical concept or relationship in some form and to the form itself. . . . Moreover, the term applies to processes and products that are observable externally as well as to those that occur “internally,” in the minds of people doing mathematics. All these meanings of representation are important to consider in school mathematics. (From National Council of Teachers of Mathematics [2000]. *Principles and Standards for School Mathematics*, p. 67)

**Literacy-Specific Glossary Terms**

**essential literacy strategy:** An approach selected deliberately by a reader or writer to comprehend or compose text. When students are able to select and use strategies automatically, they have achieved independence in using the strategy to accomplish reading and writing goals.

For elementary literacy, the *essential literacy strategy* is the specific strategy for comprehending or composing text that you will teach across your learning segment lessons. It should be clearly tied to your segment’s central focus and stem from that big, overarching idea for student learning in literacy.

Example strategies for reading include summarizing a story, comparing and contrasting firsthand and secondhand accounts of the same event, using evidence to predict, interpreting a character’s feelings, or drawing conclusions from informational text. Example strategies for writing include organizing ideas before writing, note taking from informational text to support drafting a topic, using graphic organizers to organize writing, using a rubric to revise a draft, or using quotes as evidence to support an argument. See the *Making Good Choices* resource and the *Making Good Choices Addendum for Elementary Education: Mathematics with Literacy Task 4* for additional guidance.

**literacy skills:** Specific knowledge needed for reading and writing, including phonemic/phonological awareness; print concepts; decoding; word analysis; sight-word recognition; and spelling, punctuation, or other language conventions.

**reading/writing connections:** Support students’ literacy development through an explicit understanding that many of the skills that are taught in reading instruction are also beneficial to young writers. Students gain insight on how the processes of reading and writing are interdependent, thereby reinforcing their understanding of the varied purposes of texts, how texts are organized, how to make meaning from text, and how writers develop their craft. Examples of learning tasks that support reading/writing connections include reading or researching informational text to inform an essay; journal writing to make predictions;
making personal or text-to-text connections; writing book reviews or alternative endings to stories; or writing in a style that emulates a model.

**re-engagement lesson:** A re-engagement lesson provides students more experiences in applying and using an essential literacy strategy or related skill. The re-engagement lesson uses texts, learning tasks, and/or strategies that are different from what students may have been exposed to during the learning segment or original instruction.

**related skills:** Literacy skills that students will develop and practice while learning an essential literacy strategy for comprehending or composing text within the learning segment. These skills should help students understand and apply the essential literacy strategy that you are teaching. Not to be confused with prerequisite skills, which are fully developed before the learning segment begins. See the *Making Good Choices* resource and the *Making Good Choices Addendum for Elementary Education: Mathematics with Literacy Task 4* for additional guidance.

**struggle or gap in learning:** Struggle or gap in learning includes confusion about a strategy or skill (e.g., misunderstanding about text purpose and structure, application of a skill, or multiple meaning words). It could also be that there is a gap, or missing skill or understanding, that causes the student(s) to struggle with a particular strategy. For example, if a student is struggling with making an inference, they may be missing how they connect their background experiences with what is said in the text to make an inference. The underlying partial understanding may be making a connection between background experiences and the story details. The partial understanding becomes the basis for the targeted learning objective/goal for the students (Possible goal: When reading text, students will connect background experiences to the details in the text to make inferences.). A second example, if a student’s struggle occurs in keeping on topic when writing an expository essay, then an underlying partial understanding may be in organizing data by topic before writing the expository essay (Possible goal: Before writing the expository text, students will brainstorm data to include in the essay and will organize the data by topic.).