**[K-5] Building a Culture of Math Learning Session 4 Facilitator’s Guide**

**Summary**

Effective teaching of mathematics requires cultivating a culture of math learning within the classroom - this culture encourages students to take academic risks, to persevere when content becomes challenging, to utilize a myriad of mathematical tools and models to approach new problems, to share their own thinking, and to offer feedback on the thinking of others. To cultivate this kind of culture, teachers must model through words and actions the importance of grappling with content to build a deep understanding; they must equip students with the content knowledge and problem solving tools to find multiple pathways to a given solution; and they must facilitate regular opportunities for students to engage in the practices of mathematics, including analyzing their own misconceptions and refining their approaches as part of the learning process.

Throughout this content cycle, teachers will explore these instructional moves and connect them directly to the mathematical content and standards for mathematical practices within the *Kentucky Academic Standards* (*KAS) for Mathematics*. While this content cycle will do a deep dive of the 3 Standards for Mathematical Practice indicated below, the *KAS for Mathematics* require teachers to implement all 8 Standards for Mathematical Practice. To support teachers in elevating different SMPs during their instruction, the *KAS for Mathematics* tag relevant MPs to every content standard. The inclusion of those tagged MPs does NOT mean those are the only ways students can engage in the practices while learning that content. The inclusion of tagged MPs also doesn’t mean that those practices automatically happen throughout instruction on that content standard. How instruction is designed will determine how students engage with the content. This content cycle will support educators in purposefully planning and designing instruction to provide students with opportunities to engage in the practice standards while engaging with the content standards.

This content cycle focuses specifically on:

* SMP1. Make sense of problems and persevere in solving them
* SMP4. Model with mathematics
* SMP3. Construct viable arguments and critique the reasoning of others

See the[***Mathematics Professional Learning Modules***](https://kystandards.org/standards-resources/mathematics-resources/math-pl-modules/)for additional learning around the Standards for Mathematical Practice or for guidance/support with implementing the *KAS for Mathematics.*

**Essential Questions**

* How do the Standards of Mathematical Practice support teachers in creating and sustaining a culture of learning in math classrooms?
* How can teachers explicitly introduce and authentically incorporate the Standards of Mathematical Practice within their instruction?
* How can teachers create a “culture of error” where students feel comfortable taking academic risks, struggling through high-quality tasks and discussing their misconceptions to advance their own learning?
* Specifically, how can an emphasis on problem-solving (SMP 1), modeling to understand “concepts before procedures” (SMP 4) and justification of answers (SMP 3) create an environment where students are encouraged to own their own learning?

**Enduring Understandings**

* Teachers should communicate that perseverance, which requires a willingness to take risks and make mistakes, is a critical part of the learning process.
* In order for students to own their own learning, teachers intentionally design instruction which places equal value on the development of mathematical content and mathematical practices.
* True conceptual understanding of math comes from connecting multiple representations (concrete, representational/pictorial, and abstract).
* To build deep and enduring understanding of math, teachers must place emphasis on the “how” and “why” and push students to justify their answers,
* Meaningful teacher and peer feedback allow for students to monitor their progress toward learning outcomes and provides students with opportunities to reflect on their own learning.

**Key Components of Cycle**

**The Learning Cycle includes the following components to support shifts in instruction:**

* **Shared Learning:** Learning sessions where teachers learn new knowledge and skills aligned to the topic of the content cycle. This might be designed in a variety of ways, including reading and discussing an article, studying a classroom video or doing some group practice of a particular planning component.
* **Planning & Practice:** Opportunities for teachers to apply the content they are learning within this content cycle to review/revise classroom instruction. This could include analyzing units/lessons using tools to evaluate alignment to the *KAS for Mathematics*, rehearsing lessons, watching and reflecting on videos of their classroom practice, etc.
* **Student Progress Monitoring:** This is an opportunity for teachers to examine student progress aligned to the topic of the cycle. This can include formative student work analysis, end of unit assessments, culminating tasks, etc.

Over the course of this 12-week learning cycle, teachers will:

* Examine instructional materials and tasks using the *KAS for Mathematics* and supporting resources;
* Consider the implications of these materials as they relate to changes in both teacher planning and practice;
* Engage in lesson study, practice in content delivery and peer-feedback, and reflect on progress by regularly revisiting goals and analyzing student data

*Note that these components do not necessarily happen in a perfect rhythm. For example, depending on the content, there may be several shared learning sessions before a planning & practice, or there may be several cycles of shared learning and planning & practice before student progress monitoring.*

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| **Session** | **Type of Learning** | **Objective(s)** | **Supporting KAS Resources** | **Assessment of Learning** |
| **Session 4** | **Shared Learning** Focusing on SMP 1 | * Analyze specific teacher planning and instructional moves around incorporating SMP 1 within the lesson and the impact on student learning | * [*KAS for Mathematics*](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/Kentucky_Academic_Standards_Mathematics.pdf) * [Engaging the SMPs: Look fors and Question Stems](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/SMP_Look_Fors_and_Question_Stems.pdf) | * **Session tasks:** Create a student exemplar, video observation notes * **Self-reflection** |

**Preparation:**

This Facilitator’s Guide is designed to accompany

* [[K-5] BCML Session 4 PowerPoint](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/K-5_BCML_Session_4_PPT.pptx)

Participants should be given access to the following documents to engage in the learning for this session:

* [[K-2] BCML Session 4 Handout 1](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/K-2_BCML_Session_4_Handout_1.docx)
* [[3-5] BCML Session 4 Handout 1](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/3-5_BCML_Session_4_Handout_1.docx)

**Session Agenda Time (60-90 min)**

* Slides 1 - 4: Welcome, norms, objectives & agenda **(10 min)**
* Slides 5:Connection to Prior Learning **(5 min)**
* Slide 6: Create a student exemplar for an aligned task **(5 min)**
* Slides 7 - 9 OR Slides 10-12:Task share out, video observation, video share out **(20 min)**
* Slide 13:Connection to Equity **(5 min)**
* Slide 14: Criteria for Success **(5 min)**
* Slide 15 - 17: Reflection and closing whip around **(10 min)**

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| **Facilitator Notes** | **Accompanying Slide** |
| **Slide 1:**  **(1 min)** Welcome teachers to the session. |  |
| **Slide 2:**  **(2 min)** Facilitator says:   * “Here you’ll see our 12-week arc of learning. Can I have someone read out our guiding principle in the yellow box?” * “In green, you’ll see our four major topics of learning. For each topic of learning, we’ll engage in a three-week learning cycle that will include a shared learning session, a planning and practice session, and a student progress session. Our first topic of learning included an overview of all 8 Mathematical Practices. In the next 3 topics, we’ll narrow our focus to cover just one SMP at a time so we can better internalize and apply our learning. As you’ll see, the three SMPs we will focus on are:   + Standard for Mathematical Practice 1: Make sense of problems and persevere in solving them.   + Standard for Mathematical Practice 4: Model with mathematics.   + Standard for Mathematical Practice 3: Construct viable arguments and critique the reasoning of others.” * **“While this content cycle will do a deep dive of 3 Standards for Mathematical Practice, the KAS for Mathematics require teachers to implement all 8 Standards for Mathematical Practices. To support teachers in elevating different SMPs during their instruction, the KAS for Mathematics tag relevant SMPs to every content standard. The inclusion of those tagged SMPs does NOT mean those are the only ways students can engage in the practices while learning that content. It also doesn’t mean that throughout instruction on that content standard those practices automatically happen. How instruction is designed will determine how students engage with the content. See the** [***KY Standards Mathematics Professional Learning Modules***](https://kystandards.org/standards-resources/mathematics-resources/math-pl-modules/) **for guidance.”** * **[CLICK for animation] “**You’ll see that today we are continuing our learning with Topic 2 - Focusing on SMP 1: Make sense of problems and persevere in the solving them.” * **[CLICK for animation]** “Our first session in this topic will be shared learning, where we can build a bank of common experiences and language to use throughout this content cycle.” |  |
| **Slide 3:**  **(5 min)** Review team norms and/or facilitate a quick team connector/ice-breaker. |  |
| **Slide 4:**  **(2 min)** Ask teachers to popcorn out the objectives and agenda. Facilitator says:   * “Today’s session builds on the last shared learning session in this content cycle - now that we have a global view of what the SMPs are and how they build students’ cognitive competencies, we’ll be focusing in on SMP 1 by seeing it in action/applied during a real lesson. By having a concrete example of what SMP 1 looks like (in terms of teacher moves and impact on student learning), we’ll be better able to consider how to incorporate this SMP into our practice.” |  |
| **Slide 5:**  **(< 30 sec) Facilitator says:**   * “Let’s preview the criteria for success that will guide our learning for this entire topic. Take 2 silent minutes to mark up the MTPs that will support our students in engaging with SMP 1, **Handout 1 - Page 5**.”   **(2 min) Teachers take 2 minutes to read criteria for success.**  **(< 30 sec) Facilitator says:**   * With a partner, draw parallels between the MTPs (what teachers are doing) and the SMPs (what students are doing as a result).”   **(2 min) Teachers take 2 minutes to read criteria for success.**  **\**Note*: *Listen for and reinforce these key ideas...***   * There are many connections between the MTPs are SMPs. Teachers may highlight connects between:   + MTP 2/7 and SMP 1 - In order for students to have engage in productive struggle they must be given rigorous tasks around key mathematical concepts. Teachers must model what productive struggle looks like and create systems/structures for students to engage in whole group or small group conversation around misconceptions.   + MTP 5/8 and SMP 1 - In order for student struggle to be productive, teachers must ensure that students have differentiated access points to the key mathematics of the lesson so that all students can engage in learning. By asking purposeful questions and adjusting instructional supports based on student answers, teachers can ensure that all students can make sense of grade-level tasks. * This list of connections is not exhaustive; teachers may find other connections and justify their own rationale for how those teacher practices model, encourage, and support students in engaging with the SMPs.   **(< 30 sec) Facilitator says:**   * “As we engage in shared learning today, continue to return to these criteria and consider how today’s learning is supporting your growth and progress in these indicators.” |  |
| **Slide 6:**  **(1 min)** Facilitator says:   * “We’ll take 2 minutes to review our takeaways on SMP 3. You can revisit your notes from our first shared learning session (Session 1) or revisit the KAS for Mathematics “Engaging the SMPs: Look-fors & Question stems”.   **(2 min)** Teachers jot down their reflections on post-it notes. |  |
| **Slide 7:**  **(2 min)** Have 1 or 2 teachers share.  **(2 min)** **[CLICK for animation]** Connect teachers shared ideas and iterate the any bullets that may have been missed.  **\**Note*: *Listen for and reinforce these key ideas...***   * In the lesson, teachers and students should have common understanding of language around perseverance through explicit teaching; e.g. a teachers might incorporate this SMP by introducing it to students in student-friendly language, give an example of what this looks like during a task, have students practice or role-play incorporating the SMP, or give students clear strategies for how to employ this SMP, perhaps through an anchor chart.   + Example of explicit teacher think aloud: “First I read the problem and restate what the question is asking. This helps me create a plan and organize my thinking, like we’ve been practicing with SMP 1 *(teacher points to anchor chart).”* |  |
| **Slide 8:**  **(2 min)** Have 1 or 2 teachers share.  **(2 min)** **[CLICK for animation]** Connect teachers shared ideas and iterate the any bullets that may have been missed.  **\**Note*: *Listen for and reinforce these key ideas...***   * In the lesson, teachers and students should have common understanding of language around perseverance through explicit teaching; e.g. a teachers might incorporate this SMP by introducing it to students in student-friendly language, give an example of what this looks like during a task, have students practice or role-play incorporating the SMP, or give students clear strategies for how to employ this SMP, perhaps through an anchor chart.   + Example of explicit teacher think aloud: “First I read the problem and restate what the question is asking. This helps me create a plan and organize my thinking, like we’ve been practicing with SMP 1 *(teacher points to anchor chart).”* |  |
| **Slide 9:**  **(2 min)** Have 1 or 2 teachers share.  **(2 min)** **[CLICK for animation]** Connect teachers shared ideas and iterate the any bullets that may have been missed.  **\**Note*: *Listen for and reinforce these key ideas...***   * In the lesson, teachers and students should have common understanding of language around perseverance through explicit teaching; e.g. a teachers might incorporate this SMP by introducing it to students in student-friendly language, give an example of what this looks like during a task, have students practice or role-play incorporating the SMP, or give students clear strategies for how to employ this SMP, perhaps through an anchor chart.   + Example of explicit teacher think aloud: “First I read the problem and restate what the question is asking. This helps me create a plan and organize my thinking, like we’ve been practicing with SMP 1 *(teacher points to anchor chart).”* |  |
| **Slide 10:**  **(2 min)** Have 1 or 2 teachers share.  **(2 min)** **[CLICK for animation]** Connect teachers shared ideas and iterate the any bullets that may have been missed.  **\**Note*: *Listen for and reinforce these key ideas...***   * In the lesson, teachers and students should have common understanding of language around perseverance through explicit teaching; e.g. a teachers might incorporate this SMP by introducing it to students in student-friendly language, give an example of what this looks like during a task, have students practice or role-play incorporating the SMP, or give students clear strategies for how to employ this SMP, perhaps through an anchor chart.   + Example of explicit teacher think aloud: “First I read the problem and restate what the question is asking. This helps me create a plan and organize my thinking, like we’ve been practicing with SMP 1 *(teacher points to anchor chart).”* |  |
| **Slide 11:**  **(2 min)** Facilitator says:   * “Last topic, we watched videos where teachers incorporated a variety of SMPs in their lesson. Today, we’re going to zone in and look for evidence of SMP 1 specifically. Over the course of the year, SMPs 1, 4, and 3 will be our focus SMPs - the ones we’ll practice, reflect on, and refine. While all the SMPs are important, we believe that SMPs 1, 4, and 3 are particularly high leverage - they create a culture where students are willing to take risks and persevere through challenging math, as well as give students the methods to struggle productively as they approach grade-level work/tasks. Ultimately, developing student proficiency in SMPs 1, 4, and 3 will pave the way for our students’ development in mastering other SMPs in the future.” * **“While this content cycle will do a deep dive of 3 Standards for Mathematical Practice, the KAS for Mathematics require teachers to implement all 8 Standards for Mathematical Practices. To support teachers in elevating different SMPs during their instruction, the KAS for Mathematics tag relevant SMPs to every content standard. The inclusion of those tagged SMPs does NOT mean those are the only ways students can engage in the practices while learning that content. It also doesn’t mean that throughout instruction on that content standard those practices automatically happen. How instruction is designed will determine how students engage with the content. See the** [***KY Standards Mathematics Professional Learning Modules***](https://kystandards.org/standards-resources/mathematics-resources/math-pl-modules/) **for guidance.”** * **[CLICK for animation]** “Now that we’ve experienced a Planning and Practice session, we’ll use the lesson planning tool from that session to help us internalize the task that we will watch in today’s video. The lesson planning tool helps us identify the targets of the standard evident in a task, whether we’re planning a full lesson or simply preparing to create an exemplar student response. The same “intellectual prep” work we do when we lesson plan applies directly to internalizing tasks.” * “On Handout 1, you’ll see the lesson planning tool we introduced in Session 2. Because we’re not planning a full lesson, some of the lesson planning tool has been pre-filled or annotated for you already. We’ll be focusing on just the **Do the Math**, **Target of the Standard**, and **Standards for Mathematical Practice** portions of the lesson planning tool.”   **(5 min)** Facilitator says:   * “Let’s start by reviewing the standard and completing the task, so we can start with ‘the end in mind.’” * “Please take 5 minutes to complete the **Do the Math**, **Target of the Standard**, and **Standards for Mathematical Practice** portions of the lesson planning tool.” * **“Remember, as we engage with the new KAS for Mathematics, we may need to do additional work to break down the standard before we dive into lesson planning and creating an exemplar student response to an aligned task. Teachers are encouraged to use the** [***Breaking Down a Mathematics Standard***](https://education.ky.gov/curriculum/standards/kyacadstand/Documents/Breaking_Down_a_Mathematics_Standard.pdf) **tool (also found in the BCML Appendix) to continue to deepen their understanding of content standards.”**   ***\*Note: Upcoming Slides***   * Grades K-2, use slide 7-9, then proceed to 13. * Grades 3-5, use slide 10-12, then proceed to 13. |  |
| **Slide 12:**  **(7 min)** Review the **Do the Math**, **Target of the Standard**, and **SMP** sections on the annotated lesson plan tool. Ask teachers to also consider this guiding question as they share, “What types of methods (concrete, representational, and/or abstract) does your exemplar include? How do those methods support students in accessing the target of the standard presented in the task?”  **\**Note for K-2*: *Listen for and reinforce these key ideas...***   * The target of the standard presented in this task is conceptual understanding. Exemplar student responses might demonstrate understanding of a completed ten frame as equal to 1 group of ten. With 2 completed ten frames, students know there are 2 tens or 20 ones. The third ten frame shows 3 dots, which is equal to 3 ones. 2 groups of ten (20) + 3 ones (3) = 23. * Other responses might include representing the 10 frames as quick tens (2 lines to represent 2 tens, 3 dots to represent 3 ones), creating a number line, etc. * These tasks align to the standard because they ask students to identify and represent 2 digit numbers by using their understanding of place value. The standard and task align to conceptual understanding by asking students to draw, explain, or use number sentences to represent two-digit numbers and justify how these different representations connect to one another. |  |
| **Slide 13:**  **(1 min)** Facilitator says:   * “We’ll likely see evidence of multiple SMPs being taught by the teacher and being utilized by the students because the SMPs work in conjunction and build upon one another. While you’re encouraged to note how the teacher employs multiple SMPs, I do want us to look out for SMP 1 specifically. As you watch, record evidence of how Ms. O’Neill incorporates SMP 1 into her lesson. You might choose to **script what Ms. O’Neill says** or **describe the action** she takes. What evidence do we have of the impact of SMP 1 on student learning? What are students saying and/or doing? * **“Remember, the video we’re watching isn’t perfect instruction - Try to focus on what’s effective about the teacher moves we see here. Afterward, we’ll share our own experiences with this practice and discuss ways we can continue to evolve and refine our usage of the SMPs.”**   **(4 min)** Play [video clip](http://www.insidemathematics.org/classroom-videos/formative-re-engaging-lessons/1st-grade-math-base-ten-menu/lesson-part-1) from min 2:08 through 6:20.  **(2 min)** Facilitator says:   * “Take another 2 minutes to finish up your notes. Again, similar to last week, I’d like you to consider the “behind the scenes” prep and planning Ms. O’Neill might have done in order to incorporate SMP 1 into this lesson. Finding opportunities to amplify SMPs during our lesson doesn’t just happen; we need to effectively plan ahead to include them and make sure that using the SMPs within that lesson is a meaningful experience for our students. While we don’t see Ms. O’Neill’s lesson plan or hear about her planning process in this clip, what prep work can *infer* Ms. O’Neill did to successfully connect this specific lesson’s objectives with the SMPs? You can include those notes in the box below the chart.” |  |
| **Slide 14:**  **(5 min)** Facilitator says:   * “Let’s visit our observation notes and **[CLICK for animation]** the planning steps we’ve inferred from the video.”   **\**Note for K-2*: *Listen for and reinforce these key ideas…***   * Ms. O’Neill purposefully structured her lesson so that students could engage in one task deeply (the discussion around the number 23). * Students had clear talk stems that they could use to clarify their thinking and structure their thoughts when communicating with other students. This relates to both SMP 1 *and SMP 3*. * In facilitating the discussion, Ms. O’Neill drew student attention to the different methods one could use to determine the number displayed in the ten frames. * For one method, she elevated the groups of 2 by circling them in the ten frame; she then proceeded to connect those groups of 2 to a number sentence (2 + 2 + 2 + 2 + 2). Through these methods, Ms. O’Neill also elevated *SMPs 4 and 7* in addition to SMP 1. * Ms. O’Neill pushed students to model with mathematics by approaching the problem with different representational strategies (SMP 4); additionally, she drew students’ attention to the pattern/structure of repeated addition and connected that to multiplication (SMP 7).   **(1 min)** Facilitator says:   * “In terms of process, how did using the annotated lesson planning tool impact your lens going into the observation?” |  |
| **Slide 15:**  **(5 min)** Facilitator says:   * “Let’s visit our observation notes and **[CLICK for animation]** the planning steps we’ve inferred from the video.”   **\**Note for K-2*: *Listen for and reinforce these key ideas…***   * Ms. O’Neill purposefully structured her lesson so that students could engage in one task deeply (the discussion around the number 23). * Students had clear talk stems that they could use to clarify their thinking and structure their thoughts when communicating with other students. This relates to both SMP 1 *and SMP 3*. * In facilitating the discussion, Ms. O’Neill drew student attention to the different methods one could use to determine the number displayed in the ten frames. * For one method, she elevated the groups of 2 by circling them in the ten frame; she then proceeded to connect those groups of 2 to a number sentence (2 + 2 + 2 + 2 + 2). Through these methods, Ms. O’Neill also elevated *SMPs 4 and 7* in addition to SMP 1. * Ms. O’Neill pushed students to model with mathematics by approaching the problem with different representational strategies (SMP 4); additionally, she drew students’ attention to the pattern/structure of repeated addition and connected that to multiplication (SMP 7).   **(1 min)** Facilitator says:   * “In terms of process, how did using the annotated lesson planning tool impact your lens going into the observation?” |  |
| **Slide 16:**  **(1 min)** Facilitator says:   * “We’ll likely see evidence of multiple SMPs being taught by the teacher and being utilized by the students because the SMPs work in conjunction and build upon one another. While you’re encouraged to note how the teacher employs multiple SMPs, I do want us to look out for SMP 1 specifically. As you watch, record evidence of how Ms. Kious incorporates SMP 1 into her lesson. You might choose to **script what Ms. Kious says** or **describe the action** she takes. What evidence do we have of the impact of SMP 1 on student learning? What are students saying and/or doing? * “Just as a quick note, Ms. Kious teaches 5th grade, though the task most aptly aligns to a 4th grade standard. We can assume that Ms. Kious is using this as a building block to bridge gaps between current understanding and the demands of upcoming 5th grade standards.” * **“Remember, the video we’re watching isn’t perfect instruction - Try to focus on what’s effective about the teacher moves we see here. Afterward, we’ll share our own experiences with this practice and discuss ways we can continue to evolve and refine our usage of the SMPs.”’**   **(4 min)** Play [video clip](http://www.insidemathematics.org/classroom-videos/formative-re-engaging-lessons/5th-grade-math-interpreting-fractions/lesson-part-5) from min 1:21 through 4:17.  **(2 min)** Facilitator says:   * “Take another 2 minutes to finish up your notes. Again, similar to last week, I’d like you to consider the “behind the scenes” prep and planning Ms. Kious might have done in order to incorporate SMP 1 into this lesson. Finding opportunities to amplify SMPs during our lesson doesn’t just happen; we need to effectively plan ahead to include them and make sure that using the SMPs within that lesson is a meaningful experience for our students. While we don’t see Ms. Kious’s lesson plan or hear about her planning process in this clip, what prep work can *infer* Ms. Kious did to successfully connect this specific lesson’s objectives with SMP 1? You can include those notes in the box below the chart.” |  |
| **Slide 17:**  **(5 min)** Facilitator says:   * “Let’s visit our observation notes and **[CLICK for animation]**  the planning steps we’ve inferred from the video.”   **\**Note for 3-5*: *Listen for and reinforce these key ideas…***   * Ms. Kious acknowledges that the problem is confusing and creates a space where students feel safe to ask for support (SMP 1). The teacher encourages the students to push their thinking and persevere through the problem by asking them probing questions.   + Ms. Kious ensures that the cognitive lift remains with the students by facilitating their thinking instead of directing it “How might we change the picture or mark the image to help us see where the star is… etc”   + Giving students multiple entry points to make meaning of a problem relates not only to SMP 1, but also to *SMP 4 - Model with mathematics*. * Student work shows reflects a culture of problem-solving and sense-making - students have had exposure to multiple ways to represent fractions (standard form of number, number line, bar model, etc). While student success with these methods varies, all students have the tools necessary to engage with the problem and are encouraged to do so.   **(1 min)** Facilitator says:   * “In terms of process, how did using the annotated lesson planning tool impact your lens going into the observation?” |  |
| **Slide 18:**  **(2 min)** Allow teachers 1 minute to jot their reflection on their handout.  **(3 min)** Teachers share with an elbow partner or out loud. |  |
| **Slide 19:**  **(5 min)** Teachers read aloud CFS - teacher and student look-fors. Provide teachers with an opportunity to discuss look-fors, connect look-fors to today’s session, and add look-fors.  ***\*Note: Criteria for Success***   * In the upcoming ***Reflection and Looking Ahead*** activity, ask teachers to select 2-3 indicators that they’d like to focus on as goals for this topic’s 3-week cycle. |  |
| **Slide 20:**  **(3 min)** Teachers complete reflection.  ***\*Note: Facilitators may choose to***   * Collect page 4 of Handout 1 as an artifact of teacher learning * Have teachers bring this reflection to 1:1 coaching meetings * Have teachers bring this reflection to future Planning & Practice and Student Progress sessions |  |
| **Slide 21:**  **(5 min)** Facilitator says:   * “For today’s closing whip-around, I want to connect all of our new learning to equity, which is the driving force that pushes us to do this work and grow our practice. This is our why. Take a moment to read our closing question; then I’d like for us to whip around and share our thoughts/build upon one another’s.” * Teachers share out. |  |
| **Slide 22:**  **(2 min)** Facilitator previews next session and reminds teachers of any pre-work/action items to be completed before the next meeting. |  |