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# Pre-AP Mathematics Developing Mathematical Knowledge Within a Learner-Centered Classroom

**Overview:** A learner-centered approach helps support student engagement with critical content in the Pre-AP mathematics classroom. In this workshop, participants examine the characteristics of an engaging, learner-centered mathematics classroom through the lens of the Pre-AP shared principles and mathematics areas of focus. Participants will actively engage in a Pre-AP model lesson focused on building a safe classroom environment where students access critical content through close observation and analysis, higher-order questioning, evidence-based writing, academic conversation, and mathematical argumentation.

## **Outcomes**

*Teachers will:*

- Connect the Pre-AP shared principles and mathematics areas of focus to a safe, collaborative, learner-centered classroom.
- Plan to support student engagement in a learner-centered mathematics classroom through implementation of Pre-AP shared principles and mathematics areas of focus.

## Agenda at a Glance (In-Person)

<p style="text-align: center;"><b>Welcome and Opening</b></p> <p style="text-align: center;"><i>Establish a collaborative learning environment and introduce, at a high level, the Pre-AP Program.</i></p> <p style="text-align: center;"><i>45 minutes</i></p>
<p style="text-align: center;"><b>Why a Learner-Centered Classroom?</b></p> <p style="text-align: center;"><i>Connect engaging personal learning experiences and a professional reading to the value of a learner-centered classroom.</i></p> <p style="text-align: center;"><i>45 minutes</i></p>
<p style="text-align: center;"><b>Examining the Shared Principles</b></p> <p style="text-align: center;"><i>Identify the four shared principles common to all Pre-AP courses and explain how they support a learner-centered classroom.</i></p> <p style="text-align: center;"><i>75 minutes</i></p>
<p style="text-align: center;"><b>Experiencing a Learner-Centered Classroom</b></p> <p style="text-align: center;"><i>Examine a Pre-AP model lesson from a student perspective and analyze evidence of the Pre-AP shared principles and mathematics areas of focus within the lesson.</i></p> <p style="text-align: center;"><i>1 hour and 45 minutes</i></p>
<p style="text-align: center;"><b>Building a Learner-Centered Classroom</b></p> <p style="text-align: center;"><i>Connect the Pre-AP shared principles and mathematics areas of focus to the participant's own classroom instruction.</i></p> <p style="text-align: center;"><i>20 minutes</i></p>
<p style="text-align: center;"><b>Reflection and Closing</b></p> <p style="text-align: center;"><i>Synthesize the day's learning to connect best practices and support participant action steps.</i></p> <p style="text-align: center;"><i>10 minutes</i></p>

## Agenda at a Glance: One-Day Model (Virtual)

Below is a sample agenda of a Pre-AP Readiness Workshop scheduled for one day. One-day workshops are 6 hours total (5 hours of instructional time, 1 hour of break time). There is a maximum of 28 participants per workshop.

Day One Schedule – 6 hours	
<b>Segment 1</b>	Welcome and Introduction to Pre-AP
<b>Segment 2</b>	Exploring the Pre-AP Shared Principles and Areas of Focus
<b>Segment 3</b>	Model Lesson and Classroom Application
	Lunch
<b>Segment 4</b>	Model Lesson and Classroom Application
<b>Segment 5</b>	Collaborative Planning
<b>Segment 6</b>	Group Share
<b>Segment 7</b>	Reflection and Next Steps

## Agenda at a Glance: Two-Class Model (Virtual)

Below is a sample agenda of a Pre-AP Readiness Workshop scheduled across two classes. Participants meet twice within two weeks for 2 hours 30 min each class. There is a maximum of 28 participants per workshop.

Class One Schedule – 2.5 hours		Class Two Schedule – 2.5 hours	
<b>Segment 1</b>	Welcome and Introduction to Pre-AP	<b>Segment 4</b>	Welcome Back
		<b>Segment 5</b>	Model Lesson and Classroom Application
<b>Segment 2</b>	Exploring the Pre-AP Shared Principles and Areas of Focus	<b>Segment 6</b>	Collaborative Planning
<b>Segment 3</b>	Model Lesson and Classroom Application	<b>Segment 7</b>	Group Share
		<b>Segment 8</b>	Reflection and Next Steps