

**PLC Guide:** The following is a sample protocol that school-wide or teacher PLC teams might use to reflect on the characteristics of engaging mathematics instruction. This should take approximately 45 minutes.

**Focus: NCTM Mathematics Teaching Practices**

<p><b>Step 1:</b></p>	<p>Download the PowerPoint entitled “NCTM Mathematics Teaching Practice” from the “For Leaders” section of the TDOE website.</p> <p><b>PRIOR:</b> Participants will need to be given copies of the following documents:</p> <ol style="list-style-type: none"> <li>1. Frayer Model NCTM Math Teaching Practices</li> <li>2. NCTM Mathematics Teaching Practices</li> <li>3. Principles into Action Executive Summary</li> <li>4. Chart Paper</li> </ol>
<p><b>Step 2:</b></p>	<ol style="list-style-type: none"> <li>1. Begin by asking participants to independently complete the Frayer Model template document.</li> <li>2. Once everyone has had a few moments to work independently, ask them to work in groups of two to four members to combine their charts and their best ideas.</li> <li>3 Using chart paper, have them draw a Frayer Model on the chart paper, recording their best collective ideas.</li> </ol>
<p><b>Step 3:</b></p>	<ol style="list-style-type: none"> <li>1. Now pass out the NCTM Mathematics Teaching Practices document.</li> <li>2. Following the instructions at the top, have the participants <u>UNDERLINE</u> those characteristics that are similar to their group’s Frayer Model and circle those characteristics that they would like to add to their Frayer Model.</li> <li>3. After the group has read the “NCTM Mathematics Teaching Practices”, have them work as a group to complete the center rectangle of their Frayer Model.</li> <li>4. In the center ask the group to write their best summary of what excellent math instruction should encompass.</li> <li>5. Ask each group to share out their completed Frayer charts.</li> </ol>
<p><b>Step 4:</b></p>	<p><b>Reflection:</b> Ask the teachers to pick 3 practices that they feel confident about their level of implementation in their classroom, 2 practices they need to improve upon, and one practice they would like to learn more about.</p> <p>Ask each teacher to pair up with a partner. The goal is for each partner to set a date for a peer observation. In the observations, they will look for one of the discussion practices in action. Each group will schedule 30-minute observations with their peers and schedule a follow-up meeting to discuss the evidence for the NCTM Mathematics Teaching Practices that they saw in their colleagues’ classrooms.</p>
<p><b>Step 5:</b></p>	<p><b>Follow-Up:</b> The leader or administrator could bring the whole group back once all peer observations are complete for a debriefing on lessons learned.</p> <p>For additional information and support, ask participants to use the document entitled, “Principles into Action Executive Summary” with additional activities.</p>