

Key Components of Anticipating

What it Takes	Key Questions
A. Getting Inside the Problem	<p>How do you solve the task?</p> <p>How might students approach the task?</p> <p>What challenges might students face as they solve the task?</p>
B. Planning to Respond to Student Thinking	<p>What assessing questions will you ask to draw out student thinking?</p> <p>What advancing questions will help you move student thinking forward?</p>
C. Planning to Notice Student Thinking	<p>What strategies do you want to be on the lookout for as students work on the task?</p>

Challenges Associated with Anticipating

Challenge	Description
1. Moving Beyond the Way You Solved the Problem	Teachers often feel limited by their own experience. They know how to solve a task but may not have access to the array of strategies that students are likely to use.
2. Creating Questions that Move Students Towards the Mathematical Goal	The questions teachers ask need to be driven by the mathematical goals of the lesson. The focus needs to be on ensuring that students <i>understand</i> the key mathematical ideas, not just producing a solution to the task.
3. Being Prepared to Help Students Who Cannot Get Started on a Task	Teachers need to be prepared to provide support to students who do not know how to begin work on the task so that they can make progress without being told exactly what to do and how.