| 1. Understand the problem | |
|--|---|
| Check for understanding | Students describe problem in familiar terms. Students underline important information in problem. Teachers ask: "What is the problem asking you to do? What do you know that can help you figure this out?" Students define new words and begin using them in sentences. |
| Teacher deliberately incorporates ESL strategies | - Students use a picture, diagram, or some type of mathematical representation to concretely model problem. |
| Teacher maintains high expectations and recognizes students' intellectual assets | - Teachers look for opportunities to highlight students' mathematical ideas with other students. |
| 2. Create a plan to solve the problem | |
| Students create plan to solve problem | Teachers ask: "What strategy, representation or tool will work best to solve the problem?" Teachers assess student understanding of their plan. |
| Teacher deliberately incorporates ESL strategies | - Teachers integrate graphic organizers and mathematical models during small group instruction and discourse. |
| 3. Carry out the plan to solve the problem | |
| Teacher engages students in mathematical discourse and meaning making | Teachers engage whole class in mathematical discourse and ask questions while highlighting student work. Teachers integrate the mathematics register in discourse and instruction. |
| Teacher continues to use deliberate ESL strategies | - Teachers use gestures, cognates, revoicing, graphic organizers and mathematical models. |
| Students refine and revise their solutions | - Teachers do not need to be overly concerned in this stage about students' production of "correct" English. |
| 4. Looking back | |
| Students reflect on their solutions | - Teachers ask: "Does your solution make sense? How do you know? What questions do you still have at this point?" |
| Teacher works to help students use the formalized mathematics register | - Students write up their final solution to the problem using the mathematics register. |

The Discursive Instructional Mathematics Protocol