**Classroom Implementation**

**Task:** Collaborate with school team members to create an instructional unit based on solving a contextual problem that integrates math and science concepts. (See the garden weed control problem in Session 3 as an example.) Ensure that the unit addresses the following:

**Plan and Design**

1. The plan and design must be done collaboratively as a team. This phase should involve more than one meeting.
2. The instructional unit should include multiple lessons, including instruction on math and science topics that are prerequisites for researching and solving the problem successfully.
3. Teachers should list the TEKS that are addressed by the instructional unit.
4. Once developed, the contextual problem should be assigned to student teams of three to four members each and include team member roles and responsibilities.
5. As part of the designed unit, students will use technology appropriately in the research and delivery/presentation of their results.
6. A requirement of the designed unit must be that students cite and reference their resources to appropriately address copyright issues.
7. The instructional unit should include formative assessment and an explanation or rubric regarding the evaluation of the solution/process of the student teams. (This step should be an opportunity for math and science teachers to be creative in how grading will be done for their respective math and science courses.)
8. To the extent possible, the instructional unit should utilize community resources or professional expertise.

**Implementation**

9. To the extent possible, pilot the lesson(s) and include observations by peers or external partners. Debrief following the observed lesson(s) to discuss how the unit can be improved.
10. At appropriate times during this process, meet as a team to review student work; use this meeting as a means to improve the instructional unit.
11. The instructional unit should be archived and become a part of the school’s or departments’ resource pool of instructional materials. The instructional unit should be used and improved upon annually.

**Reflection**

12. Meet as a team to reflect on what was learned regarding teachers’ own expertise in content and pedagogy. Also, reflect on how the process facilitates and encourages teacher collaboration and how such efforts can be continued so that they become an embedded practice at the school.