REPRODUCIBLE

Figure 2.5

Mathematics Instruction and Higher-Level-Cognitive-Demand Mathematical Task Development Tool

Directions: Use these questions to allow for deep discussion of each higher-level-cognitive-demand mathematical task.

| matnematical task. |
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| 1. Why did you select or create this task? |
| 2. How would you modify the task to increase its potential to engage students? |
| 3. What is the targeted learning standard for this task? |
| 4. What is the real-life topic of this task? What other real-life topic might be useful as a context for the same mathematics in the task? |
| 5. What can you learn about students as they engage in and respond to the task? |
| 6. How might you provide scaffolding to a student who struggles without lowering the cognitive demand of the task too much? |
| 7. What do you expect students' wonderings and questions to be regarding the task? |
| 8. What do you expect students' misunderstandings to be regarding the task? |
| 9. What might make the mathematics of the task less or more challenging to meet the needs of students? |
| 10. How do you propose assessment of the task should be effectively managed and facilitated? |
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