

## Thinking Mathematically: Reflection Questions

**1** Think about the primary neurodevelopmental demands of mathematics as they were described in podcast segments 2 and 3. How does this description of the understanding and recall parts of mathematics affect your understanding of the demands of your math curriculum? In what ways does your curriculum emphasize any particular Construct(s)?

**2** Select a math concept from your curriculum and think about the neurodevelopmental demands of this concept. Brainstorm strategies for differentiating your instruction of this concept so more student gain access to the information. What neurodevelopmental demands will your instructional strategies place on students?

How might you talk with your students about the learning demands of your lesson?

**3** SELECT ONE OF THE FOLLOWING:

**Elementary:**

Describe the similarities and differences between the layered mathematical challenges described in Segment 4 and your math curriculum. What value do you see in the layered approach to elementary math challenges?

**Secondary:**

The Seven Layered Challenges of Elementary Mathematics presented in Segment 4 describes core mathematical concepts to be mastered in the elementary grades. What do you feel are the core concepts secondary math students should master (i.e., their “challenges”)?