

## **Explicit Teaching in Problem-based Mathematics Build Connections From One Learning Experience to The Next**

[MUSIC]

NARRATOR 1: Build connections from one learning experience to the other.

NARRATOR 2: Intentionally link the understandings students demonstrate today to the learning that will do tomorrow. Design connected learning experiences that make explicit the relationships between and among mathematical concepts and skills. Which needs to be introduced, revisited, or extended? When is strategic practice or a guided approach needed to consolidate learning? For which students? And in what ways?

BRENDA KRESS: All right, so we know we have to make three moves, so I've had some questions about what these three moves look like. So one move might be--that's one more okay? Two moves. Three moves all right? Now I'm gonna test that out to see if that is the greatest perimeter I can make, all right? If you've tried it out and that is. So I could put it back to my box like this all right? And I might do something like one, two, three.

So the purpose of this game is to take the learning that emerged from the task earlier on to see that if they can understand the concepts that came out of that and apply it by creating different perimeters with different areas. So instead of always working with an area of 6 they move to an area of 8, and then 10 and trying to really get at that concept of the one that sides are exposed the greater their perimeter. So that's what I'll be looking for to see if they can take that and apply it to this game.

ALLISON BERSCHT: So right now my students have been presented with some tasks that have different entry points. So based on the last lesson that I saw based on the degree of the student's understanding they're being presented with different tasks that elicit what they already know. So some students who may require more practice with perimeter and area, and finding the relationship between will start with some specific tasks while other groups will be given tasks that allow them to dig deeper into the concept and go beyond.

[MUSIC]