**Teaching Math Through Games: Professional Development Module**
**Transcript for Slide 10 – Let’s Observe – Watch Together**

Teacher: We're gonna play a game. Would you like to play a game? It's a cup game. And

I'm gonna give everybody some numbers. I'll give you these numbers. So pick a number, and see how many cups you want.

Student 1: Four.

Teacher: Okay, you want four. So I'm gonna give you four cups. One, two, three, four. And

what number do you have?

Student 2: Four.

Teacher: You have four, so I'm gonna give you four green cups. One, two, three... and four.

And what number do you have?

Student 3: Five.

Teacher: You have a five. We're gonna give you one, two...three, four, and five. Okay, with

my game, we're gonna be an engineer, okay? We're gonna make a tower, and let's just see how high, how tall can you make your tower? (unintelligible) Put that away. Alright, so can you make a tower for me and see how tall you can make your tower?

(time lapse)
Teacher: Look at your towers. Now, Brendan, you have how many cups?

Student 1: One, two, three, four.

Teacher: Four. If we added one more cup, how many cups would you have?

Student 1: Five.

Teacher: Five, so I'm gonna give you one more cup. See if you can even make it taller! Okay, how about you Kahlil, how many cups do you have?

Student 2: One, two, three, four.

Teacher: You have one, two, three, four. What if we added one more cup?

Student 2: Five!

Teacher: You would have five. Do you wanna see if you can make your tower even taller? Oh my goodness, you might have to stand up, Kahlil, to reach it. Turn them that way... He has five cups in his tower, that's a tall tower! How many do you have in your tower?

Student 3: Five.

Teacher: You have five, what if we added one more cup? How many cups would you have?

Student 3: Six.

Teacher: You'd have six. Here's your sixth cup. See if you can make your tower even taller. Oh my goodness, look at these towers! What if we subtracted, or took away, one cup? You can take away one cup. Now how many cups do you have? Count them.

Student 1: One, two, three, four.

Teacher: Count, one... Whoops! We knocked it down. That's right, you had four. Alright, can you take away? Can you subtract one cup? How many cups do you have now? One, two, three, four. Four cups. Can you subtract one cup, Neela? Take away one cup. How many cups do you have now?

Student 3: Five.

Teacher: You have five cups.