Hook Sample

Analyzing Quadratic Functions

Headline/Title: Rubix Cube
Learning Targets: Competing the Square

Description: Teacher provides student groups (pairs or individuals depending on number available – may substitute with a simple puzzle) with a SOLVED Rubix® Cube. Make sure that students do not manipulate it!

1. Think-Pair-Share:
   o Think: Ask students to answer the following question alone: What do you notice about the cube? (10 seconds)
   o Pair/Group: Have students share their thoughts in the group (10 seconds)
   o Share: Have student groups write their response on a post-it note and place it on the board. (10 seconds)

2. Teacher instructs students to mix the cube up (manipulate it)

3. Teacher instructs students to “solve” the mixed up cube (30 – 60 seconds) and write down their approach to “solving”

4. Think-Pair-Share:
   a. Think: Ask students to compare and contrast the similarities and differences between mixing the cube up and solving the cube. **Which process is easier? Why?** (45 seconds)
   b. Pair/Group: Students share their thoughts in the group (15 seconds)
   c. Share: Post-it note share → Student groups share responses on board