



Panic Button 3

Grade Level: 4

OBJECTIVE(s): To explore in base 4

RESOURCES/MATERIALS: Cuisenaire Metric Blocks 3 unit cubes (natural) 3 four rods (purple) 3 four squares (purple) 1 four cube (purple)

ACTIVITIES AND PROCEDURES:

1. Count up to 3 ones and say, one more will make it a four.
2. Place a fours rod by the 3 ones and show that the fours rod has one more unit than the 3 ones. Then say four has its own place.
3. Take the ones away and show the fours rod.
4. Count up to 3 fours and say, one more four will make it a sixteen.
5. Place a fours square to the left of the 3 rods to show that the fours square has one more rod than the 3 rods. Then say, sixteen has its own place.
6. Take the fours rods away and show the fours squares.
7. Count up to 3 sixteen and say, one more sixteen will make it a sixty-four.
8. Place the fours cube to the left of the 3 squares to show that the fours cube has one more square than the 3 squares. Then say, sixty-four has its own place.
9. Take the fours squares away and show the fours cubes.

SUGGESTIONS/MODIFICATIONS:

- Have the students make the materials needed for the project.
- Explain to the students the importance of the squares of numbers in calculating math problems quickly and easily.
- Have the students come up with other ways in which the game can be played.

AUTHOR: Veronica Paget, Beverly Church, Jim Skibby, Jean M. Hotchkiss, Alice T. Yonemitsu, Aiko Kimura