Joan Caulfield-Wang
Patterning
Algebraic Relationships, Geometry
Core: Generating and extending patterns, naming patterns in general/universal terms:
(i.e. AB, ABC, ABB, AAB)
Primary, Grade 1
This would be done after discussing the geometric shape names, and the understanding that patterns are repetitive.

Task:
Use 3 circles, 3 triangles, and 3 squares to make a pattern. All shapes are blue.
1. Draw your pattern.

2. How many other patterns can you create using these 9 shapes?

3. Would your pattern change if all triangles are yellow? Draw your pattern.

4. Would your pattern change if only 2 squares are red? Draw your pattern.

Extension Activities:
We will use a student generated pattern (that all students will recreate at their table), to extend the pattern.

1. What will the 11^{th} shape be? the 17^{th} shape?

2. How could we name this pattern without using shape names? Write the way you would name this pattern.

3. Can we come to an agreement to use one way to name patterns? (AB, ABC, AAB, ABB)

4. What patterns can you create using 3 circles and 6 squares?

5. How could we name this pattern?

Joan Caulfield-Wang
Money
Calculations and Estimations, Measurement
Core: Coin value, combinations of coins, number sense – skip counting 10's, 5's
Primary, Grade 1
This would be done after discussing the names and values of each coin, and practice skip counting by 10's and 5's in a variety of settings – i.e. finding patterns on a hundreds chart.

Task:
Kendall saved 5 dimes in one week. The next week, he saved 4 dimes. How much money did he have then?

1. Draw a picture of the coins.

2. Write a number sentence to go with the coins you drew.

3. What other coins could you draw to show the same value?

4. Write a number sentence to go with the coins you drew.

Extension Activities:
1. Choose some toys from the next page. What toys can Kendall buy with the money that she has?

2. What are the most toys that Kendall could buy?

3. What if Kendall only has 42 cents? Draw the coins that she could have.

4. Write a number sentence to go with the coins you drew.

5. What toys could Kendall buy now?

6. What are the fewest toys that Kendall can buy?