**Activity:**

**Create Your Own Sequences**

**Picture Sequences:** Pick a polygon of your choice (ie: a triangle, square, etc.). Draw 5 of these polygons in a row. Draw a line in the first figure. Now duplicate what you drew in the other 4. In the first figure, shade one side of the shape. In the next 4, alternate which side you shade. Pick a symbol (ie: a dot, etc) and place it in the unshaded side of the first polygon. In the next 4, move your symbol around clockwise or counterclockwise in a pattern. Now you have a figural sequence.

Make your own sequence of pictures:

**Letter Sequences:** Pick a starting letter: _______. Pick a number: _______. Now decide whether you want to go forwards or backwards _______. Write your starting letter below. Go the number of letters forward (or backward) that you picked in the alphabet. Write that letter down. Repeat until you have 5 letters. Note: when you get to z, go next to a and start over (if you’re going backwards, when you reach a go next to z).

Make your own sequence of letters:

**Number Sequences:** Pick a starting number _______. Pick something to do to that number (ie: add 2, multiply by -3, add 4 and then multiply by \( \frac{1}{2} \), etc.) _______________________________. Write down your starting number. Do the “something” you picked to your starting number. Write down your new number. Do the same “something” you picked to your new number. Write down that result. Continue until you get 5 numbers.

Make your own sequence of numbers:

**Fraction Sequences:** Make 2 number sequences of your own. Place one of them on the top of your fraction lines, and place the other on the bottom of your fraction lines. Be careful that the sequence you put on the bottom doesn’t have any terms that are zero.