***Folding Paper***

1. Fold your paper in half. Open the paper and count how many regions this created on your paper (see figure)

1 2 1 fold yields 2 regions

2. Refold the paper then fold it in half again. How many regions do you now have on your piece of paper?

3. Repeat this, folding the paper in half a third time. Count the number of regions you now have on your paper.

4. Organize your data in a table. Do you notice a relationship between the number of folds and the number of regions? How would you describe the pattern? Write it in words or symbols.

5. Without folding the paper, if you continued this process until you folded your original piece of paper 10 times, how many regions would this create?