

# Paper-Folding Explorations

What are the dimensions of your paper?

How thick is one sheet of paper? Explain how you decided on your answer.

Describe how you folded the paper.

Record data in the following table based on the size and thickness of your paper:

Number of Folds	0	1	2	3	4
Thickness of Stack					
Area on Top of Stack					

5	6	7	8	9	10

Were you able to fold the piece of paper in half 10 times? Why or why not?

Create a formula that approximates the height of the stack after  $n$  folds.

Create a formula that will give you the approximate area of the top after  $n$  folds.