**CHALLENGE 3: Make the strongest bridge using only one piece of paper!**

Now it's your turn to use science to build a bridge that can hold the most paperclips! You can cut it, fold it, and/or tape it however you want. You also get to put the paperclips on the bridge yourself! The only rule is that your bridge must be at least 5 inches long total, so one inch can be attached on top of the table, while 4 inches hang off. Compete with your friends to see who can add the most paperclips before their bridge bends past 2 inches.

Based on Challenge 1:
When you test your bridge, where on the paper should you start adding paperclips so it bends down the least?

A) Closer to the table
B) Farther from the table
C) Right in the middle

Based on Challenge 2:
What direction should your bridge be turned so it is the strongest?

A) With a short edge along the table, so the bridge is long and skinny
B) With a long edge along the table, so the bridge is short and wide

Should you think about folding your paper to make your bridge shorter and thicker?

A) No, because a longer bridge is stronger
B) Yes, because a thicker bridge is stronger

Remember: your bridge does not have to be a rectangle! Try folding it into a triangle or hexagon, rolling it, twisting it, cutting it; anything you can think of!

Work with your team to draw some ideas here.