

Inside Circle of Skin (for overlap)

Location of Stringer #1

Location of Stringer #2

Location of Stringer #3

Outside Circle of Skin (will overlap on top of skin on other side)

Paper Rocket Structure Design by Roy Myose (Wichita State University)

<= Cut along this dashed line (& use this half as one of three stringers)*

<= Place Q-tip #1 at left end and Q-tip #2 at right end =>

Use the Q-tips to tightly roll up this half sheet into a very small diameter

Once rolled up, use tape to keep the size of the stringer very small

Repeat to create a total of three stringers

Place the stringers at the locations indicated & tape it to the skin

Finally, form the skin into a circular cylindrical shape
by overlapping the bottom outer skin on top of the top inner skin;
make sure to tape the outer skin to the inner skin & stringer #1

*Use a paper cutter to cut four sheets of paper at the same time so that the
skin and the three stringers all have the exact same length (i.e., height)