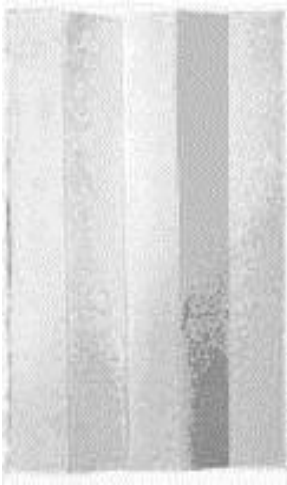
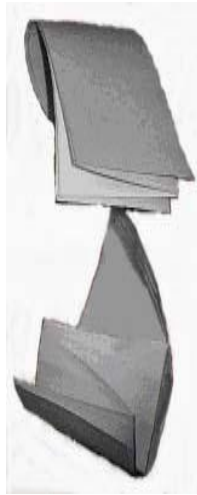


## Transforming a plane to a sphere



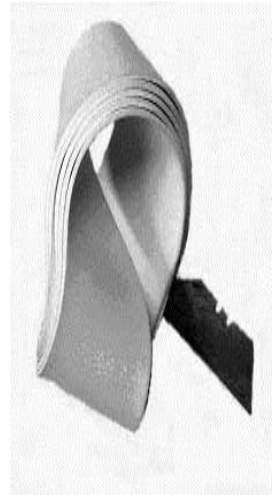
Paper with corrugated fold laminates

Step #1



Twisted to form a Mobius Ring

Step #2



cut to separate

Step #3



Delaminated to form Mobius sphere

Step #4

Separating the laminated layers of a Mobius ring and compressing the twist forms a sphere as shown above whose area is equal to the area of paper divided by  $\pi$ ; the rings will be juxtaposed provided the paper's length (L) width (W) ratio is  $N/(2n+1)$ , where the fold width (f) =  $L/N = W/(2n+1)$ . N= the number of laminate rings and n= the number of folds, two folds make a laminate ring.

Note: When a  $90^\circ$  twisted ring is laminated the laminating ring is a ribbon twice as long as the initial ribbon used to form the Mobius ring and is twisted  $720^\circ$ , the laminating ribbon is passed through the Mobius before twisted and joined.