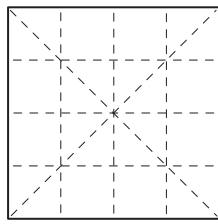


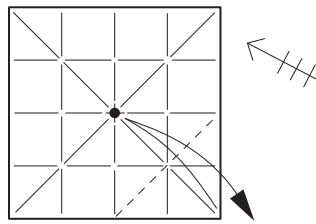
SPIKE BALL MODULE
 by Rona Gurkewitz & Bennett Arnstein
 Page 1

Start with the Froebel unit, invented by Frederick Froebel, also known as the Pinwheel, or Windmill.



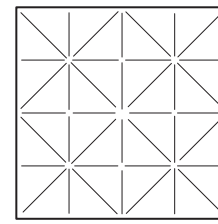
①

Cupboard-door fold in both directions, and crease both diagonals, all valley creases.

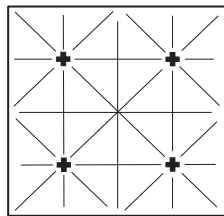


②

Fold one corner to the center, and then unfold. Repeat at the other three corners.

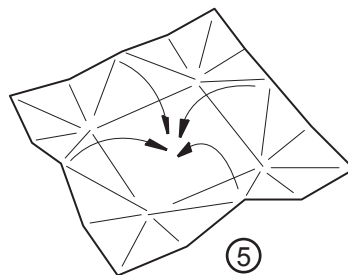


③



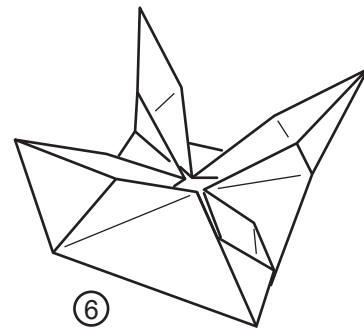
④

Push down on the four points **+**. The sides and corners will lift up slightly.



⑤

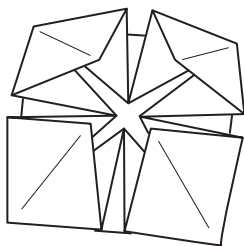
Move the center of each side to the center of the square. Upright vanes form, with one corner of the square at the tip of each vane.



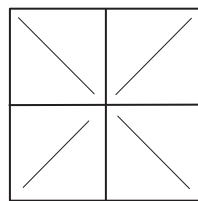
⑥

This completes the basic Froebel unit. Rather than flatten the vanes to form a windmill, spread open and squash each vane flat, making the four corners meet at the center.

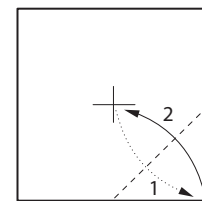
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⑦



⑧

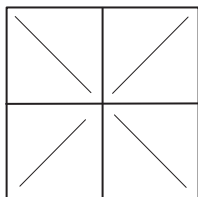


⑨

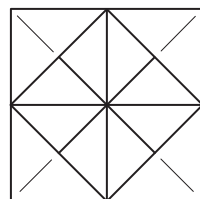
Two things must now happen at each corner:

- (1) Let the corner point on the bottom layer swing out away from the center without making a crease on the bottom layer.
- (2) Fold the corner point on the top layer in to the center, making a crease on the top layer.

Repeat at the other three corners.



⑩



⑪

Mountain-fold both diagonals by sharpening existing creases.