Complex A 25" square makes a 5" board









1. Pinch in half.

2. Pinch again.

gain.

3. Valley corner to crease.

4. Turn over.





- 5. Valley to intersection 6. U of raw edges.
 - 6. Unfold.
- 7. Precrease section into fourths.









- 9. Precrease, using the intersections of diagonals as a guide.
- 10. Divide each section further into fourths.
- 11. Add additional precreases (divide the indicated columns and rows in half). Rotate model.



12. Valley the corners in (one unit).



14. Valley the edges to the nearest crease.





13. Valley inwards. This fold is touching the folds made in step 11. Turn over.



15. Valley, swinging the flap from behind to the forefront.



16. Turn over.

17. Repeat steps 13-15 on the other side.



18. Turn over and rotate.



20. Valley in half while incorporating reverse folds. Rotate model.



22. Valley down.

19. Repeat steps 12-17.



21. Swivel in sides. The layers will overlap at the top corners.







24. Valley down sides.



25. Wrap around top point, reversing at the bottom corners. Repeat on other side.



26. Squash. Repeat at other side.



27. Flip the square. Repeat at the other side.



30. Reform, changing the direction of some of the folds. Form the horizontal mountain folds first. Repeat steps 29-30 at bottom.



33. Repeat steps 31-32 on the remaining three hems.



34. Mountain in half while incorporating reverse folds.



29. View from step 28. Spread apart the pleats. Rotate model.



28. Spread squash the bottom,

swing outwards.

allowing the side flaps to

31. Pull out single layer (you will have to raise the flap slightly to do this).



32. Open out the hem forming a squash at the top.



35. Swivel in the sides.





45. Spread squash the corner. The section will not lie flat.



46. Close back up.



47. Closed sink the top corner while collapsing the bottom point and swinging it upwards.



48. Swing down.



49. Valley back up while incorporating a reverse fold.



50. Valley down.



51. Unsink a single layer



52. Open out slightly and release a single layer.



53. Wrap around a single layer.



54. Reverse fold (you will have to raise the flap slightly to do this).



55. Swing flap up.



56. Collapse the flap downwards.







57. Swing down lightly.

58. Swivel over.

59. Swing back up.





- 60. Repeat steps 48-59 at the left and 44-47 at the right.
- 61. Crimp the side squares inwards while collapsing the center square downwards. Allow the squares to interlock.



62. Open out, folding the center square out of the way.



This model was inspired by the successful chess boards of Stephen Casey and John Montroll. I am especially thankful to John, for sharing his trials and tribulations with this subject matter.

square.