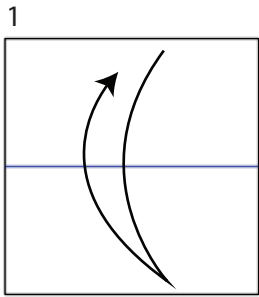


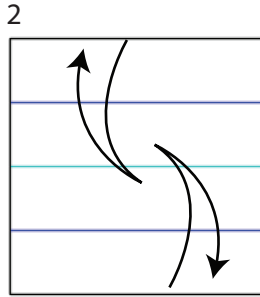
Shell Diagrams for Flying Turtle

Page 1

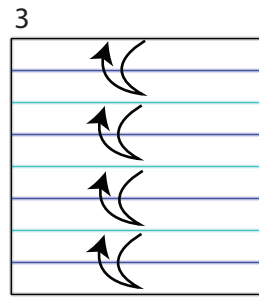
Shell pleats testfold sequence



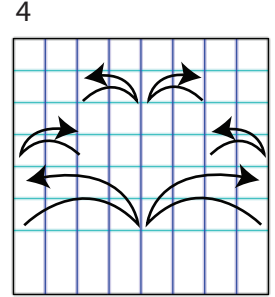
Fold in half then unfold



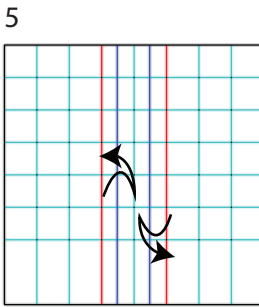
Fold to center line then unfold



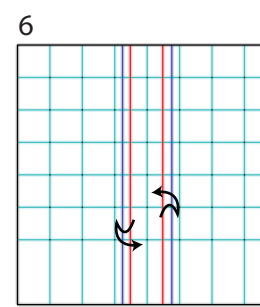
Fold 1/4ths into 1/8ths
(Reverse the creases from last step into mountain folds then bring them to the adjacent crease mark)



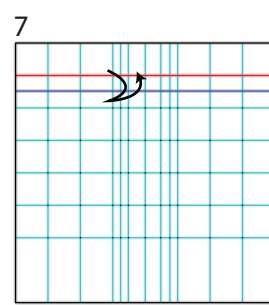
Fold into 8 sections vertically
(same as steps 1-3)



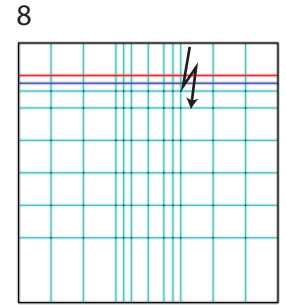
Fold edge to crease line and unfold (1/16th)
(always reverse creases as necessary)



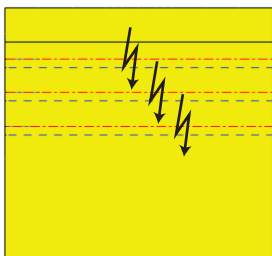
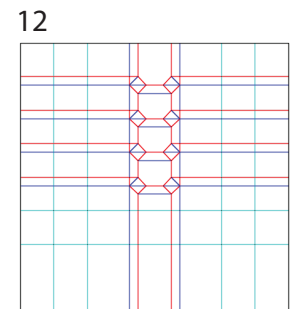
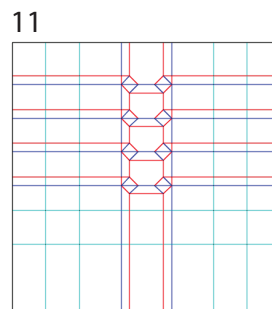
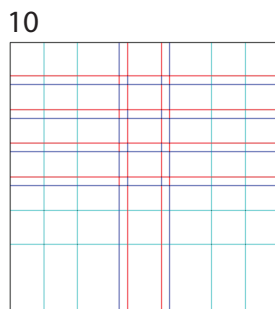
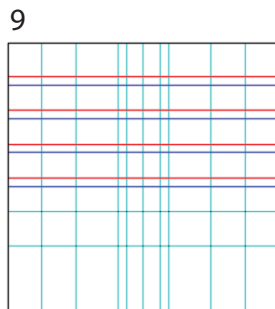
Fold edge to crease line and unfold (1/32)



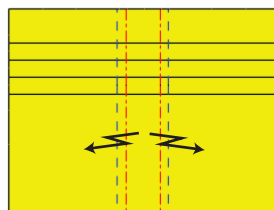
Fold to crease and unfold (1/16th)



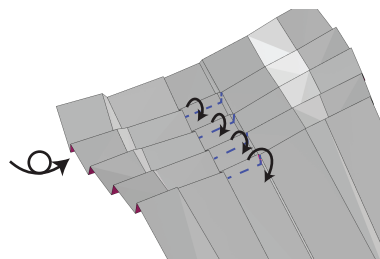
Fold to crease (aka pleat) (1/32rd)



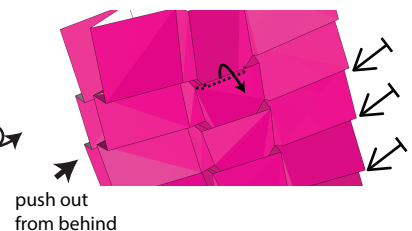
Repeat steps (7-8) on the other 3 creases



Pleat along existing crease lines (1/32ths)
Turn model over



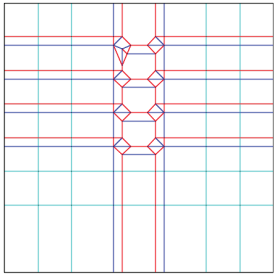
Shift pleats downwards as far as possible
(swivel on the sides)
Turn back over



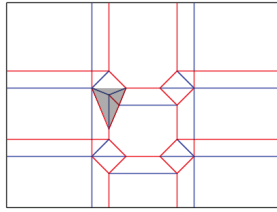
push out from behind

Unsink using the diamond creases created last step
(pull out flap and fold down)
Repeat 3x

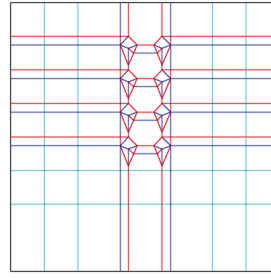
13



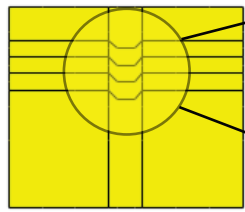
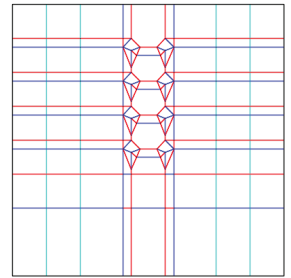
14



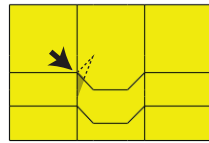
15



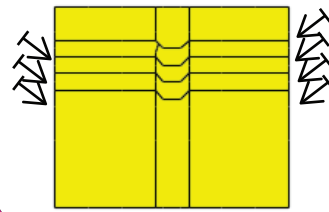
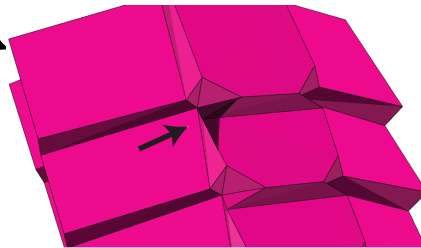
16



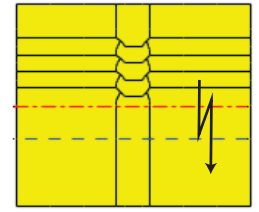
Focus on this part



Open sink shaded region
(approximate)

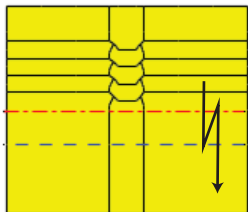
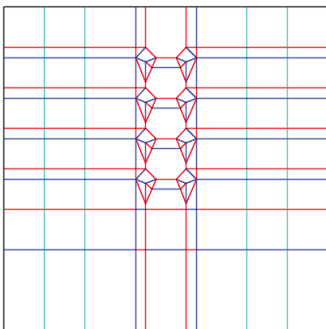


Repeat last step on all
sides (7x)



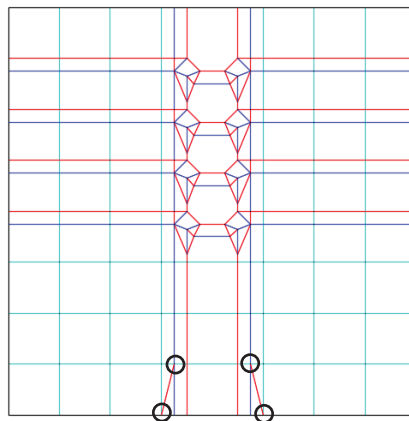
Pleat along existing creases
from step 3

17

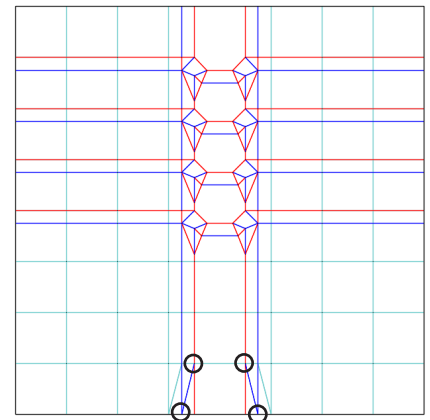


Pleat along existing creases
from step 3

18a



18b

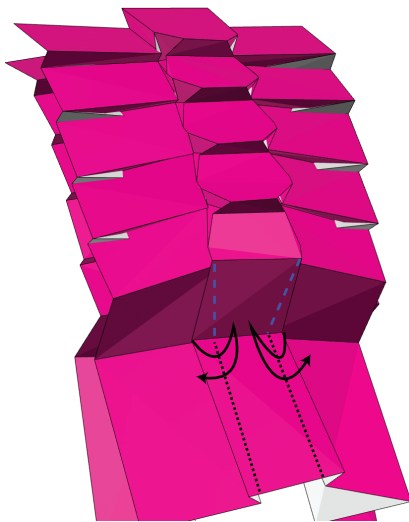
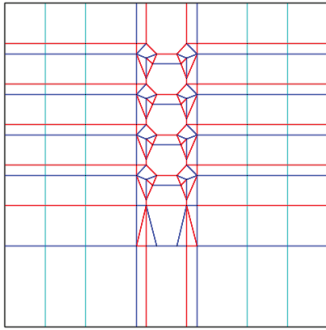


Unfold bottom pleats slightly to pinch the crease lines
between the circled intersections

Flip over for step 18b

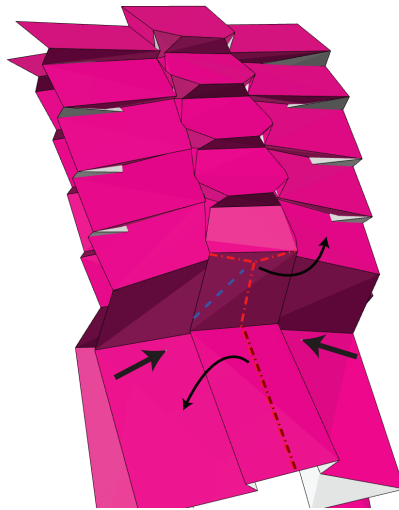
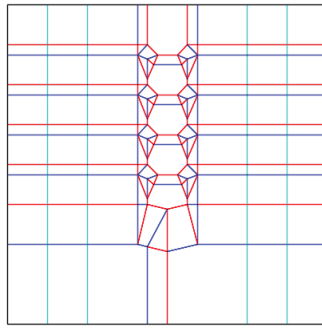
(crease pattern doesn't flip, but you should be pinching mountain folds
(precreasing for flippers))

19



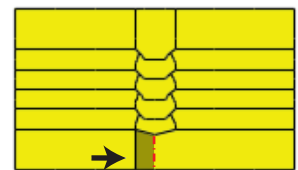
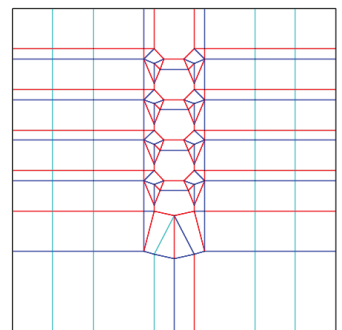
Valley fold and unfold
(not flat, check cp)

20



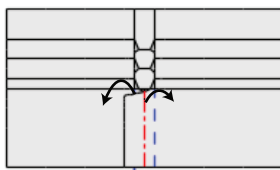
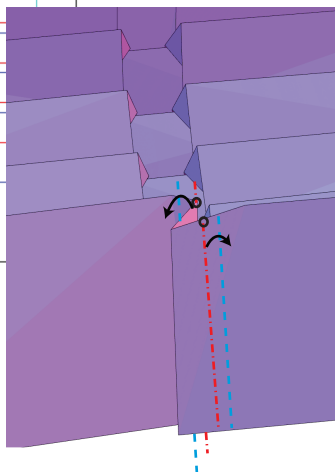
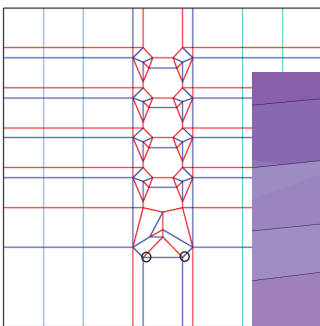
Pinch center line and swing left
(use mountain fold creases
created in last step)

21



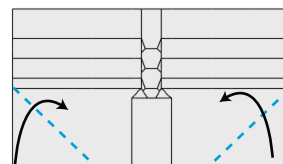
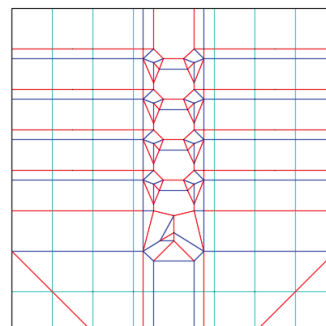
Open ink shaded region
Flip over

22



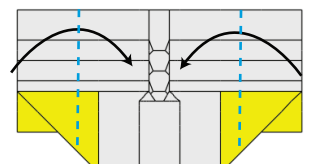
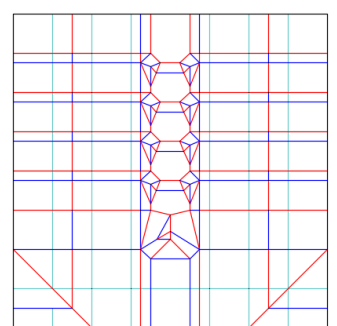
Spread squash along existing creases
(pull the circled regions apart)

23

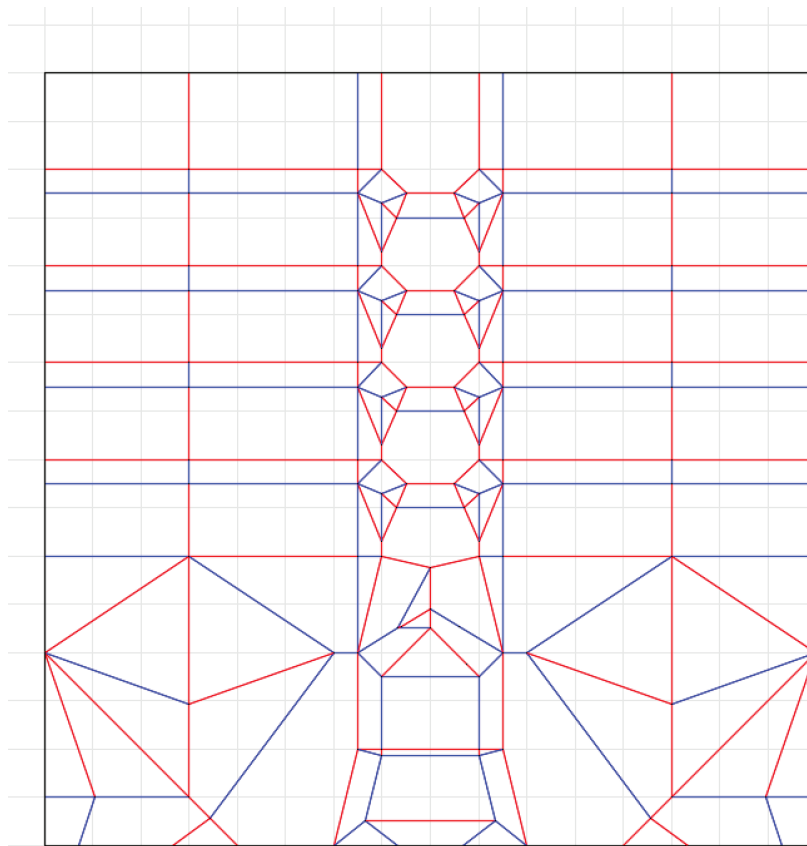


Fold corners over along grid
intersections

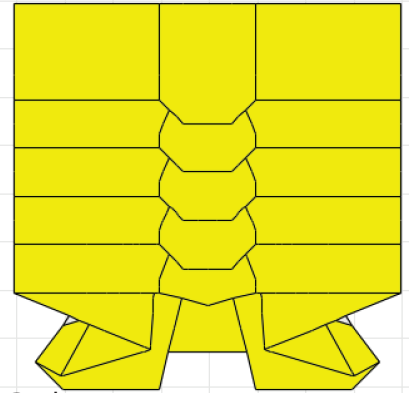
24



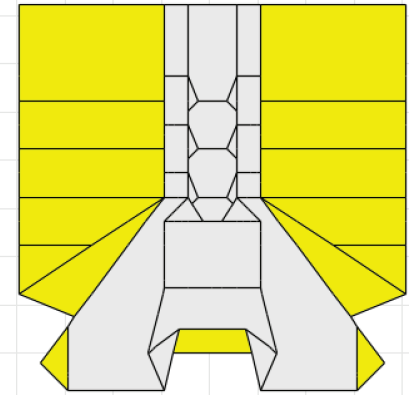
Bring outside edges inwards
to existing crease
(fold over to the 3rd grid units
from side)
(Remains slightly open
to work on next step)



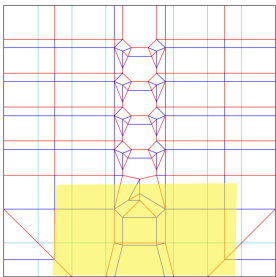
Front



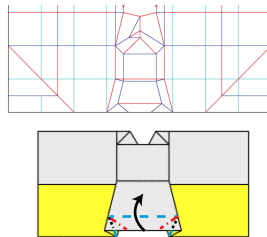
Back



25

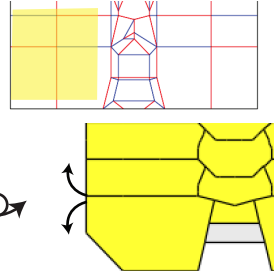


26



Swivel fold
Flip over
(Check final model for result)

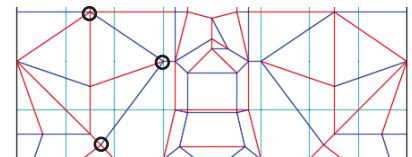
27



Focus on highlighted section :

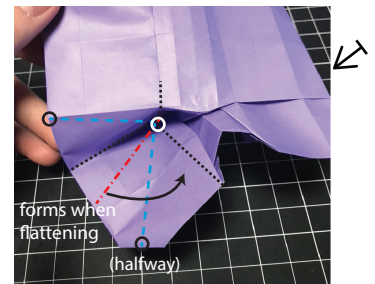
- Pull apart layers and reverse the vertical crease to mountain all the way (see image below)
- Repeat on right side

28

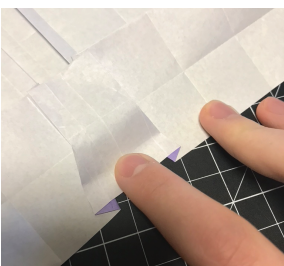


- Reverse fold the pleat created in last step using the circled intersections points as references
- Repeat on other side

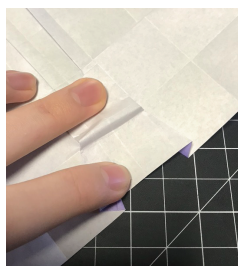
- Focus on the highlighted section(see images below):
- a) fold down the creases from step 18 (will not lie flat)
 - b) carefully push the paper flat from the top and bottom of the section
 - c) pinch and flatten the whole section (accuracy not important)



25a



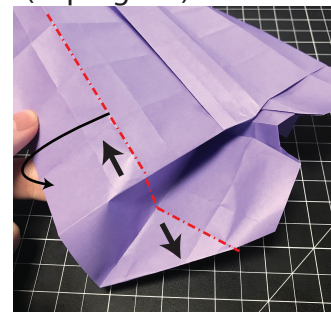
25b



25c



27(in progress)



Fold the edge underneath the model and flatten