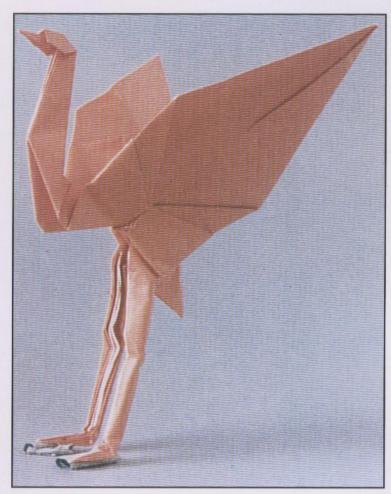


ORIGAMI birds and insects

John Montroll

DOVER PUBLICATIONS, INC. Mineola, New York



Crane, page 20

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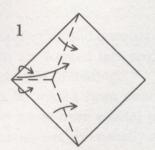
Symbols

Lines				
	Valley fold, fold in front.		-1	Fold in this direction.
	Mountain fold, fold behind. Crease line.		_	Fold behind.
	X-ray or guide line.			Unfold.
		4	7	Fold and unfold.
			A	Turn over.
		T	>	Sink or three dimensional folding.
			7	Place your finger between these layers.

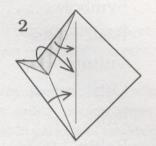
Basic Folds

Rabbit Ear.

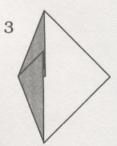
To fold a rabbit ear, one corner is folded in half and laid down to a side.



Fold a rabbit ear.



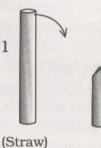
A three-dimensional intermediate step.



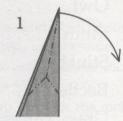
2

Double Rabbit Ear.

If you were to bend a straw you would be folding the double rabbit ear.



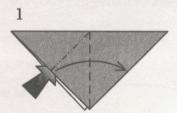
2



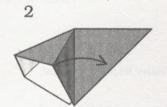
Make a double rabbit ear.

Squash Fold.

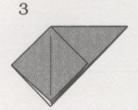
In a squash fold, some paper is opened and then made flat. The shaded arrow shows where to place your finger.



Squash-fold.

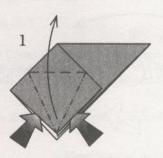


A three-dimensional intermediate step.

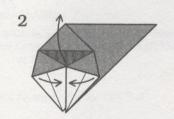


Petal Fold.

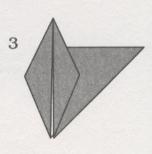
In a petal fold, one point is folded up while two opposite sides meet each other.



Petal-fold.



A three-dimensional intermediate step.



Inside Reverse Fold.

In an inside reverse fold, some paper is folded between layers. Here are two examples.



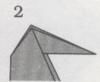


Reverse-fold.





Reverse-fold.



Outside Reverse Fold.

Much of the paper must be unfolded to make an outside reverse fold.

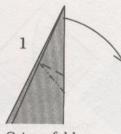


Outside-reverse-fold.

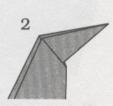


Crimp Fold.

A crimp fold is a combination of two reverse folds.

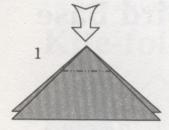


Crimp-fold.



Sink Fold.

In a sink fold, some of the paper without edges is folded inside. To do this fold, much of the model must be unfolded.

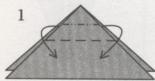


Sink.



Spread Squash Fold.

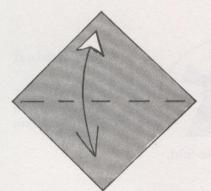
A cross between a squash fold and sink fold, some paper in the center is spread apart and then made flat.



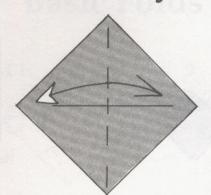
Spread-squash-fold.



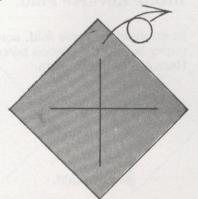
Preliminary-fold



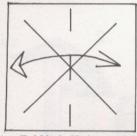
Fold diagonally in half, then unfold.



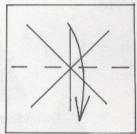
2. Repeat.



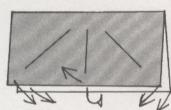
3. Turn over model, then turn clockwise.



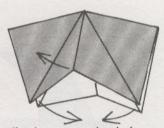
4. Fold in half, then unfold.



Fold in half.



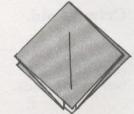
6a. Fold along creases.



6b. Appearance just before completion.

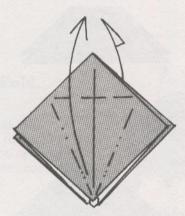


Synopsis of steps 1-6b.

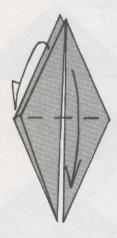


7. PRELIMINARY-**FOLD**

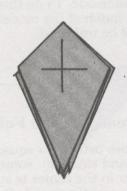
Bird Base



1. Begin with preliminary-fold, then petal-fold both sides.

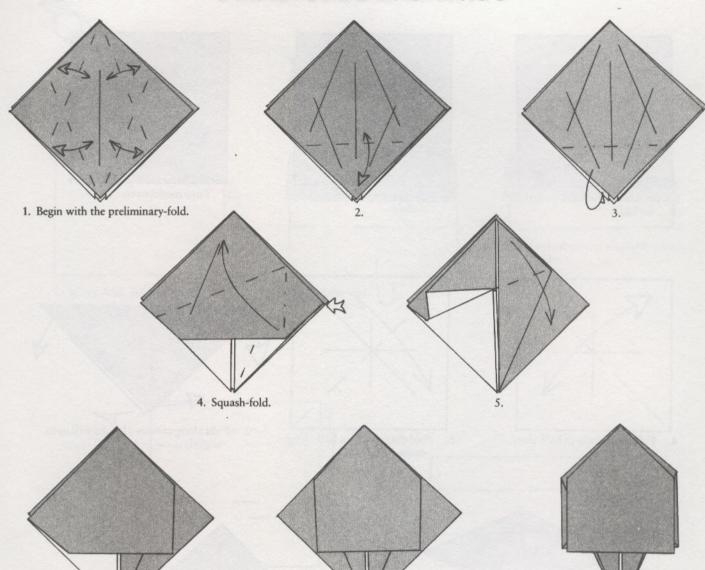


2. Fold tops of both sides down.



3. BIRD BASE

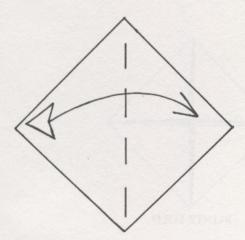
Brontosaurus Base



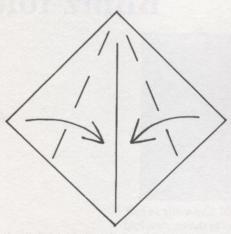
6. Repeat steps 4 & 5 on the left side.

Kite-fold

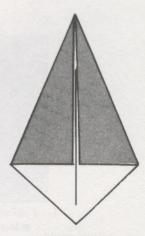
7. Repeat steps 1-6 behind.



1. Fold diagonally in half, then unfold.



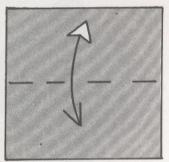
2. Valley-fold along lines to center crease.



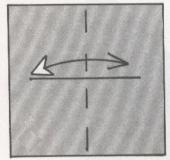
8. BRONTOSAURUS BASE

3. KITE-FOLD

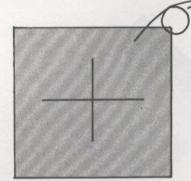
Water Bomb Base



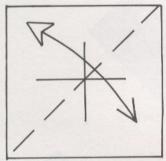
 Fold horizontally in half, then unfold.



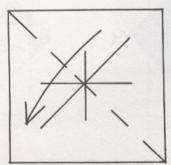
2. Fold vertically in half, then unfold.



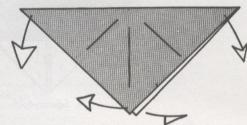
3. Turn model over.



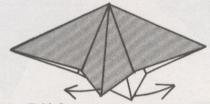
Fold diagonally in half, then unfold.



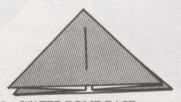
Fold diagonally in half along dashed line.



6. Fold along creases (Model will open slightly.)

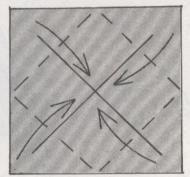


7. Fold along creases.

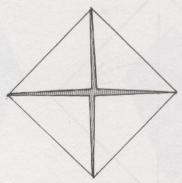


8. WATER BOMB BASE

Blintz-fold

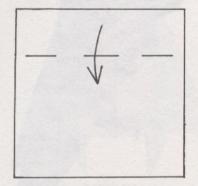


 Fold and unfold diagonally in half to form creases as shown, then fold four corners to center.

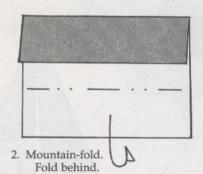


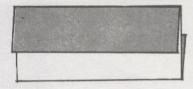
2. BLINTZ-FOLD

Pleat-fold

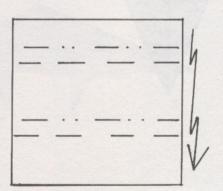


1. Valley-fold. Fold forward.

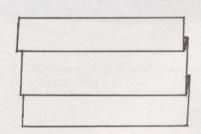




3. Finished model displaying both folds.

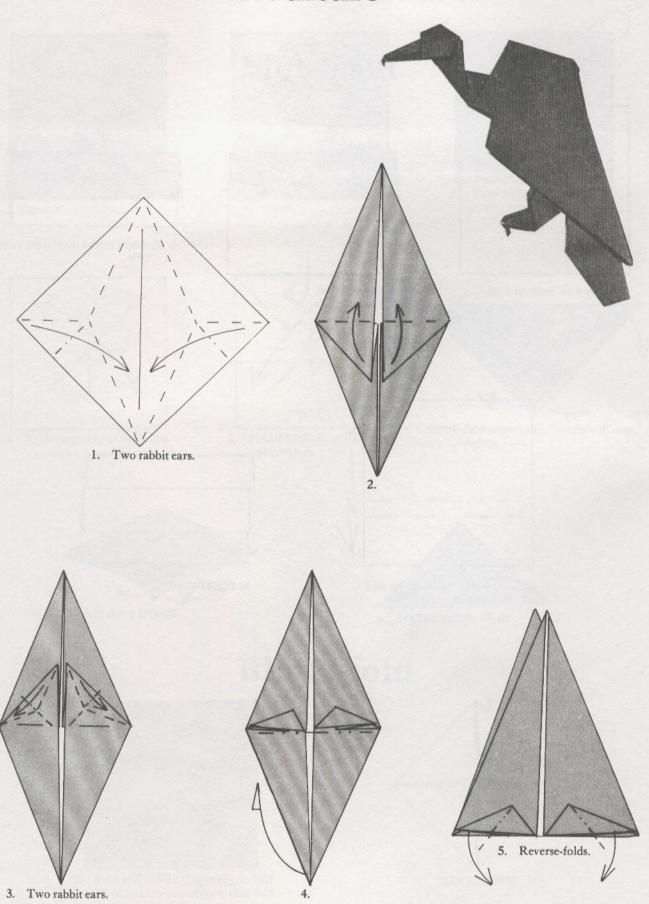


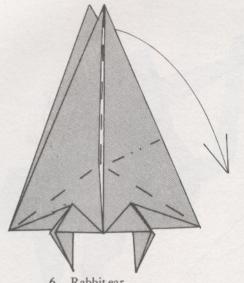
4. Combination of mountain-and valley-folds.

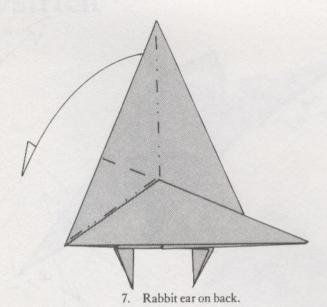


5. PLEAT-FOLD

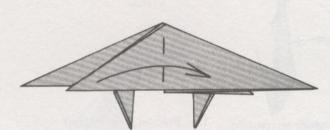
Vulture

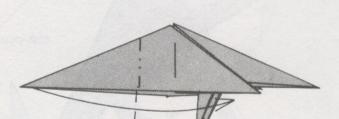




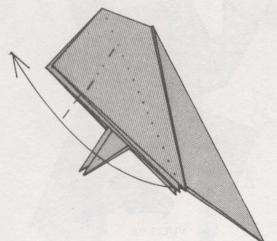




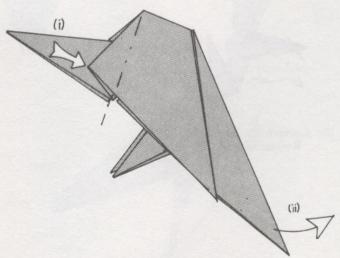




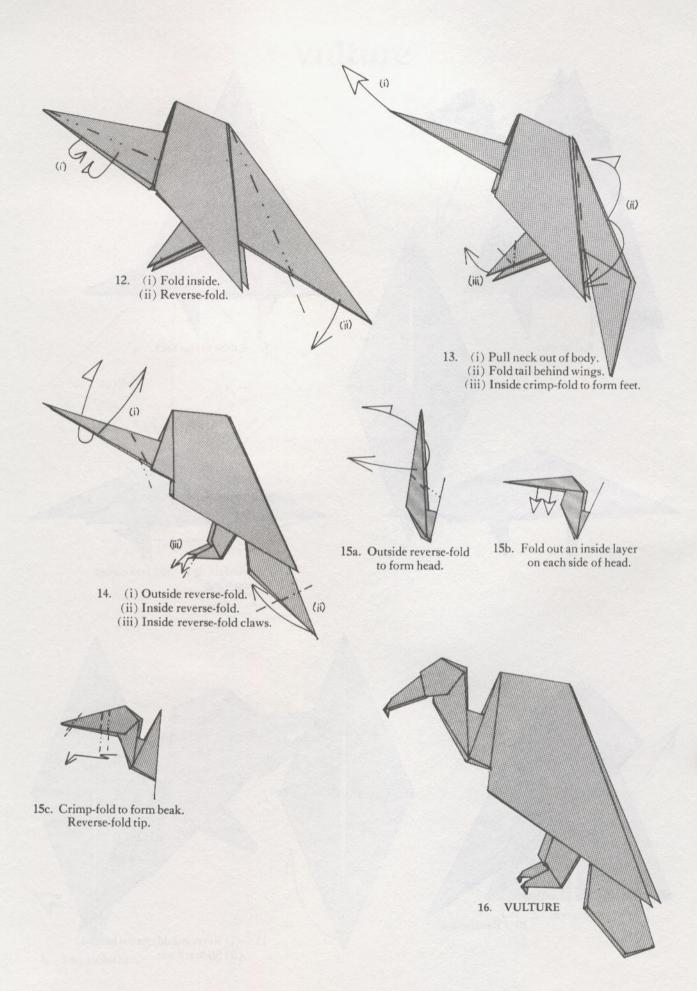
9. Reverse-fold tip of head into corner of top wing.



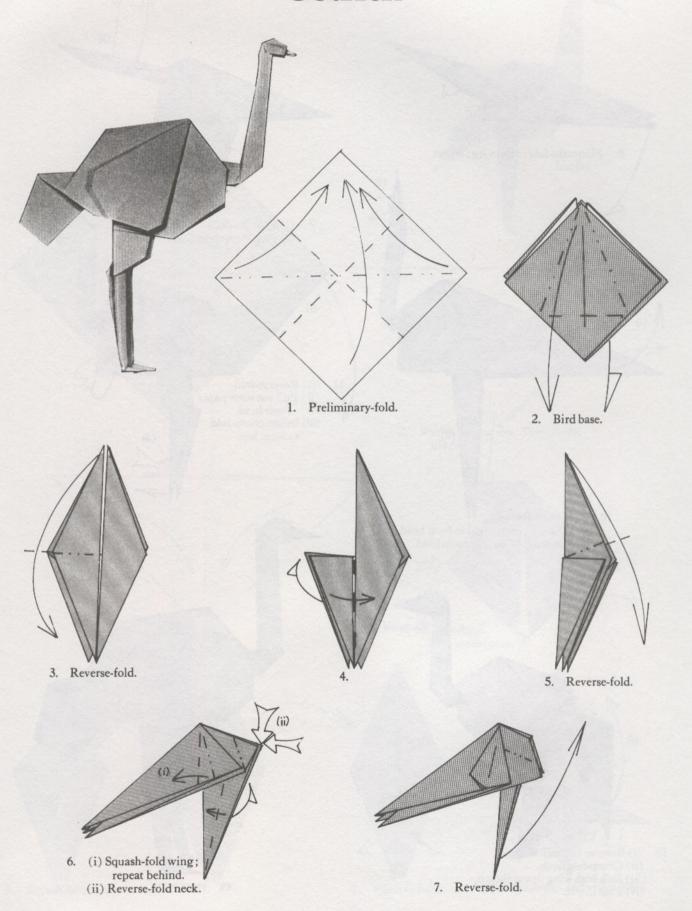
10. Reverse-fold.

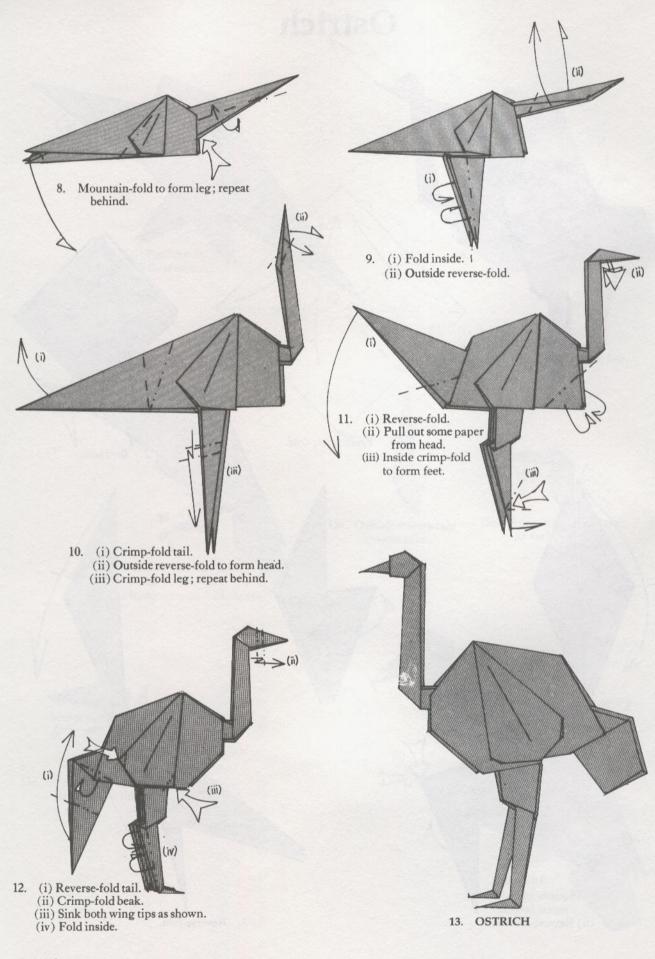


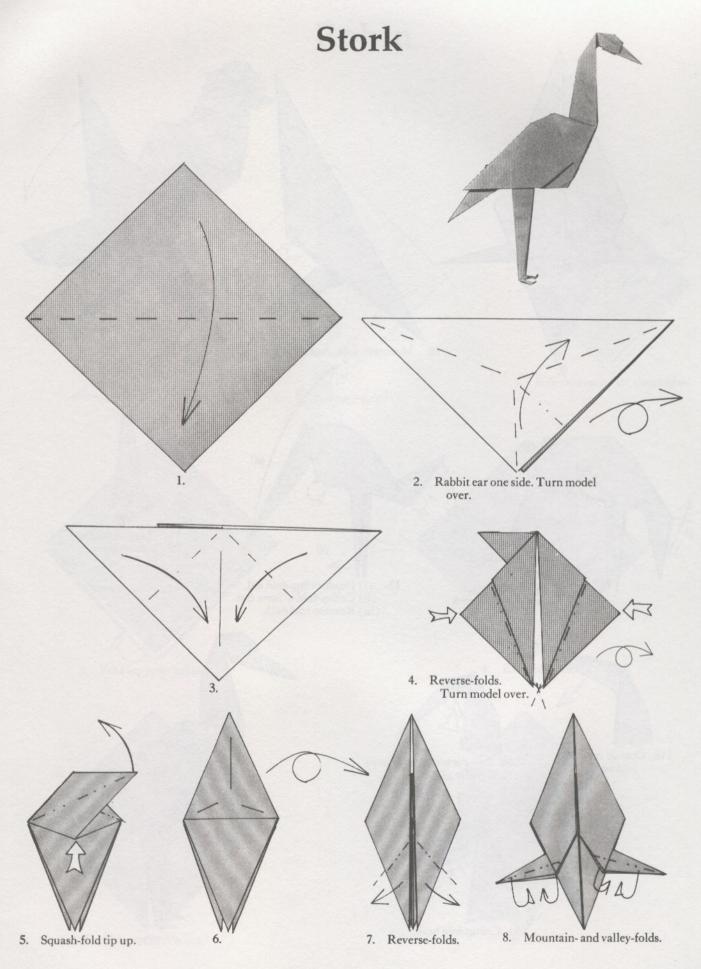
11. (i) Reverse-fold; repeat behind. (ii) Slide tail out.

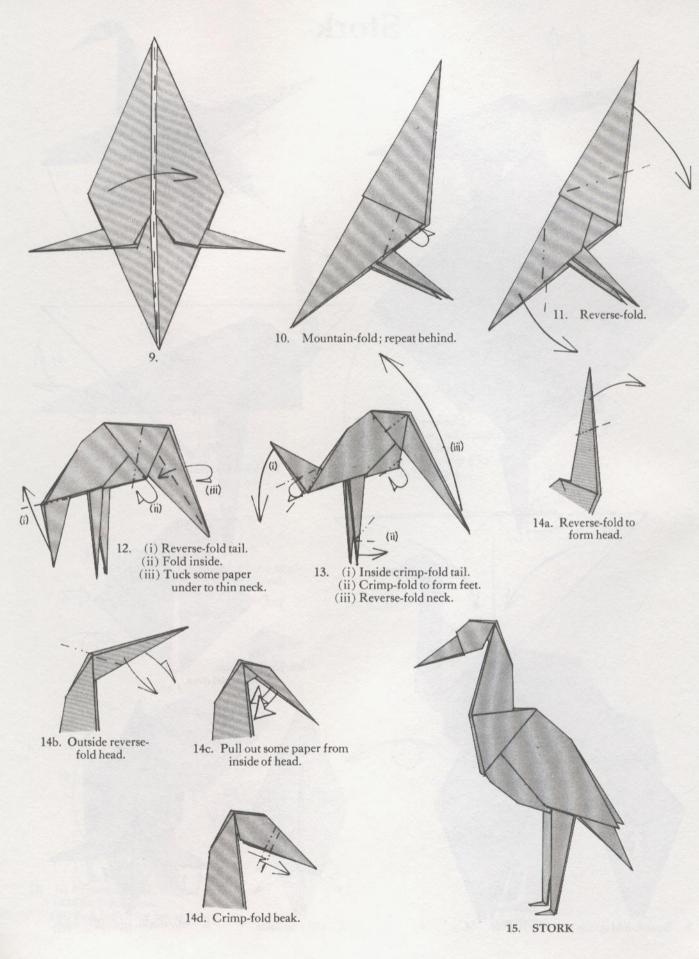


Ostrich

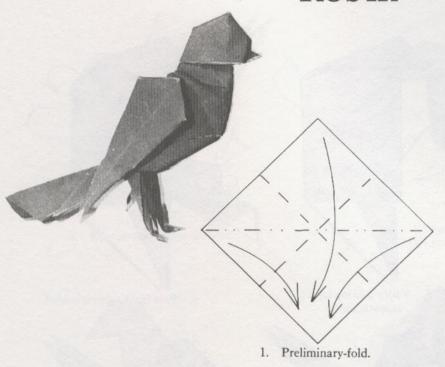


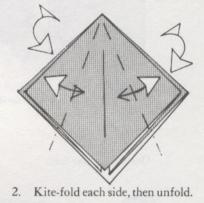


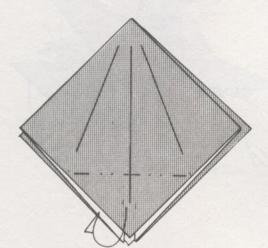




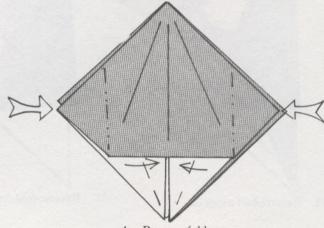
Robin



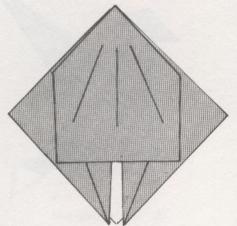




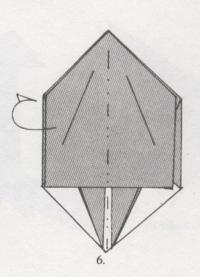
3. Fold top layer behind.

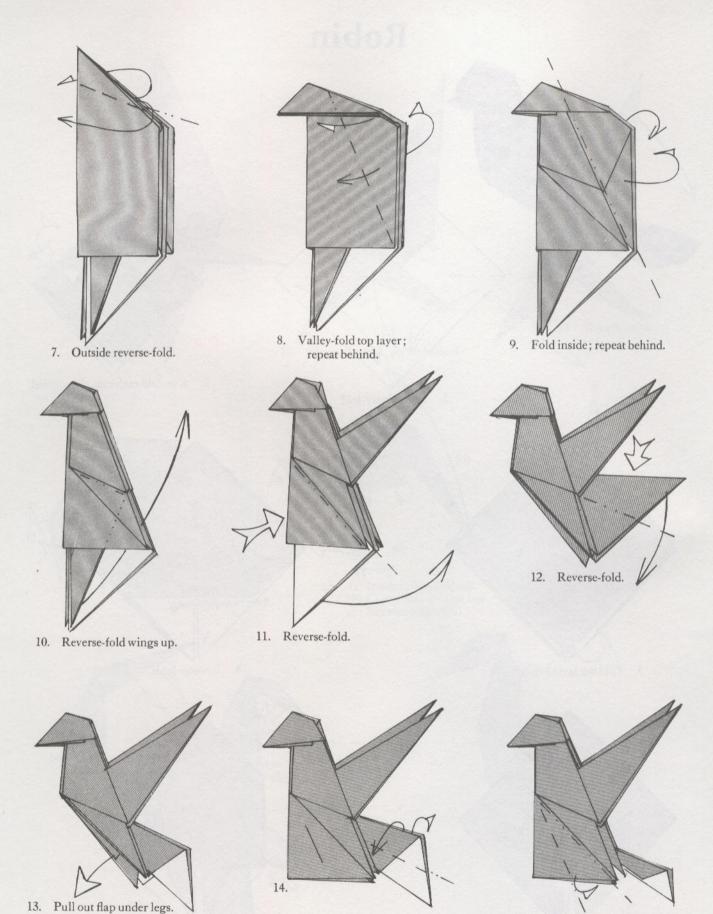


4. Reverse-folds.

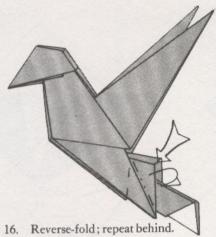


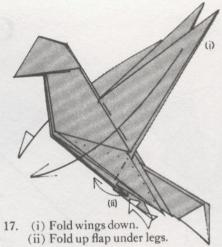
5. Repeat step 4 behind.

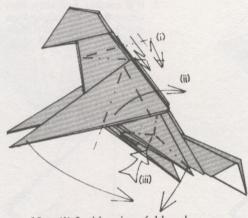




15. Inside crimp-fold.



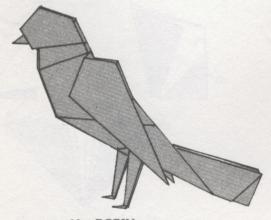




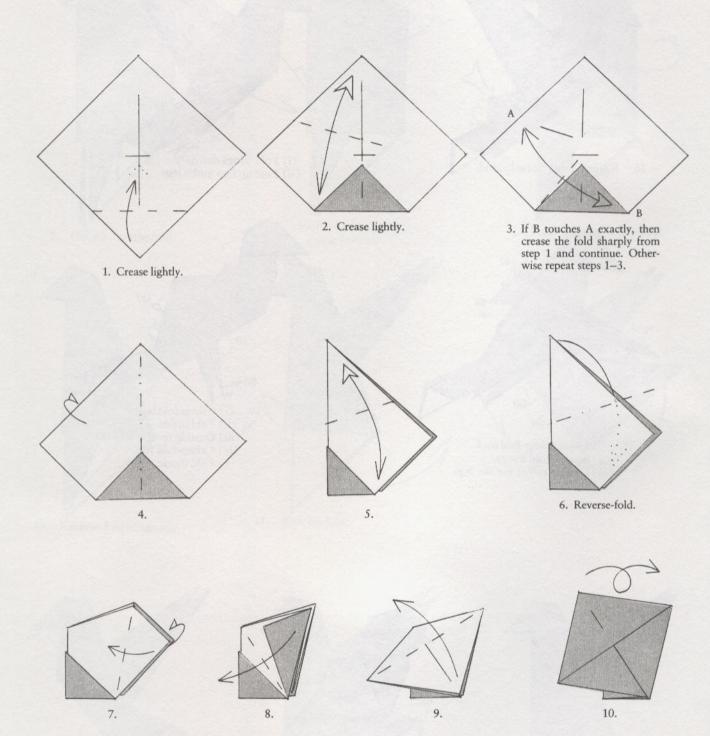
18. (i) Inside crimp-fold neck. (ii) Squash-fold wings. (iii) Double rabbit ear the legs. (i)

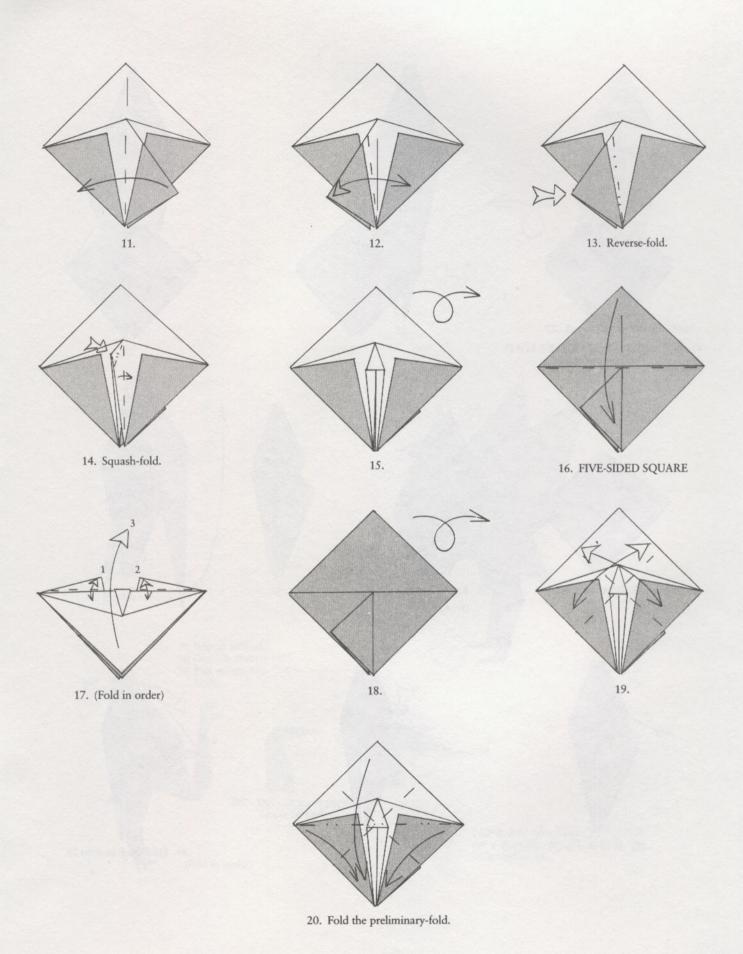
19. (i) Crimp-fold beak.
(ii) Fold inside.
(iii) Outside reverse-fold tail.
(iv) Crimp-fold feet.

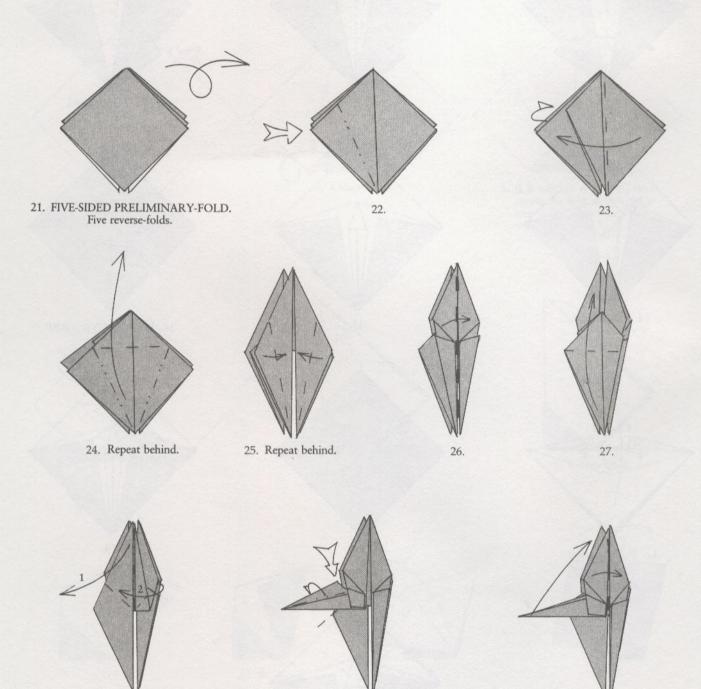
(v) Fold inside.



Crane



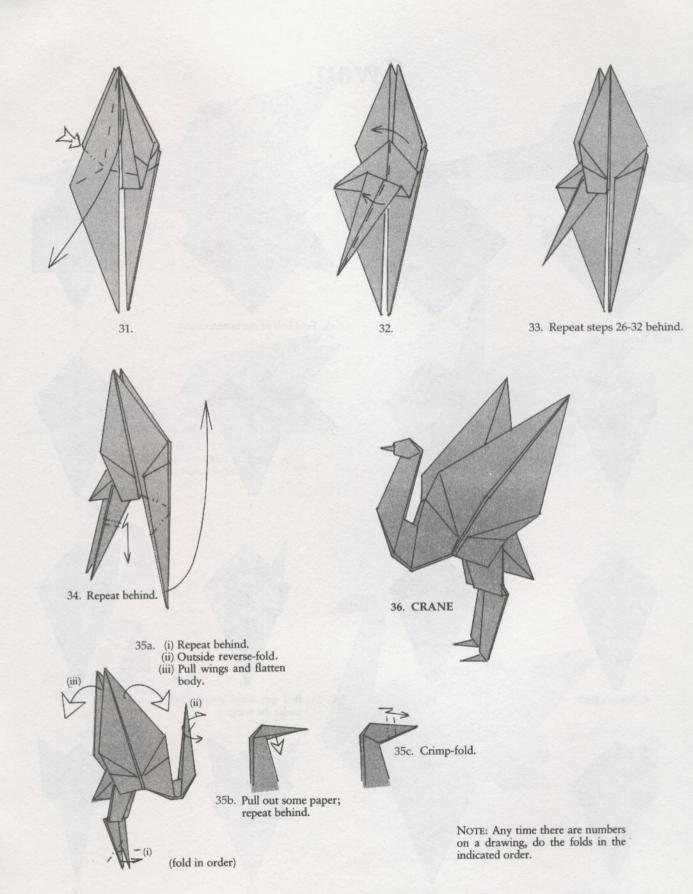




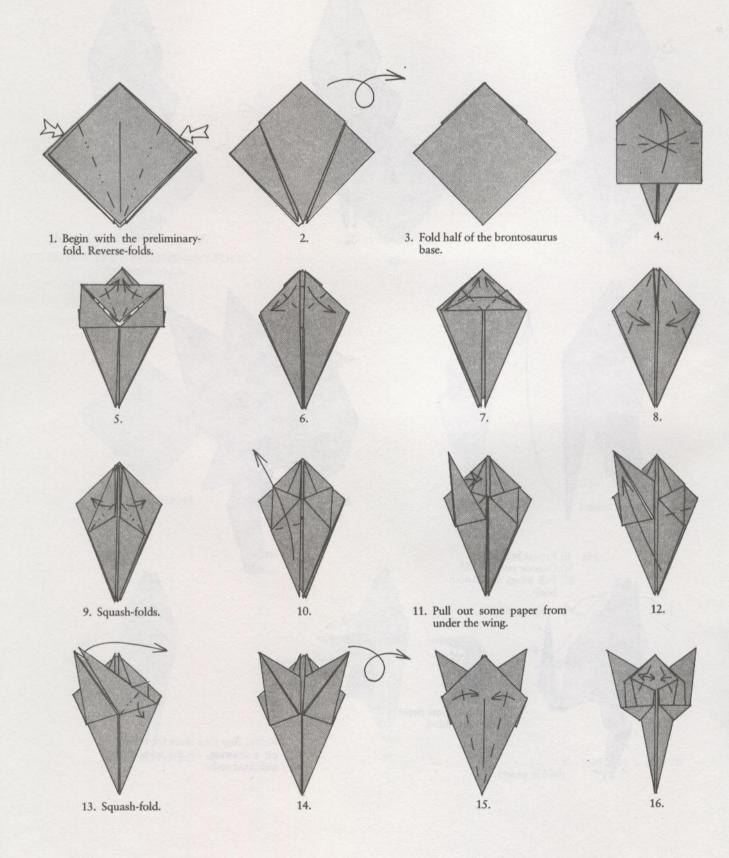
29.

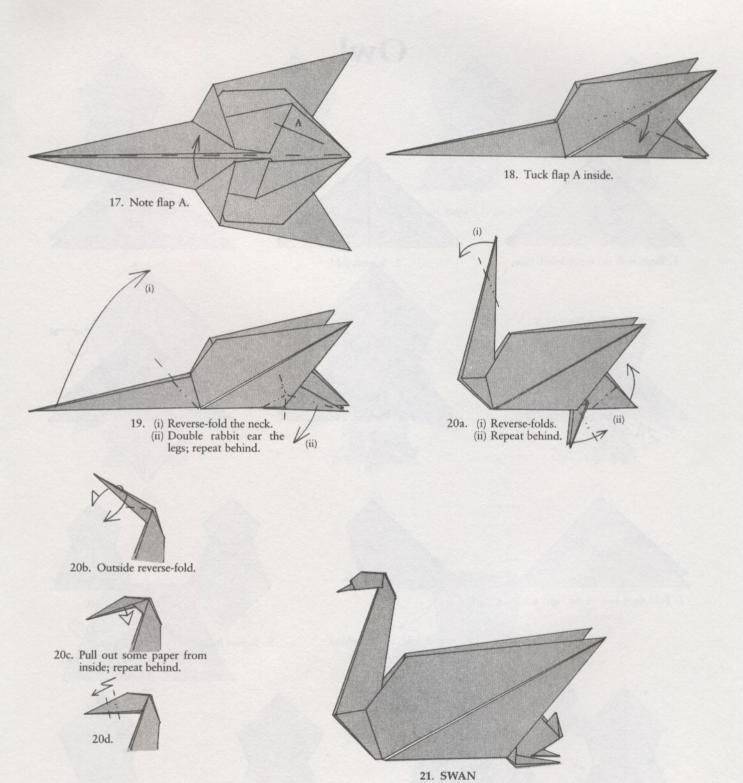
30. Fold back to step 28.

28. (Fold in order)

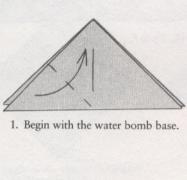


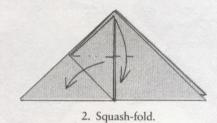
Swan

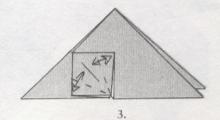


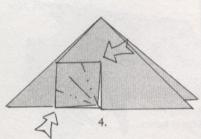


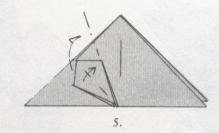
Owl

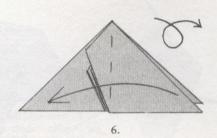




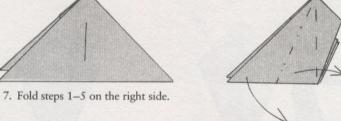


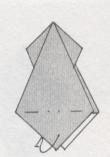


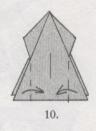






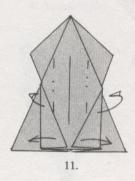


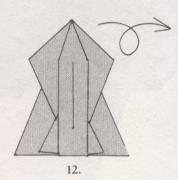


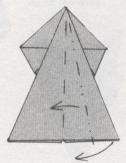


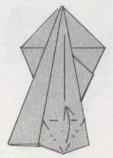
8. Squash fold; repeat behind.

9. Repeat behind.



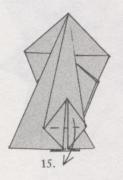


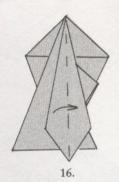


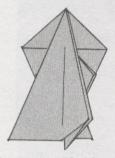


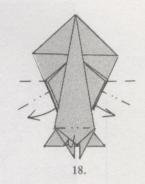
13. Squash-fold.

14. Petal-fold.

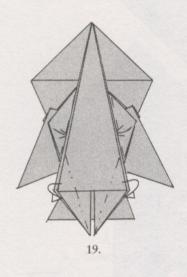


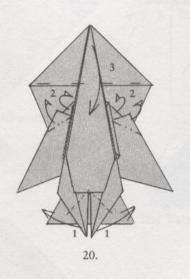


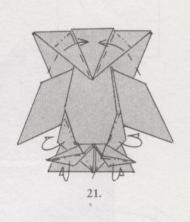


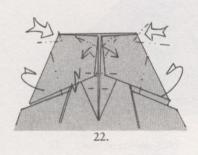


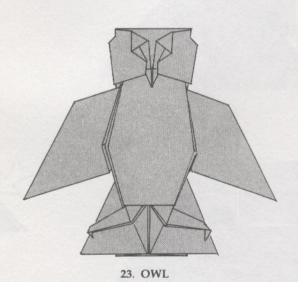
17. Repeat steps 13–16 on the left side.



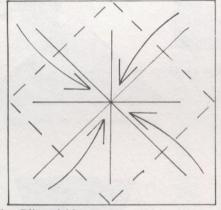




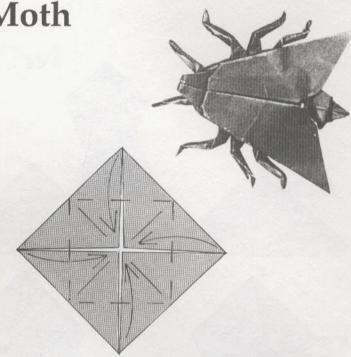




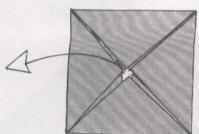
Moth



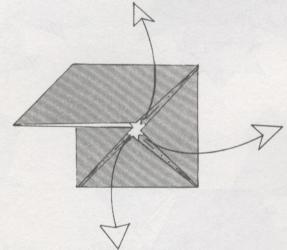
1. Blintz-fold.



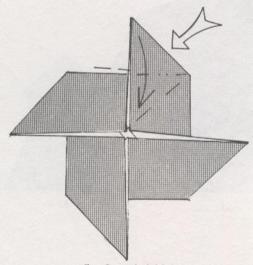
2. Blintz-fold again.



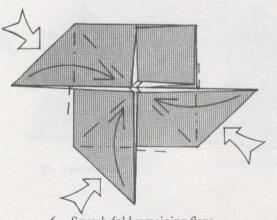
3. Pull out one corner.



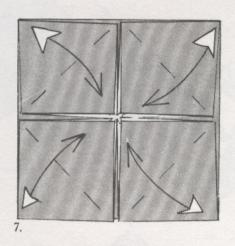
4. Pull out remaining corners.

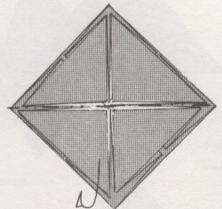


5. Squash-fold.

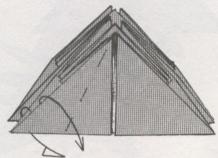


6. Squash-fold remaining flaps.

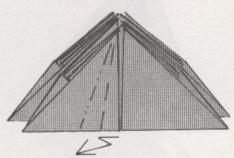




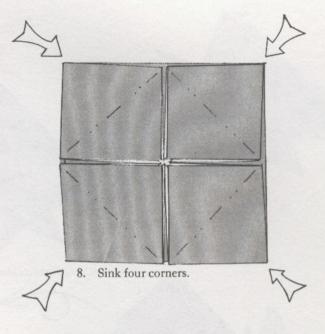
9. Mountain-fold model in half.

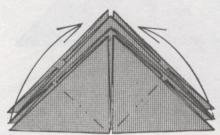


11. Outside reverse-fold.

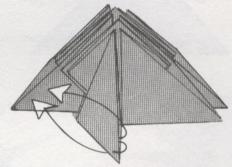


13. Outside crimp-fold.

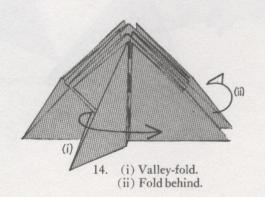


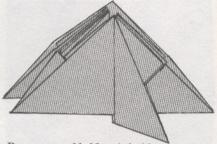


10. Reverse-fold middle flaps.

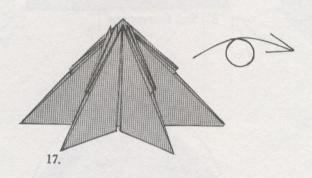


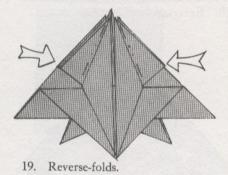
12. Unfold reverse-fold.

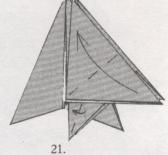


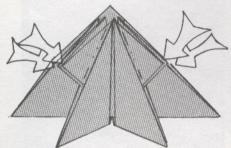


15. Repeat steps 11-13 on left side.

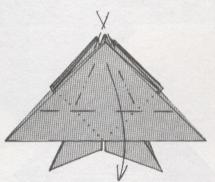




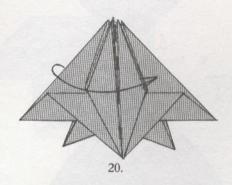




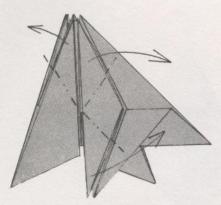
16. Reverse-folds.



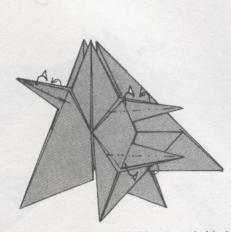
18. Petal-fold inside, while folding outer flap down.



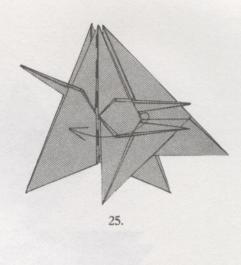
22. Petal-fold.



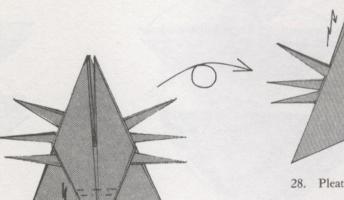
23. Reverse-fold 3 legs as shown.



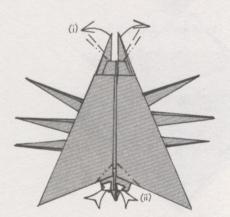
24. Mountain-fold inside; repeat behind.



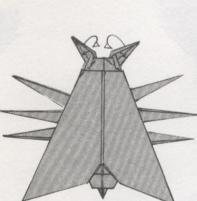
26. Repeat steps 20-25 on right side.



28. Pleat-fold to form head.

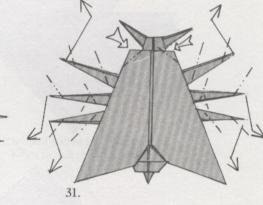


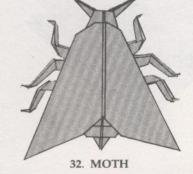
29. (i) Reverse-folds. (ii) Sink.



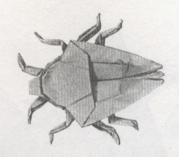
27. Pleat-fold tail. Turn model over.

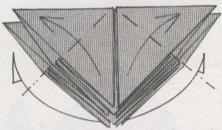
30. Reverse-folds; repeat behind.



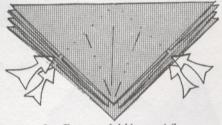


Stink Bug

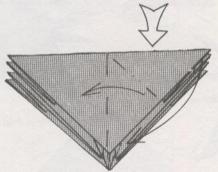




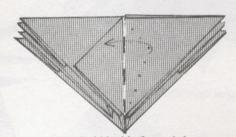
Begin with step 11 of Moth turned clockwise. Valley-fold; repeat behind.



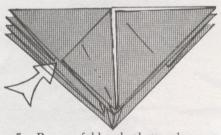
2. Reverse-fold lower 4 flaps.



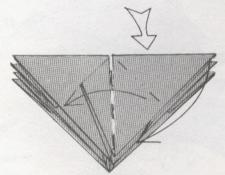
3. Squash-fold.



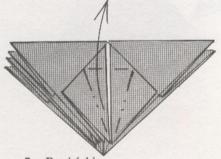
4. Fold inside flap to left.



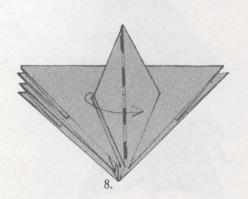
5. Reverse-fold so that bottom layer covers inside flap in step 4.

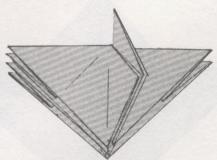


6. Squash-fold.

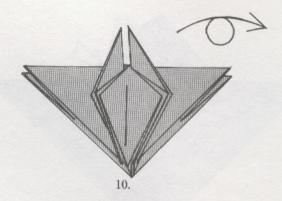


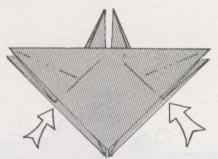
7. Petal-fold.



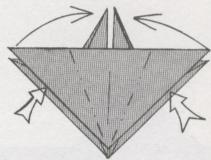


9. Repeat steps 3–8 on left side.

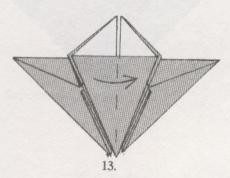


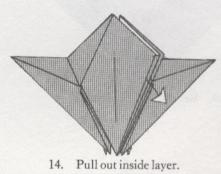


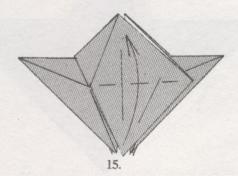
11. Reverse-folds.

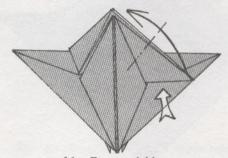


12. Reverse-folds.

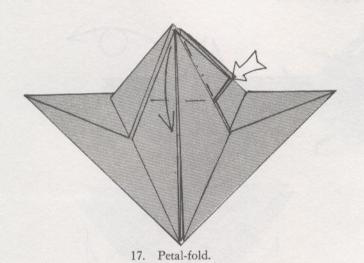


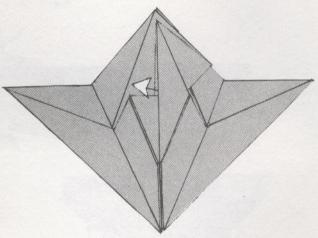




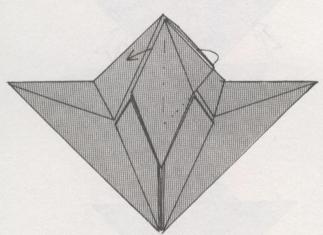


16. Reverse-fold.

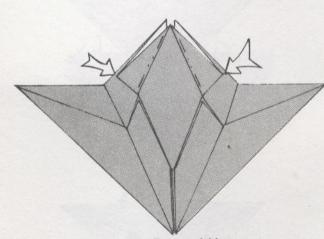




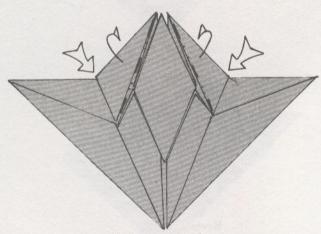
18. Pull out inside layers.



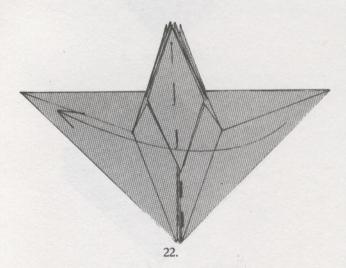
19. Reverse-fold inside layer.

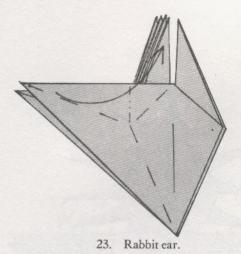


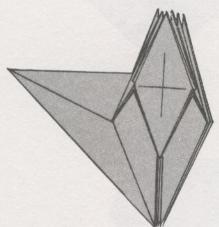
20. Reverse-folds.



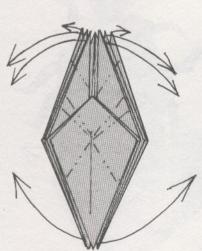
21. Reverse-folds.



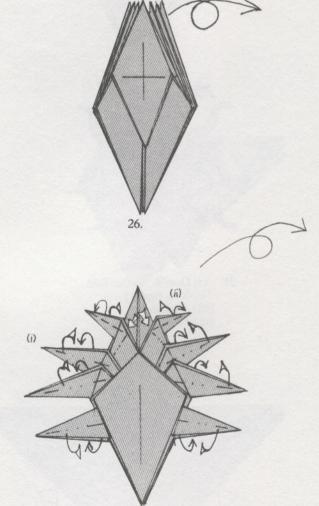




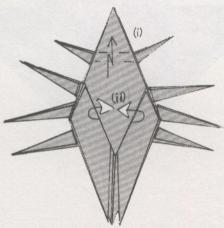
25. Repeat steps 22-24 on left side.



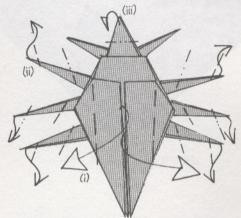
27. Reverse-fold to form legs and antennae.



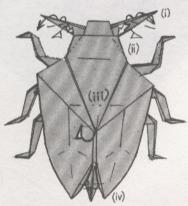
28. (i) Mountain fold inside; repeat behind. (ii) Reverse-fold antennae.



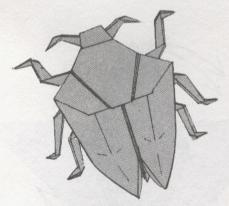
29. (i) Pleat-fold.
(ii) Pull wings out and fold on top.



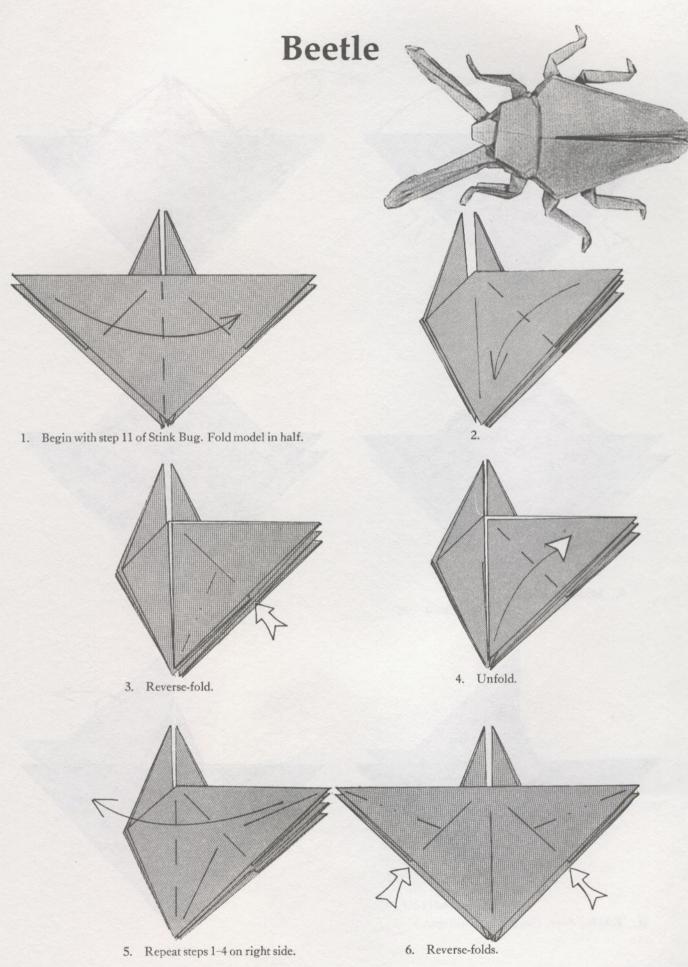
30. (i) Fold wings out.
(ii) Reverse-fold each leg twice.
(iii) Mountain-fold.

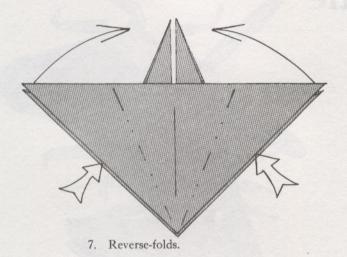


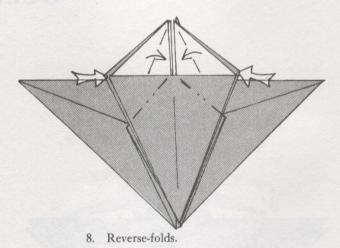
31. (i) Outside reverse-fold. (ii) Reverse-fold. (iii) Tuck under. (iv) Pleat-fold tail.

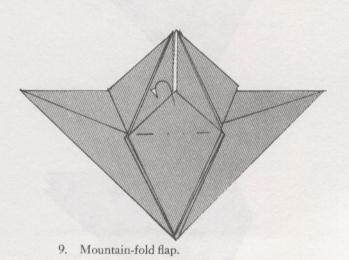


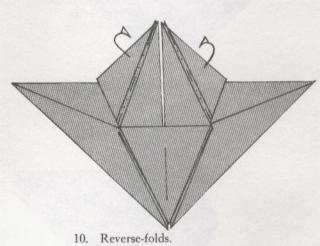
32. STINK BUG

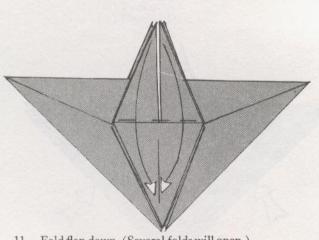


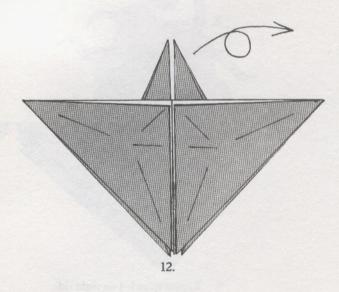


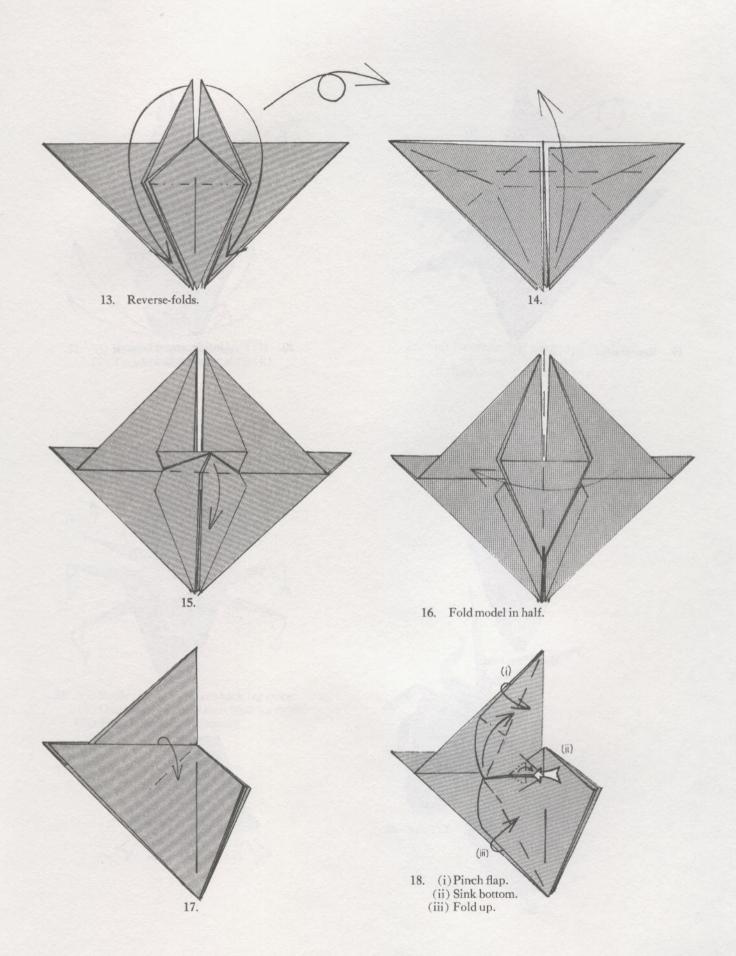


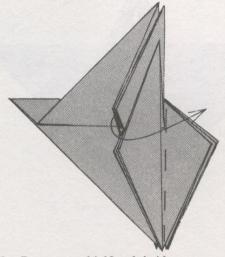




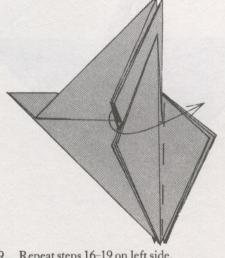




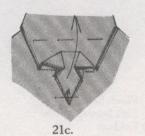




19. Repeat steps 16-19 on left side.

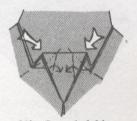


21a. Pleat-fold.

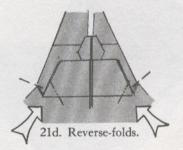


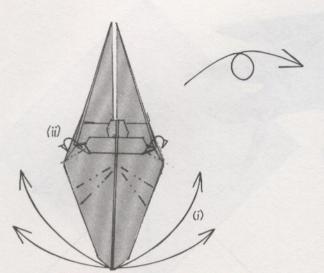


20. (i) Fold inside; repeat behind. (ii) Slide out part of wing.

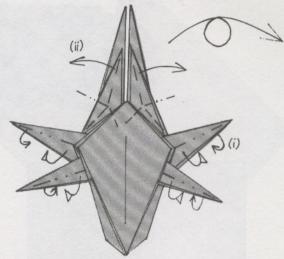


21b. Squash-folds.

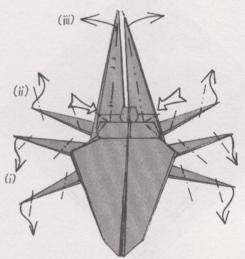




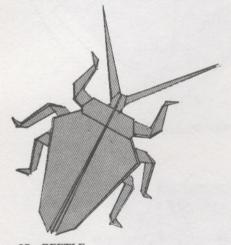
22. (i) Reverse-fold to form legs.
(ii) Tuck inside. Turn model over.



23. (i) Mountain-fold inside; repeat behind on remaining back legs.(ii) Rabbit ear. Turn model over.

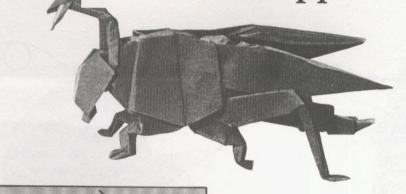


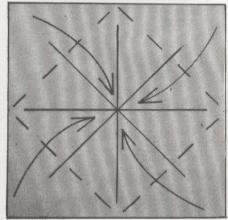
24. (i) Inside reverse-fold each back leg twice. (ii) Outside reverse-fold each front leg twice. (iii) Double rabbit ear antennae.



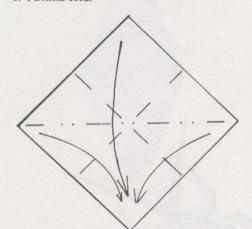
25. BEETLE

Grasshopper

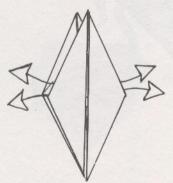




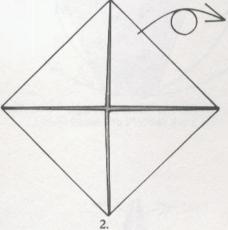
1. . Blintz-fold.

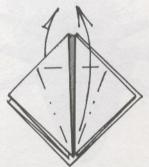


3. Preliminary-fold.

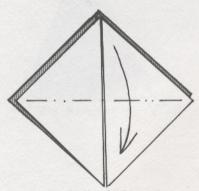


5. Pull out inner layers.

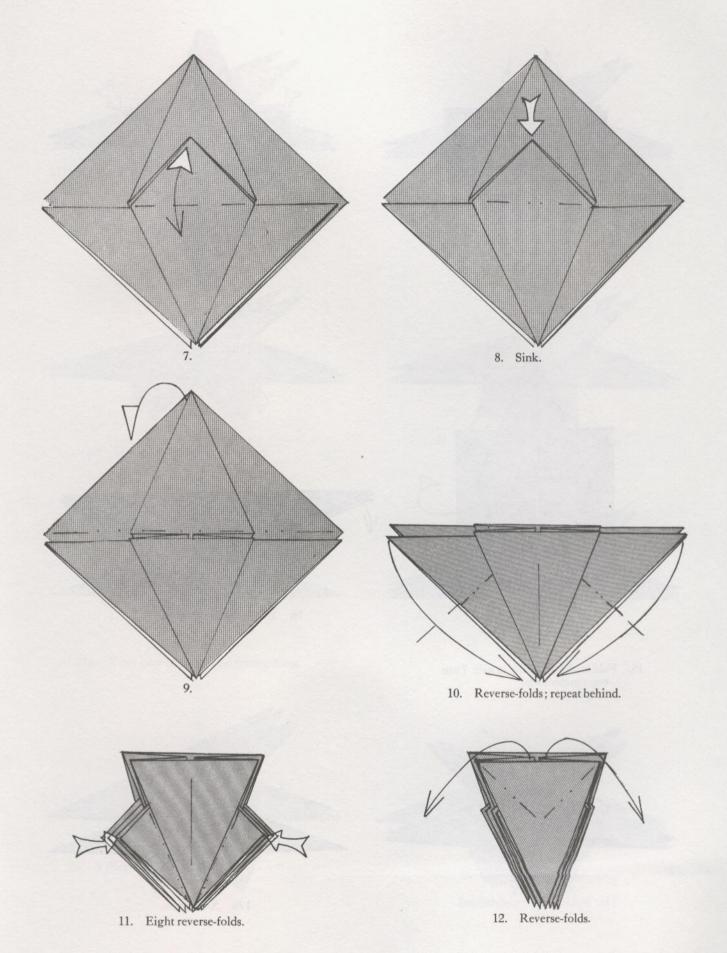


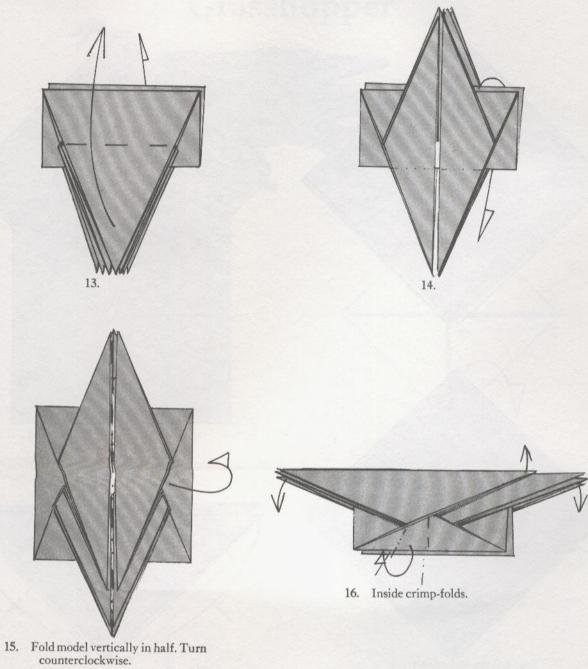


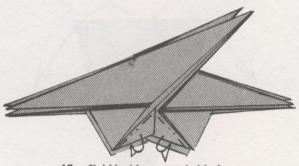
4. Petal-fold front and back.



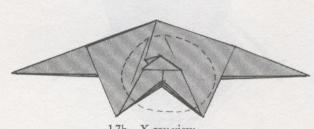
6. Valley-fold front layer.



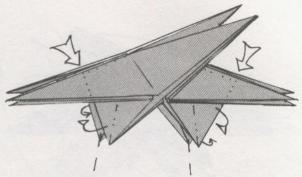




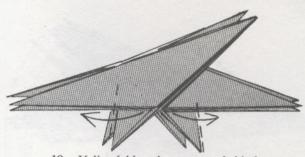
17a. Fold inside; repeat behind.



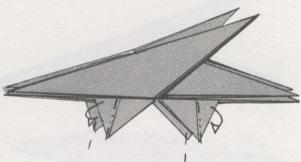
17b. X-ray view.



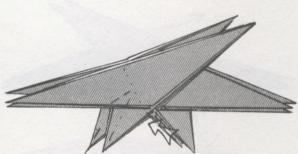
18. Reverse-folds; repeat behind.



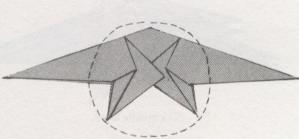
19. Valley-fold top layer; repeat behind.



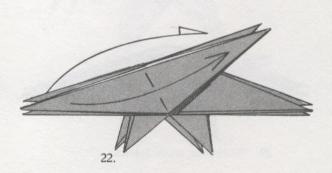
20. Mountain-fold; repeat behind.



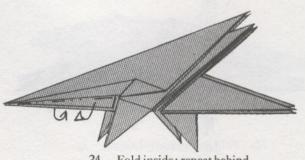
21. Reverse-fold lowest layer of top flaps; repeat behind.



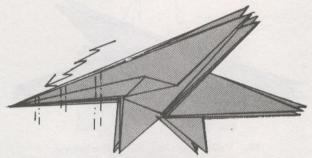
21a. X-ray view of completed reverse-folds.



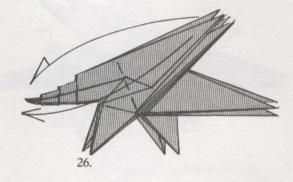
23. Valley-fold one third as shown.

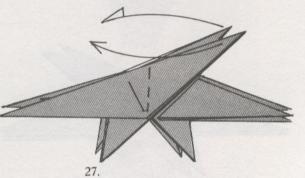


24. Fold inside; repeat behind.

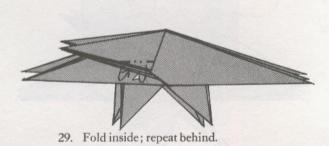


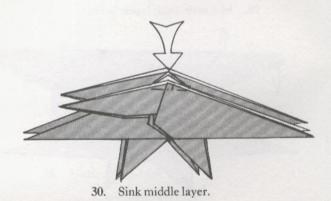
25. Crimp-fold tail.

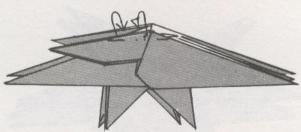


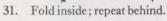


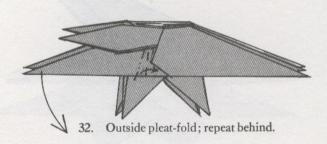
28. Inside crimp-fold; repeat behind.

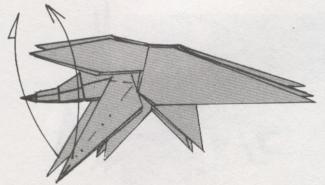




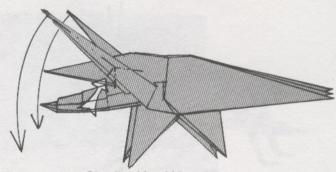




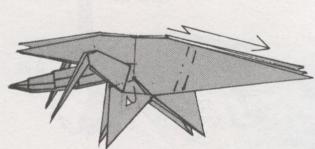




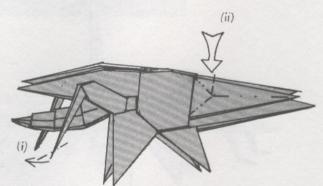
33. Petal-fold; repeat behind.



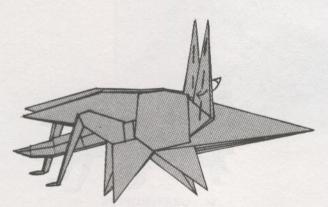
34. Double rabbit ear legs.



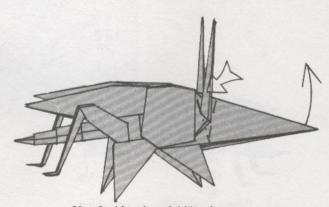
35. Pleat-fold; repeat behind.



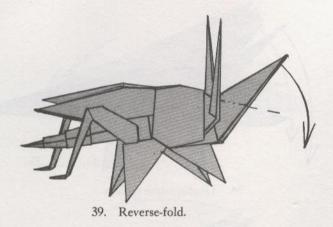
(i) Reverse-fold; repeat behind.(ii) Double rabbit ear; repeat behind.

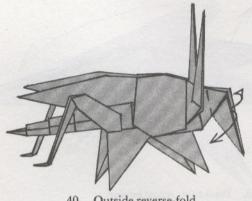


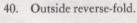
37. Valley-folds; repeat behind.

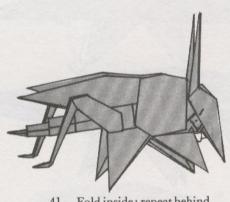


38. Inside crimp-fold head.

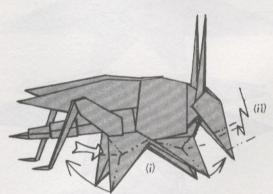




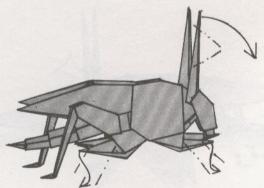




41. Fold inside; repeat behind.



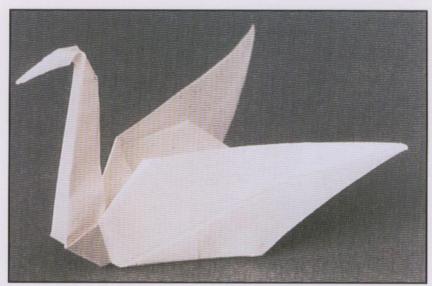
42. (i) Double rabbit ear legs; repeat behind. (ii) Crimp-fold mouth.



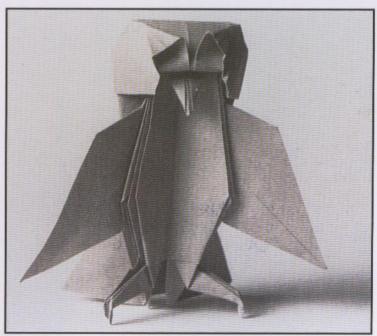
43. Reverse-folds twice; repeat behind.



44. GRASSHOPPER



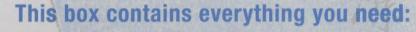
Swan, page 24



Owl, page 26



elephant, owl, whale, kangaroo, sea horse, giraffe, grasshopper, ostrich, bear, walrus, and many more!



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