

ANIMAL ORIGAMI FOR THE ENTHUSIAST

Step-by-step Instructions in Over 900 Diagrams



Frog with toes, page 47



Tyrannosaurus, page 31



Fox, page 64



Antelope, page 70

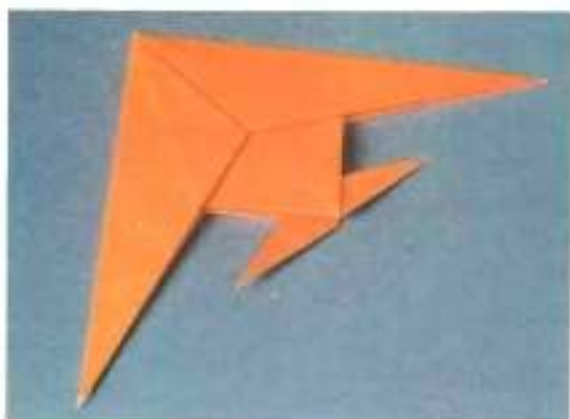
25 Original Models by
John Montroll



Elephant, page 70



Eagle, page 28



Angelfish, page 16



Spider, page 82



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ANIMAL ORIGAMI

for the Enthusiast



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Step-by-Step Instructions in Over 900 Diagrams

25 Original Models by **John Montroll**

Dover Publications, Inc.
New York

*Dedicated to My Parents,
Shirley and Elliott*

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Published in Canada by General Publishing Company, Ltd., 30 Lexmill Road, Don
Mills, Toronto, Ontario.
Published in the United Kingdom by Constable and Company, Ltd.

*Animal Origami for the Enthusiast: Step-by-Step Instructions in Over 900
Diagrams* is a new work, first published by Dover Publications, Inc., in 1985.
Manufactured in the United States of America
Dover Publications, Inc., 31 East 2nd Street, Mineola, N.Y. 11501

Library of Congress Cataloging in Publication Data

Montroll, John.

Animal origami for the enthusiast.

1. Origami. I. Title.
TT870.M55 1985 736'.982 84-48754
ISBN 0-486-24792-9

INTRODUCTION

The warm reception that greeted *Origami for the Enthusiast* (Dover 23799-0) enables me to present a second collection of original origami projects. I hope that readers take as much delight in folding these designs as I took in concocting them.

Each project in this book is formed by folding a single square sheet of paper. I have adhered to the convention of my first book (and of all my work) in that no sheet is ever cut and no paste or tape is used.

Veteran folders who have not seen my earlier work may find some surprises here. Origami animals often are made without a lot of attention to detail. In particular, the four corners of a square lead quite naturally to three-legged animals. Three of the four corners become legs, and the fourth turns into a head. Since I started folding as a child, I have felt this sort of approximation of shapes to be esthetically unacceptable and technically unnecessary. Much of my research time has gone into developing new folding bases and techniques to make animals that really look like their models. Some of these methods appeared in my first book. Others, in particular the wing-fold, brontosaurus base and five-sided square, appear in print for the first time here. Over the last few years, I have seen many of my techniques enter the mainstream of origami and am proud to contribute to this ancient, elegant art.

Although any square paper can be used for the projects in this book, the best thing to use is standard origami paper. This is sold in many hobby shops, or it can be purchased by mail from the Friends of The Origami Center of America, 15 West 77th Street, New York, N.Y. 10024-5192. Larger sheets of paper are easier to work with than small ones. Origami paper is colored on one side and white on the other. In the diagrams in this book, the shading represents the colored side.

This book uses the international Randlett-Yoshizawa method of notation. Be sure, when folding, to examine not only the step you are on but also the next one, to see the result.

I would like to give special thanks to Eun-Sook Yang for her help with the illustrations.

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SYMBOLS



Valley-fold.



Mountain-fold.



Creased-fold. Fold and unfold beforehand;
or existing fold.



X-ray view or guidelines.



Fold in direction of arrow.



Fold behind.



Unfold.



Fold and unfold.



Push in, sink, squash or reverse-fold.



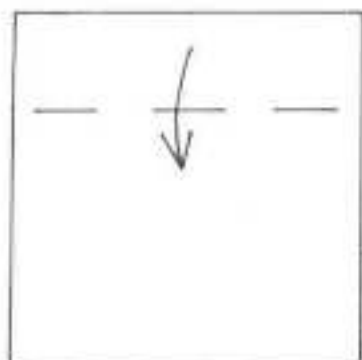
Turn model over.



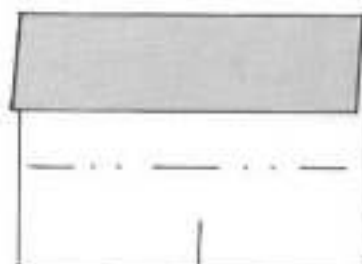
Pleat-fold, combination of mountain-
and valley-folds.

BASIC FOLDS AND BASES

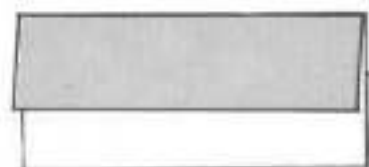
Pleat-fold



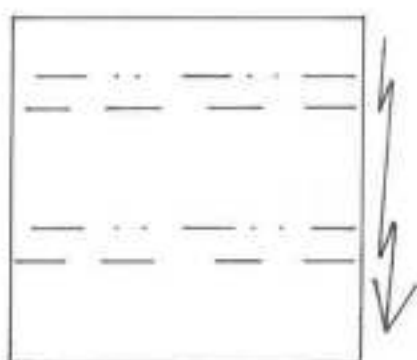
Valley-fold. Fold forward.



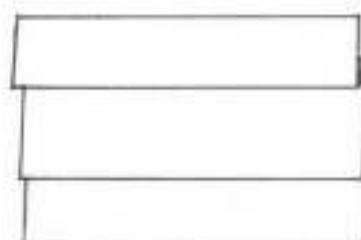
Mountain-fold.
Fold behind.



Finished model displaying both folds.

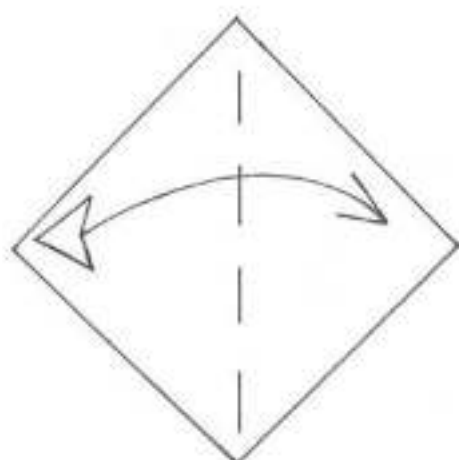


Combination of mountain- and valley-folds.

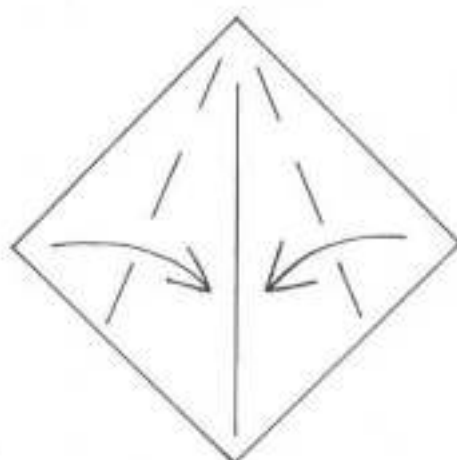


PLEAT-FOLD

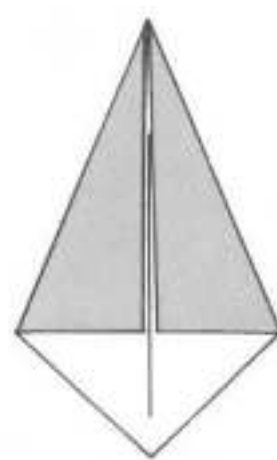
Kite-fold



Fold diagonally in half, then unfold.

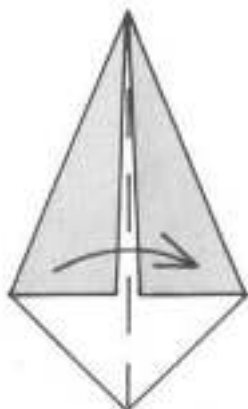


Valley-fold along lines to center crease.

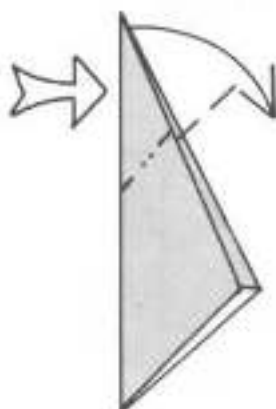


KITE-FOLD

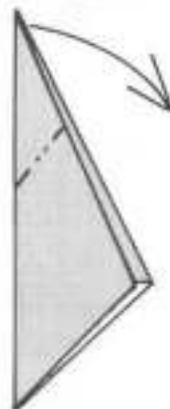
Reverse- and Crimp-folds



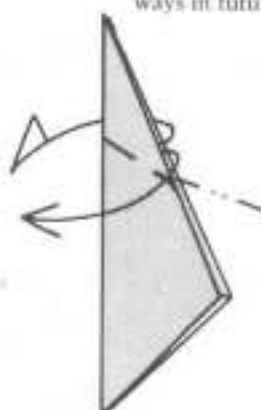
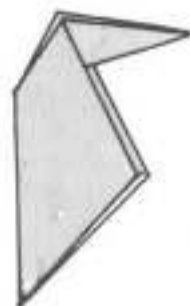
1. To fold all reverse- and crimp-folds begin with kite-fold and fold in half.



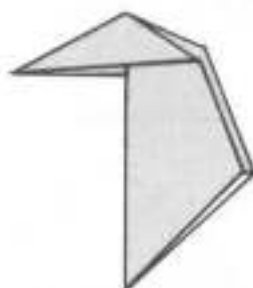
2. Fold tip between outer layers. (This fold will appear both ways in future diagrams.)



3. INSIDE REVERSE-FOLD



2. Open model slightly, then fold tip around outer layers.



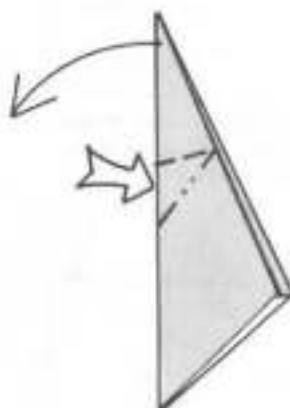
3. OUTSIDE REVERSE-FOLD



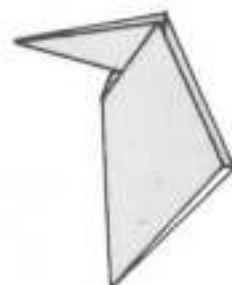
2. Fold behind two reverse-folds, simultaneously.



3. INSIDE CRIMP-FOLD I



2. Fold one reverse-fold to right, then one to left.



3. INSIDE CRIMP-FOLD II

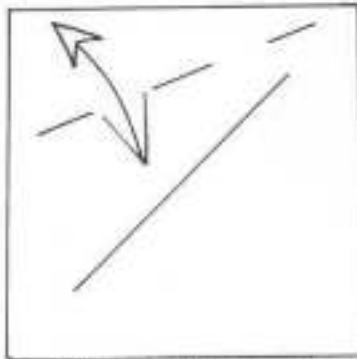


2. Fold one reverse-fold in front and one behind.

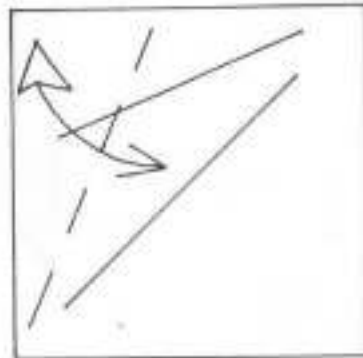


3. OUTSIDE CRIMP-FOLD

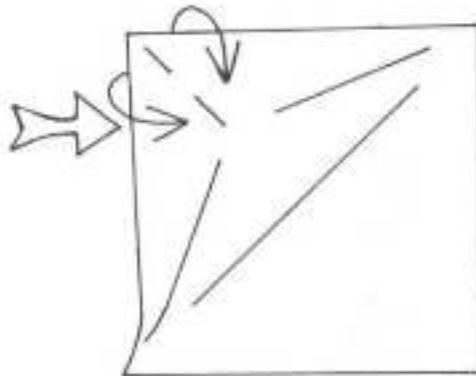
Rabbit Ear



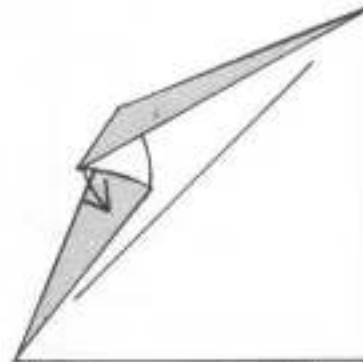
1. Fold and unfold diagonally in half. Fold one side to the center as in a kite-fold and unfold.



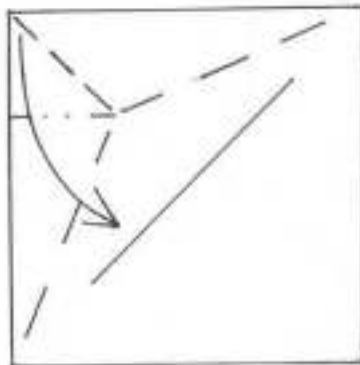
2. Fold and unfold opposite side to the center.



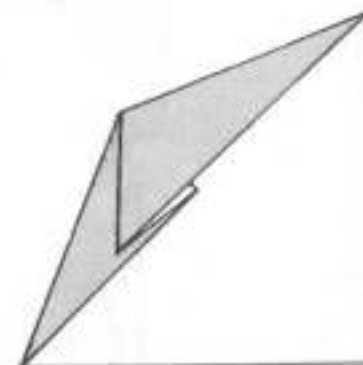
3a. Pinch together sides at the corner and fold down along creases as shown.



3b. Appearance just before completion.

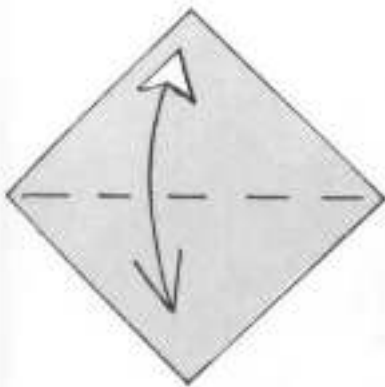


Synopsis of steps 1–3b.

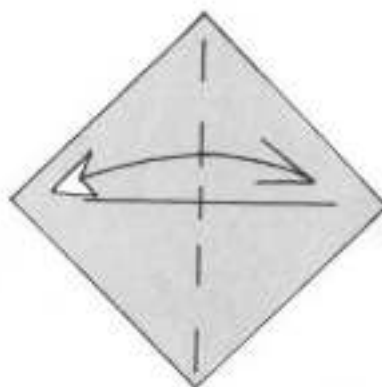


4. RABBIT EAR

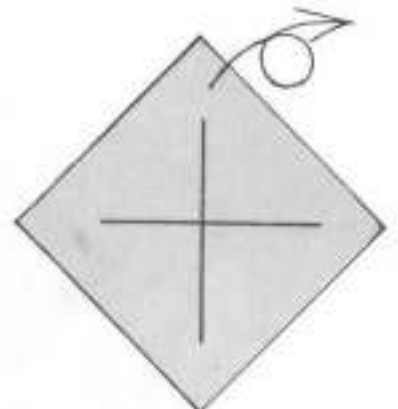
Preliminary-fold



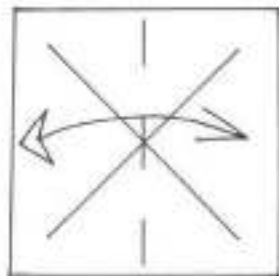
1. Fold diagonally in half, then unfold.



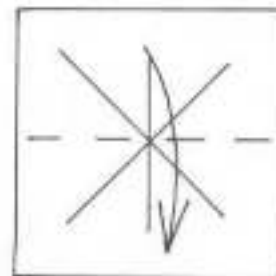
2. Repeat.



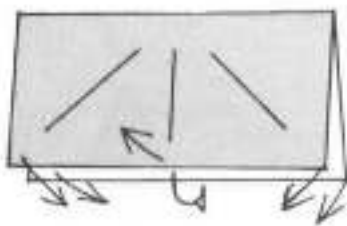
3. Turn over model, then turn clockwise.



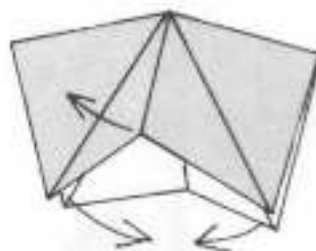
4. Fold in half, then unfold.



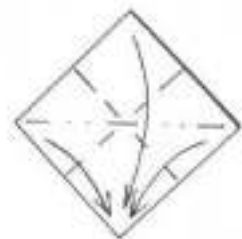
5. Fold in half.



6a. Fold along creases.



6b. Appearance just before completion.

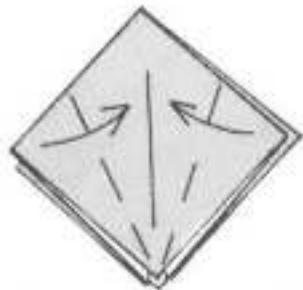


Synopsis of steps 1-6b.



7. PRELIMINARY-FOLD

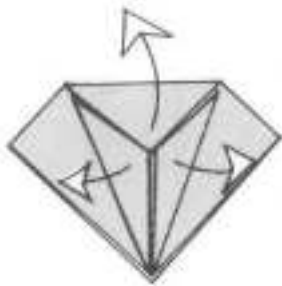
Petal-fold I



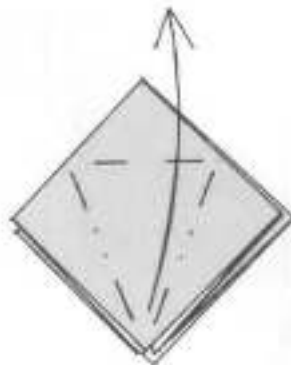
1. Begin with preliminary-fold, then kite-fold.



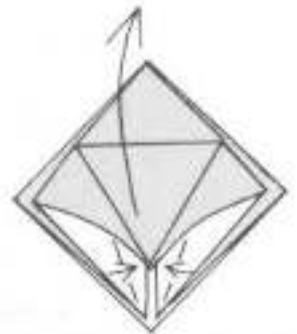
2. Fold triangular tip down.



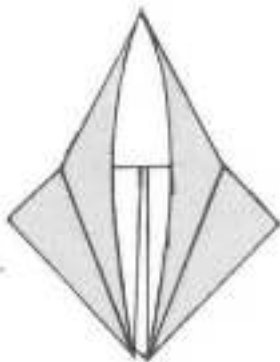
3. Unfold tip, then kite-fold.



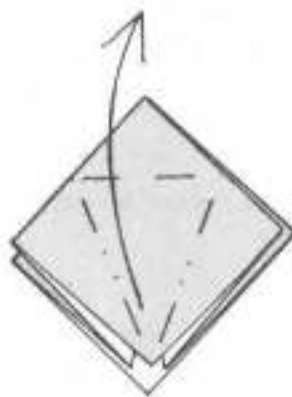
4a. Lift top layer up along creases.



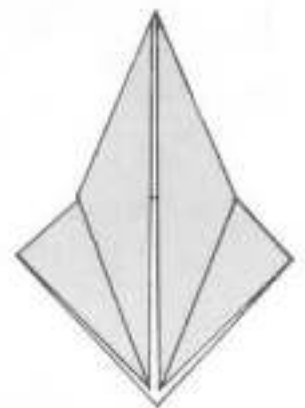
4b. Fold along creases while lifting.



4c. Appearance just before completion.

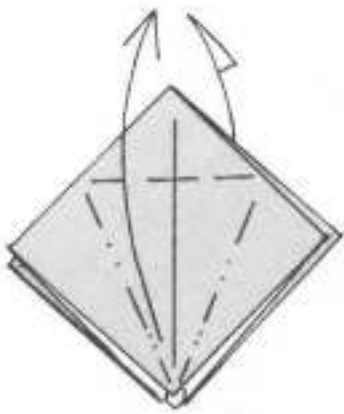


Synopsis of steps 1-4c.



5. PETAL-FOLD I

Bird Base



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



2. Fold tops of both sides down.

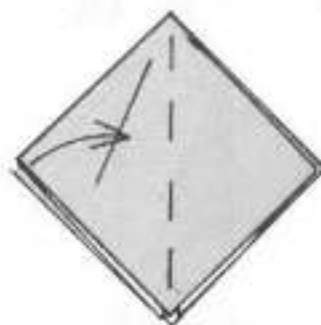


3. BIRD BASE

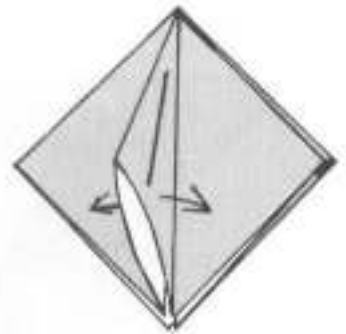
Squash-fold



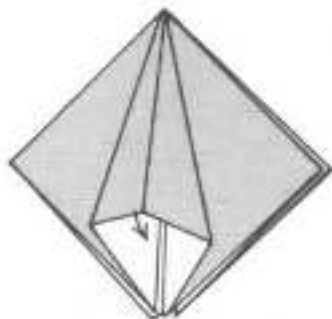
1. Begin with preliminary-fold, then fold and unfold as shown.



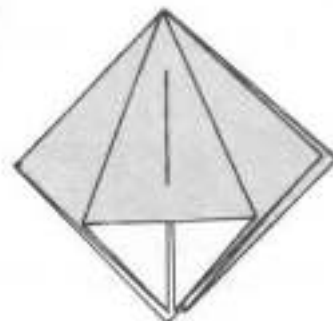
2. Lift flap out from sheet.



3. Insert finger inside flap to squash it.



4. Flatten squashed flap.

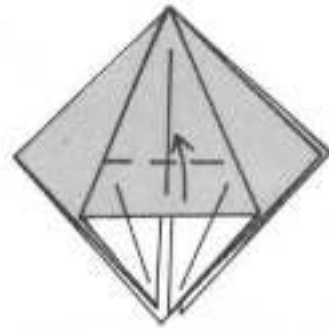


5. SQUASH-FOLD

Petal-fold II



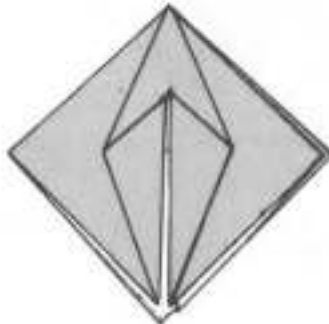
1. Begin with preliminary-fold, squash-fold one layer. Fold and unfold the kite-fold.



2. Fold edge up into a point.

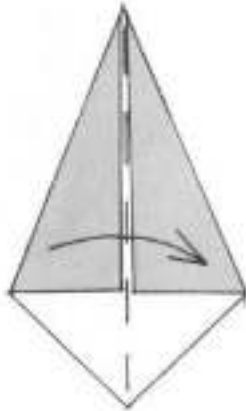


3. Fold along edges.

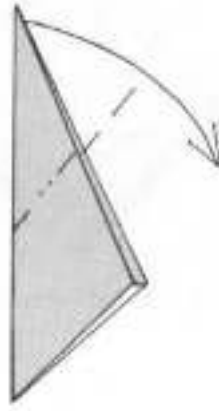


4. PETAL-FOLD II

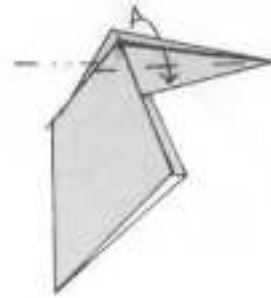
Double Rabbit Ear



1. Begin with kite-fold, then fold in half.



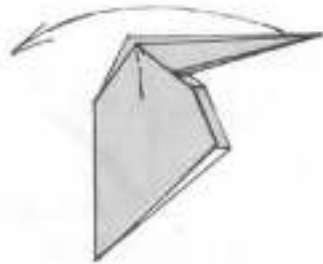
2. Inside reverse-fold.



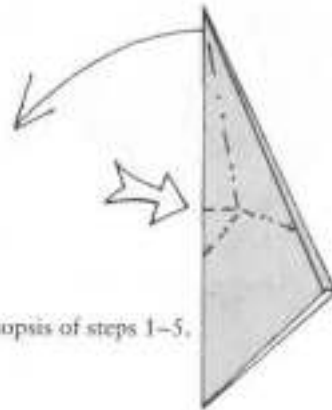
3. Fold each flap in half.



4. Fold base of point behind.



5. Reverse-fold. (This step may be omitted to produce this alternate form.)

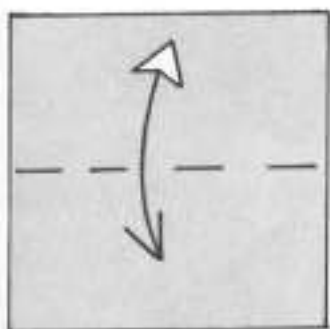


Synopsis of steps 1-5.

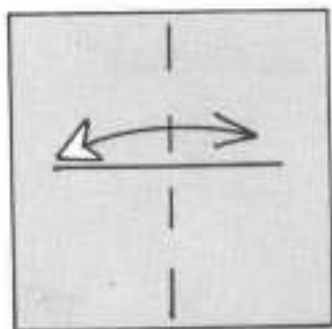


6. DOUBLE RABBIT EAR

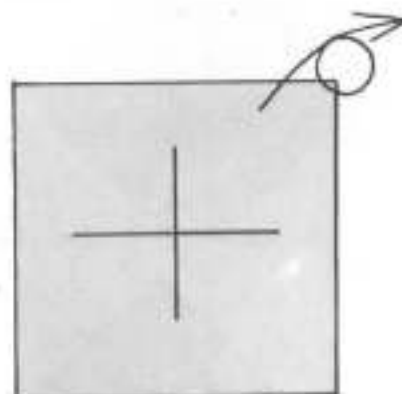
Water Bomb Base



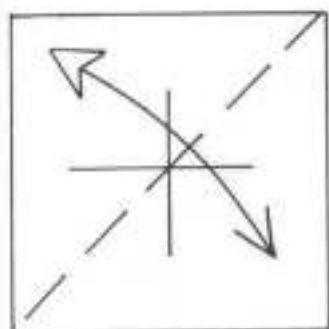
1. Fold horizontally in half, then unfold.



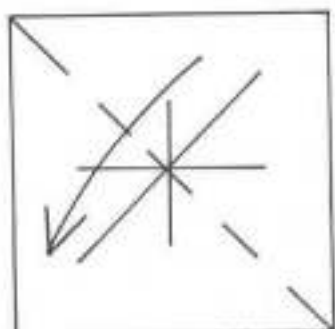
2. Fold vertically in half, then unfold.



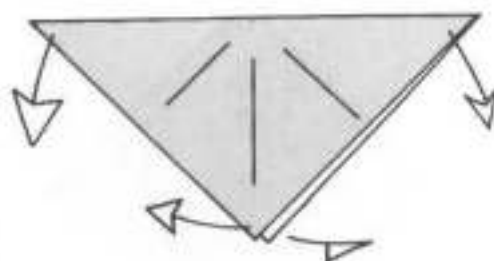
3. Turn model over.



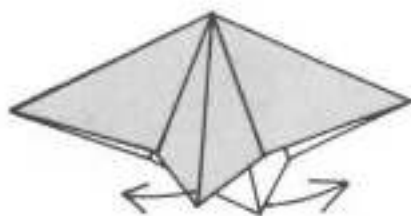
4. Fold diagonally in half, then unfold.



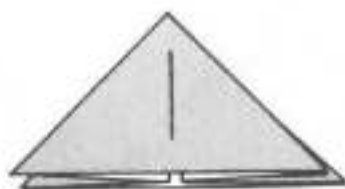
5. Fold diagonally in half along dashed line.



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

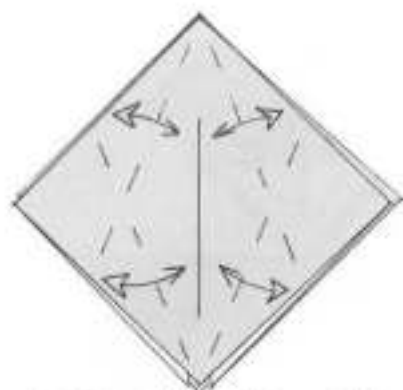


7. Fold along creases.

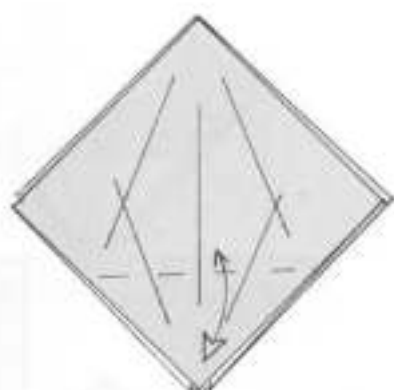


8. WATER BOMB BASE

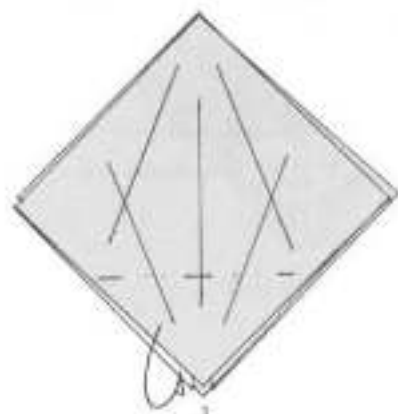
Brontosaurus Base



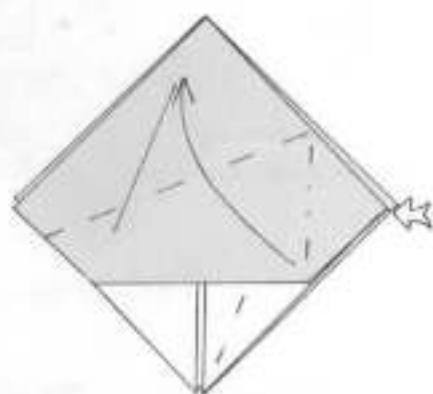
1. Begin with the preliminary-fold.



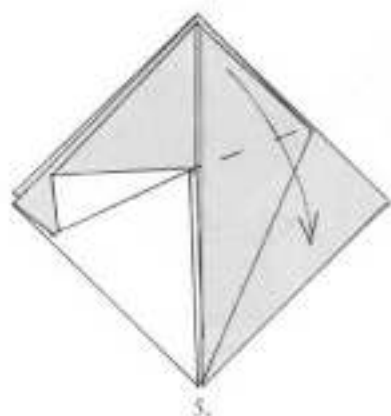
2.



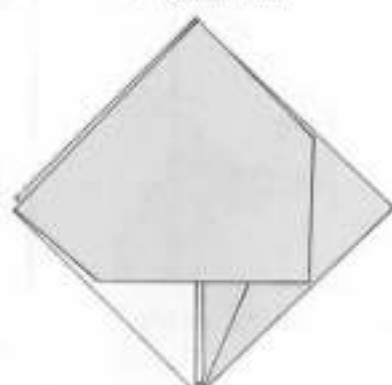
3.



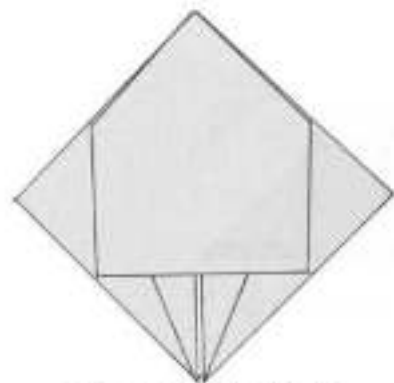
4. Squash-fold.



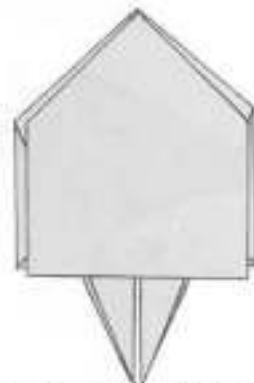
5.



6. Repeat steps 4 & 3 on the left side.

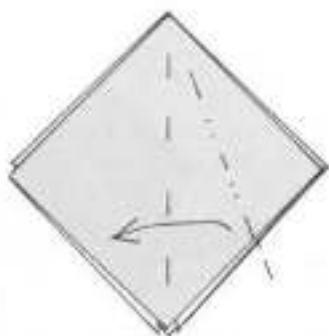


7. Repeat steps 1-6 behind.

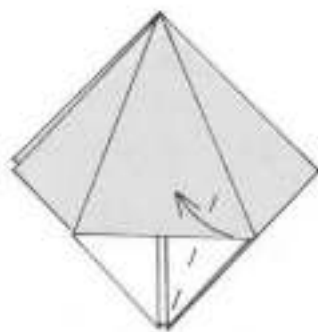


8. BRONTOSAURUS BASE

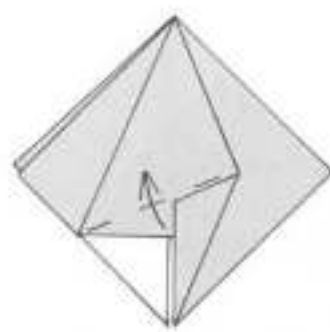
Wing-fold



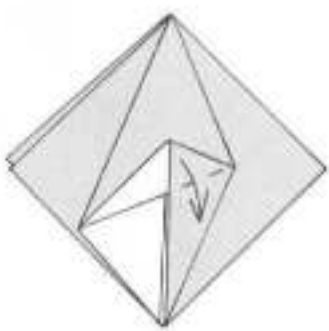
1. Begin with the preliminary fold. Squash-fold.



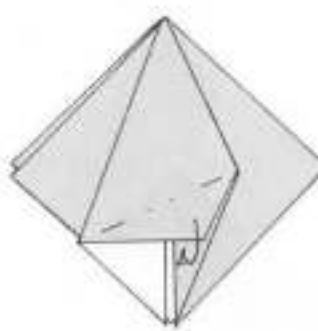
2.



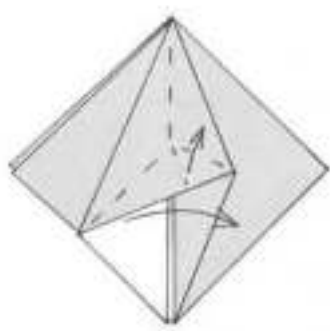
3.



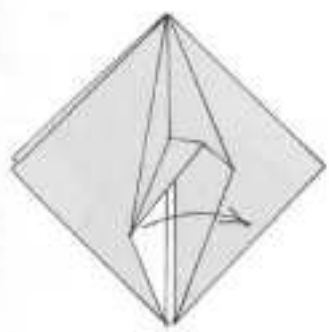
4.



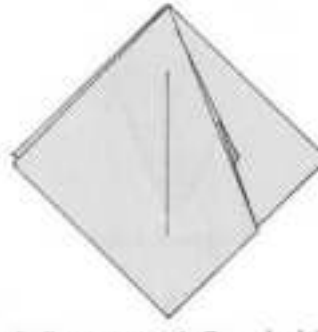
5.



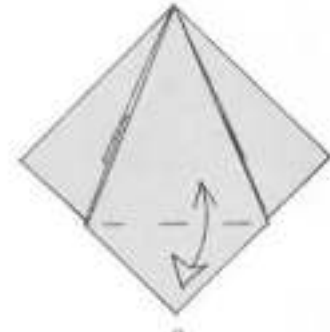
6.



7.



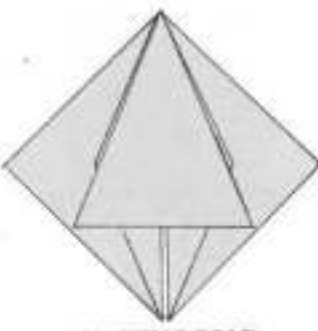
8. Repeat steps 1-7 on the left side.



9.

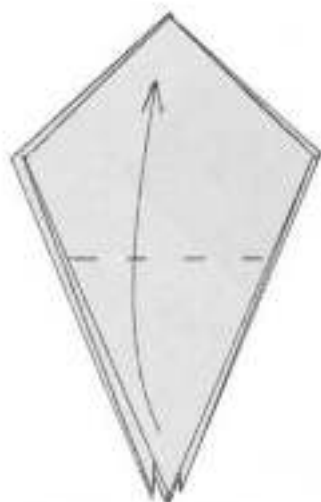


10.

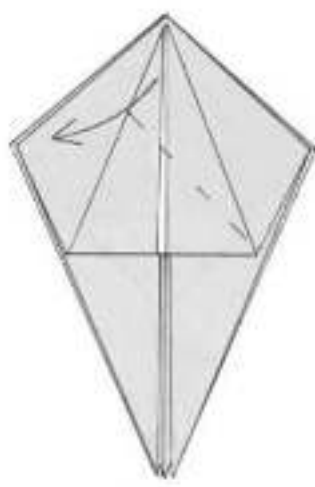


11. WING-FOLD

ANGELFISH



1. Begin with the bird base.



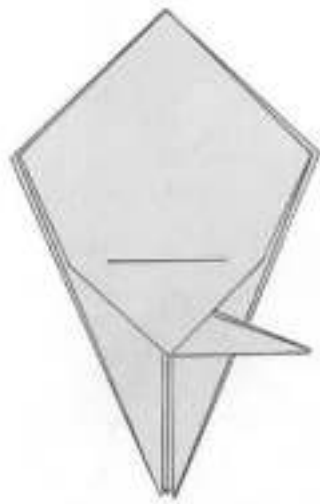
2.



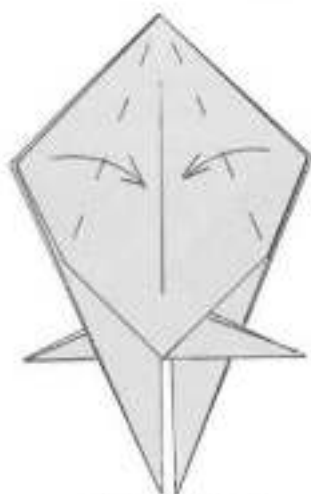
3. Squash-fold.



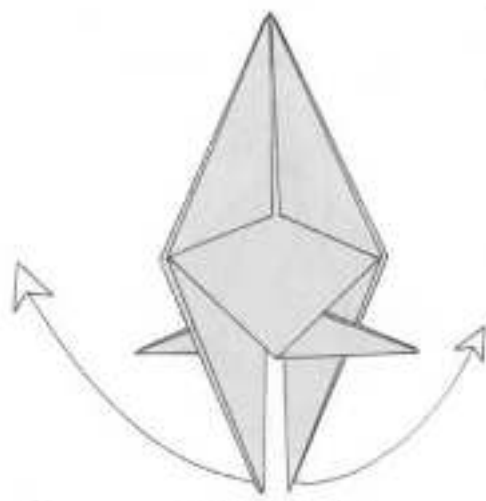
4.



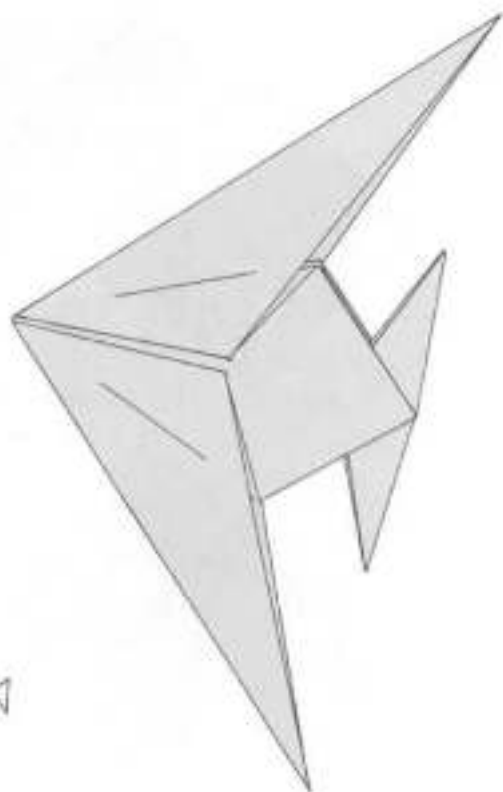
5. Repeat steps 1-4 behind.



6. Repeat behind.

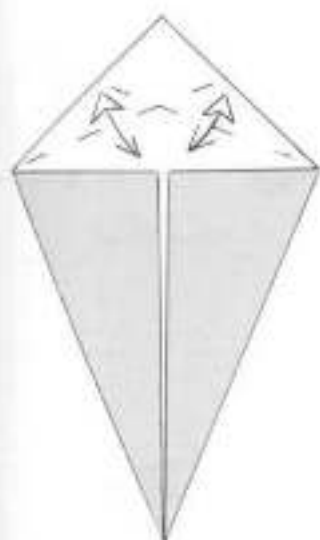


7. Pull out carefully.

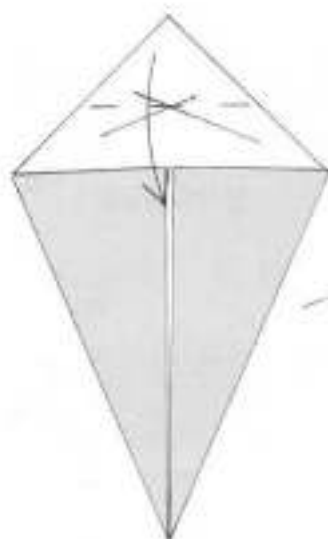


8. ANGELFISH

SEAL



1. Begin with the kite-fold.



2.



3.



4.



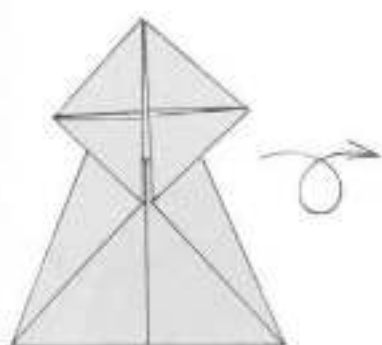
5.



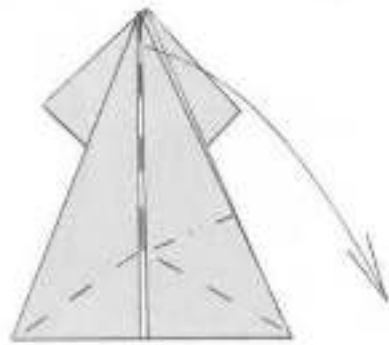
6.



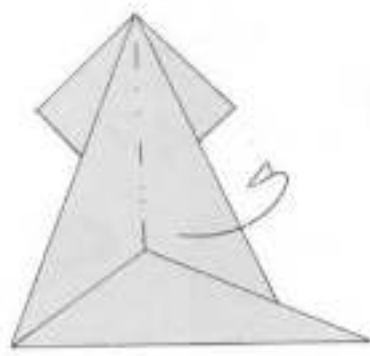
7. Repeat steps 5 & 6 on the right side.



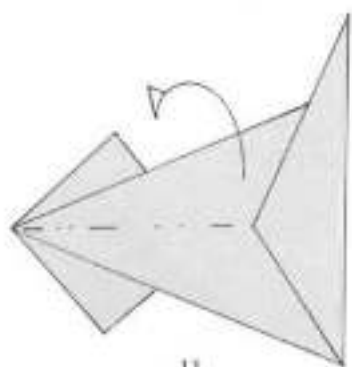
8.



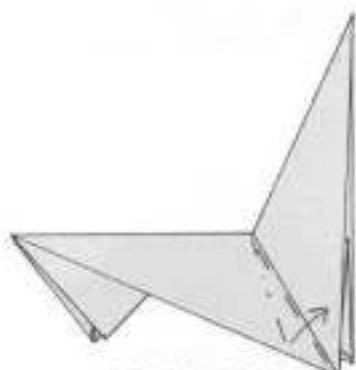
9. Rabbit ear.



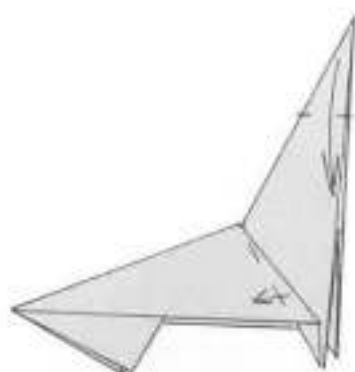
10.



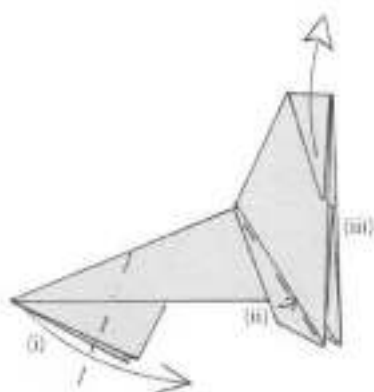
11.



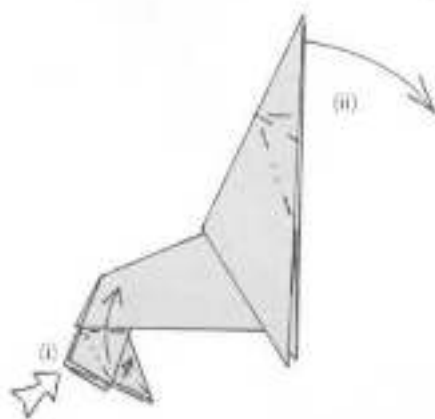
12. Crimp-fold.



13. Repeat behind.



14. (i) Reverse-fold.
(ii) Tuck inside; repeat behind.
(iii) Unfold.



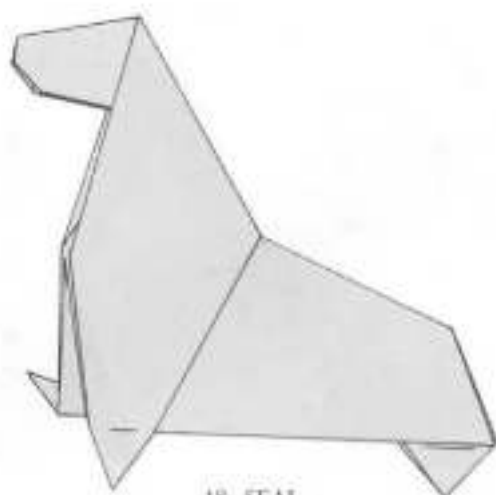
15. (i) Squash-fold; repeat behind.
(ii) Crimp-fold.



16. Reverse-fold inside the body.

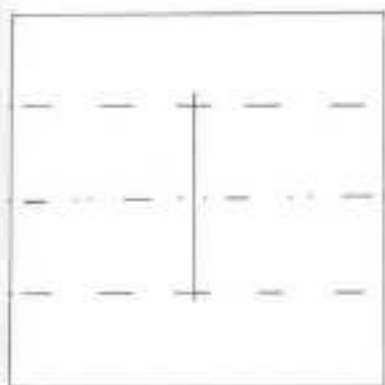


17.



18. SEAL

WALRUS



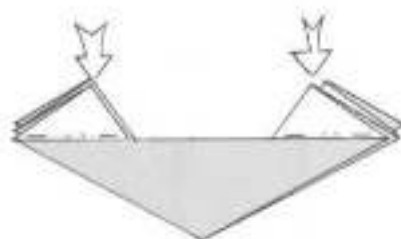
1.



2. Repeat behind.



3. Reverse-folds; repeat behind.



4. Reverse-folds; repeat behind.



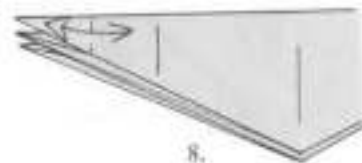
5. Reverse-folds; repeat behind.



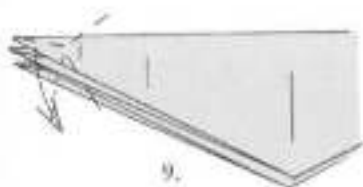
6.



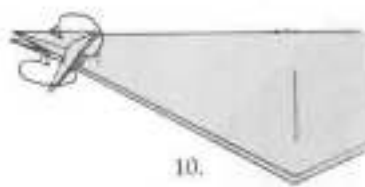
7.



8.



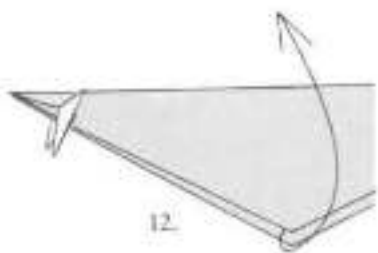
9.



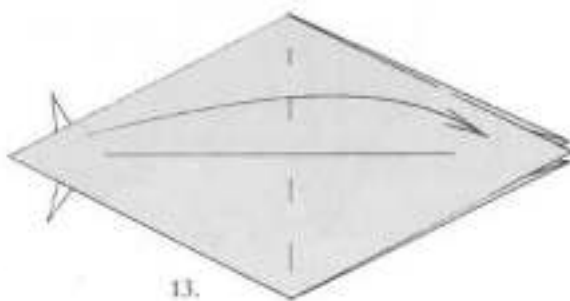
10.



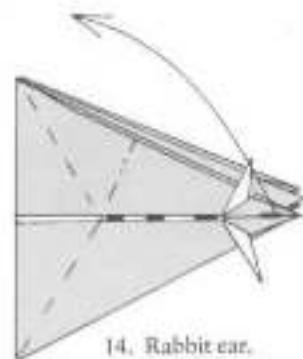
11. Repeat steps 6–10 behind to form the other tusk.



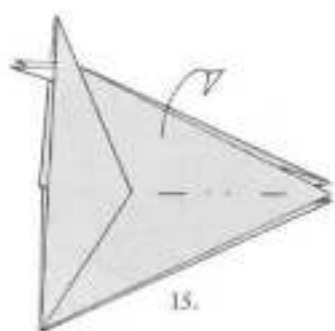
12.



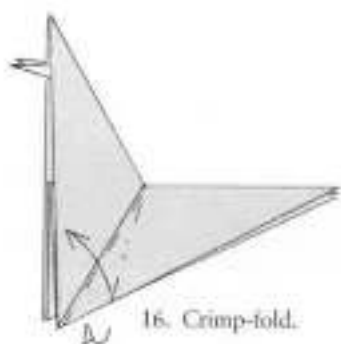
13.



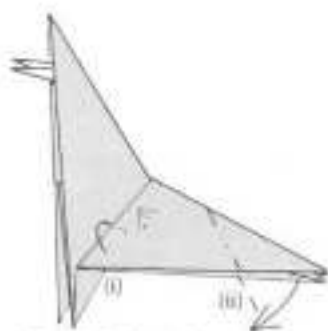
14. Rabbit ear.



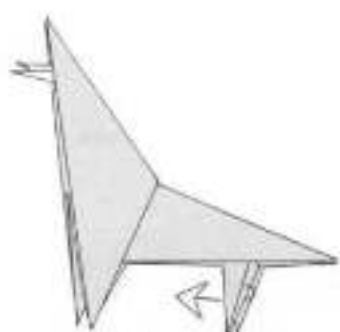
15.



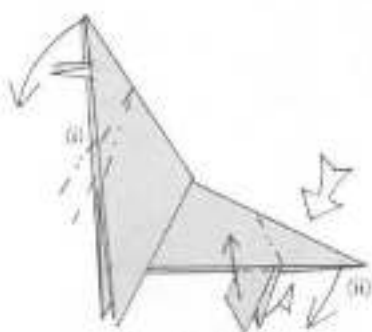
16. Crimp-fold.



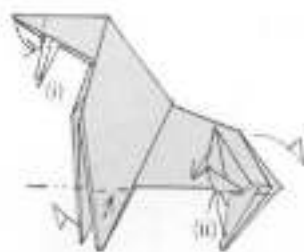
17. (i) Tuck inside.
(ii) Reverse-fold; repeat behind.



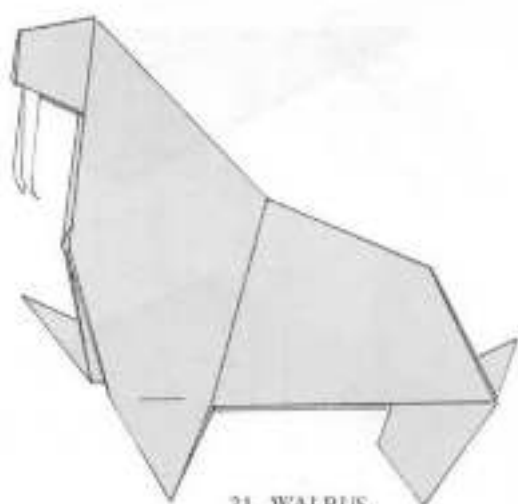
18. Repeat behind.



19. (i) Crimp-fold.
(ii) Reverse-fold.

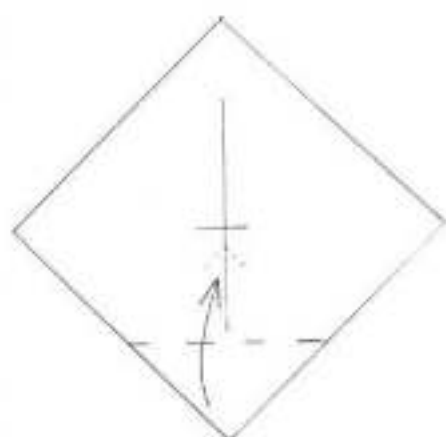


20. (i) Curve tucks.
(ii) Tuck inside.

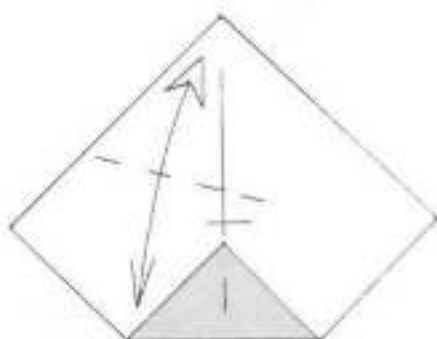


21. WALRUS

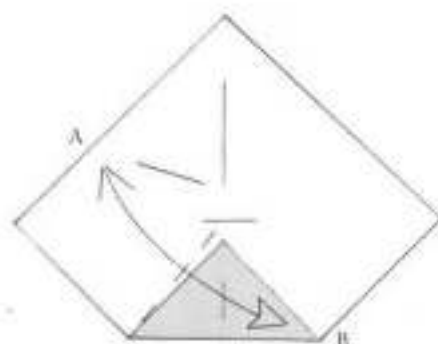
STARFISH



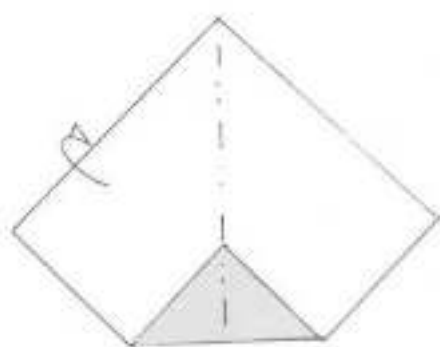
1. Crease lightly.



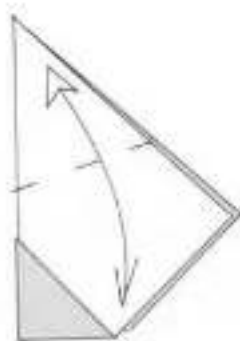
2. Crease lightly.



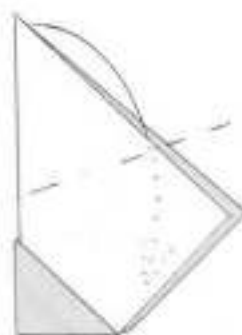
3. If B touches A exactly, then crease the fold sharply from step 1 and continue. Otherwise repeat steps 1-3.



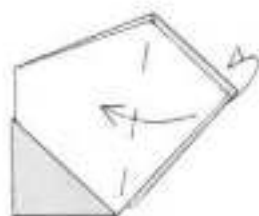
4.



5.



6. Reverse-fold.



7.



8.



9.



10.

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