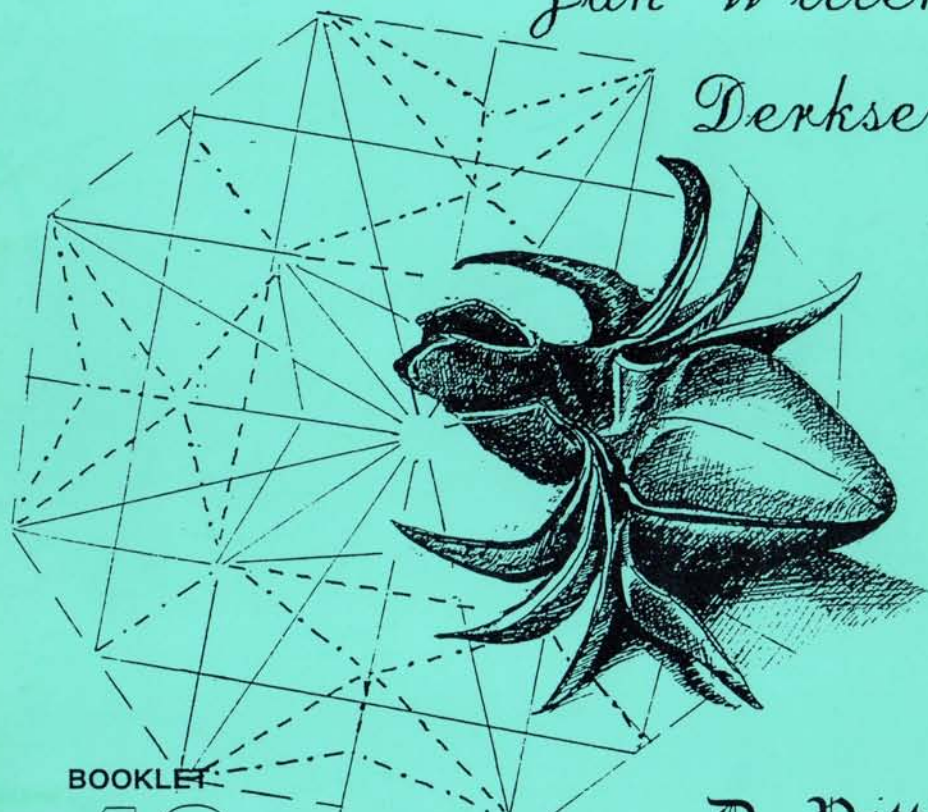




*The Genius
of
Jan Willem
Derksen*



BOOKLET

40

D. Petty

The Genius of Jan Willem Derksen

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D. Petty

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The author thanks Edwin Corrie and Jeff Beynon for proofing the diagrams. Let it be understood that if errors do remain then they are entirely the responsibility of the author.

The author thanks Mike Bridges who performed the thankless task of final shaping and publishing. The author thanks Enio Capra for permission to use his diagrams as a basis for the "Rabbit".

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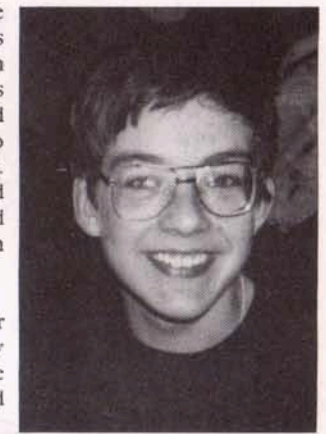
Printed in the United Kingdom

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BEA INTRODUCTION.

Many readers will not be familiar with the name of the creator of the origami in this book. This is understandable, since Jan Willem Derksen lived in Holland. He was virtually isolated from rest of the world origami community. It is important to remember this when appreciating his models. On first contact, I was immediately impressed by the technical standard of his folding and creating. In this book is the entire collection of his known work.



The models will, of course, speak for themselves. I would simply add that they range from simple to complex. They are arranged in alphabetical order, without regard to their complexity, in this publication.

I would like to draw to the readers attention the technique used in the models "Gemini" and "Spider" to produce the required number of points. [Birdbase surrounded by rectangular areas that have a near-birdbase crease pattern]. This is a new technique to the author and clearly marks the creator as innovative in the field of technique as well as model creation.

This would have been entirely a purists' book except for the inclusion of two models that do require gluing in the final assembly. My arguments for their inclusion are: that it is relatively simple to avoid most of the gluing [by starting with modified paper sizes] and that they provide a starting point for others to attempt to improve on.

The diagrams in this book have mostly been made directly from original models in the absence of original diagrams. Because of this, the final model is authentic but the folding sequence may vary from the original. In those cases where there were alternatives the simplest method has been diagrammed.

I thoroughly recommend folding the models in this book. Some are truly stunning. The quality of the models kept me going through the times when drawing diagrams seemed impossible and understanding the folding sequence would have defeated an Einstein. I know that you will agree with me if you give the models a go.

D.Petty.
10/9/92



This model will not be built with the
use of the center of the square in the
case of the square. This is important, since the
When folded back in the middle the
model, especially if it is important to
remember the which appearance in model.
(The model I was shown, impressed
by the texture, made of a folding and
created at the back a the same collection
of the same way.

The model will of course speak for
itself. I would suggest that the
steps from square to complete. They are
described in the order, without regard
to their complexity, in the picture.

I would like to refer to the model in the technique used in the
model. (The model, and the model, are the same number of points
The model is described in the order, and the model, are the same
as in the model, and the model, are the same as in the model.
The model is described in the order, and the model, are the same
as in the model, and the model, are the same as in the model.

The model has been built a point, but except for the incision of two
model, the model, are the same as in the model, and the model,
The model is described in the order, and the model, are the same
as in the model, and the model, are the same as in the model.

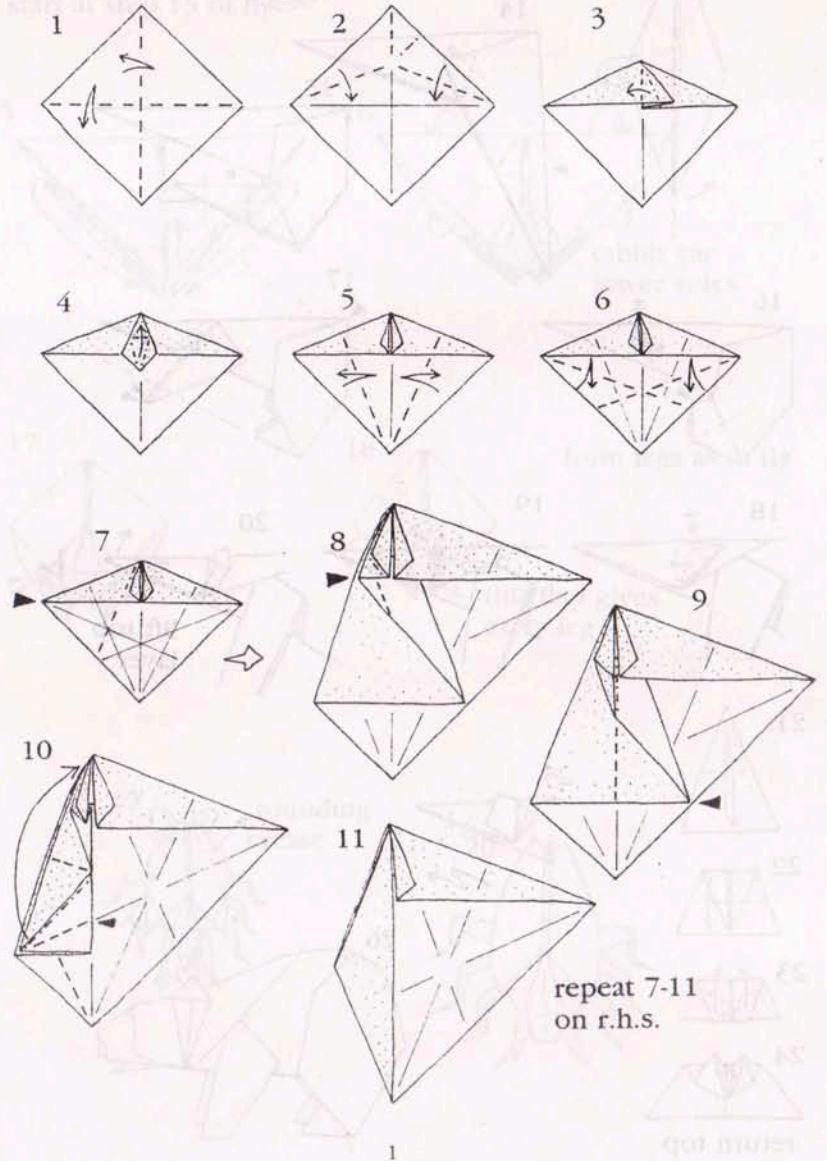
The diagrams in this book have mostly been made directly from original
models in the shape of original papers. Because of this, the final model
is different, but the folding sequence may vary from the original. In these
cases where there were differences, the original model, the final
diagram.

The model is described in the order, and the model, are the same
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The model is described in the order, and the model, are the same
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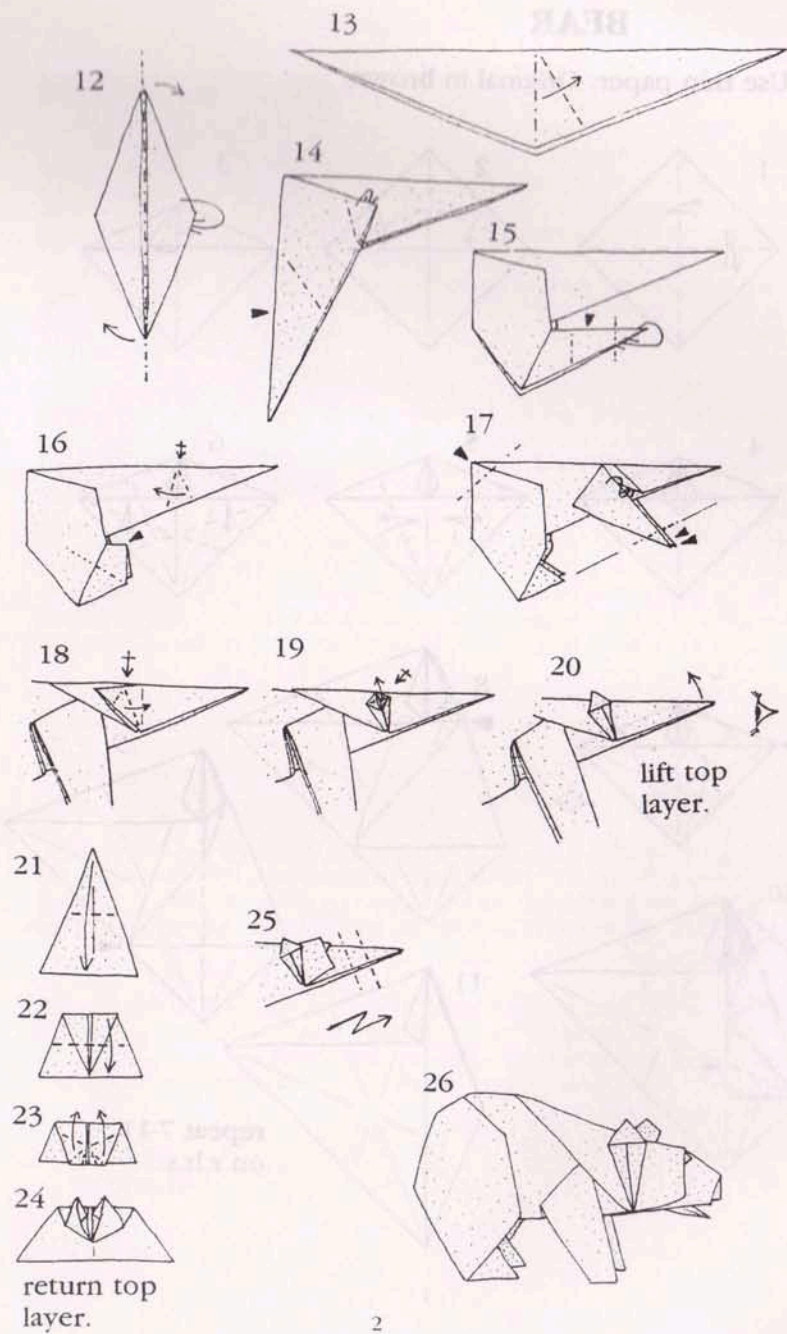
© Bear
1992

BEAR

Use thin paper. Original in brown.



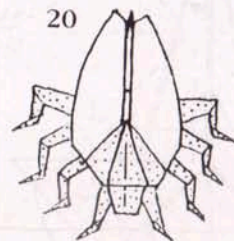
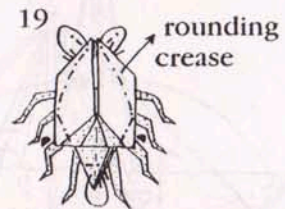
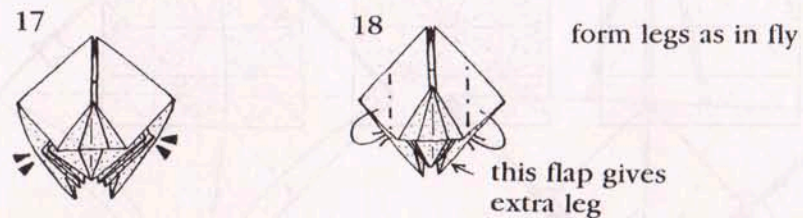
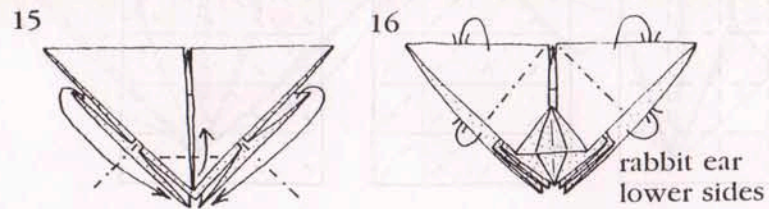
repeat 7-11
on r.h.s.



BEETLE

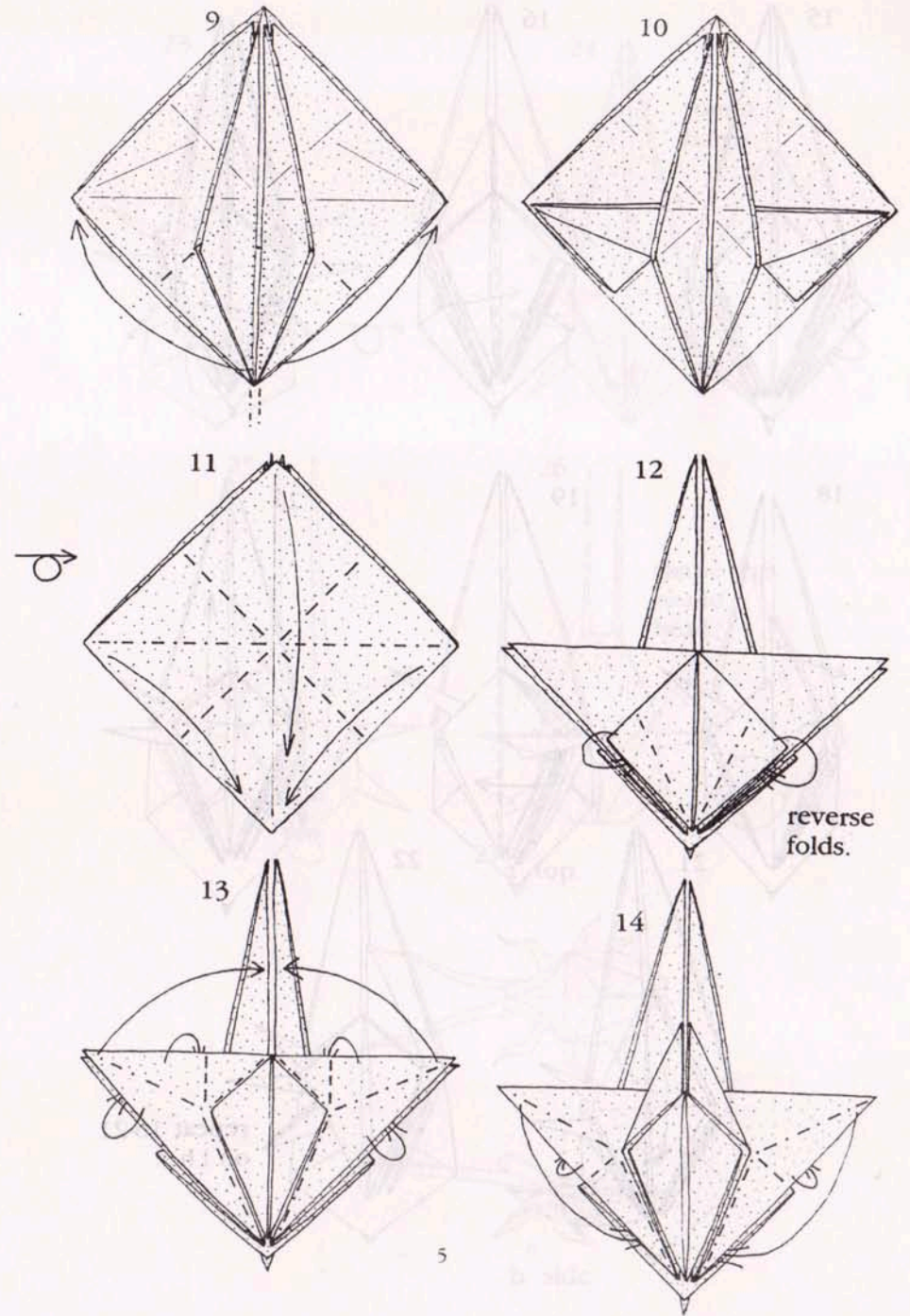
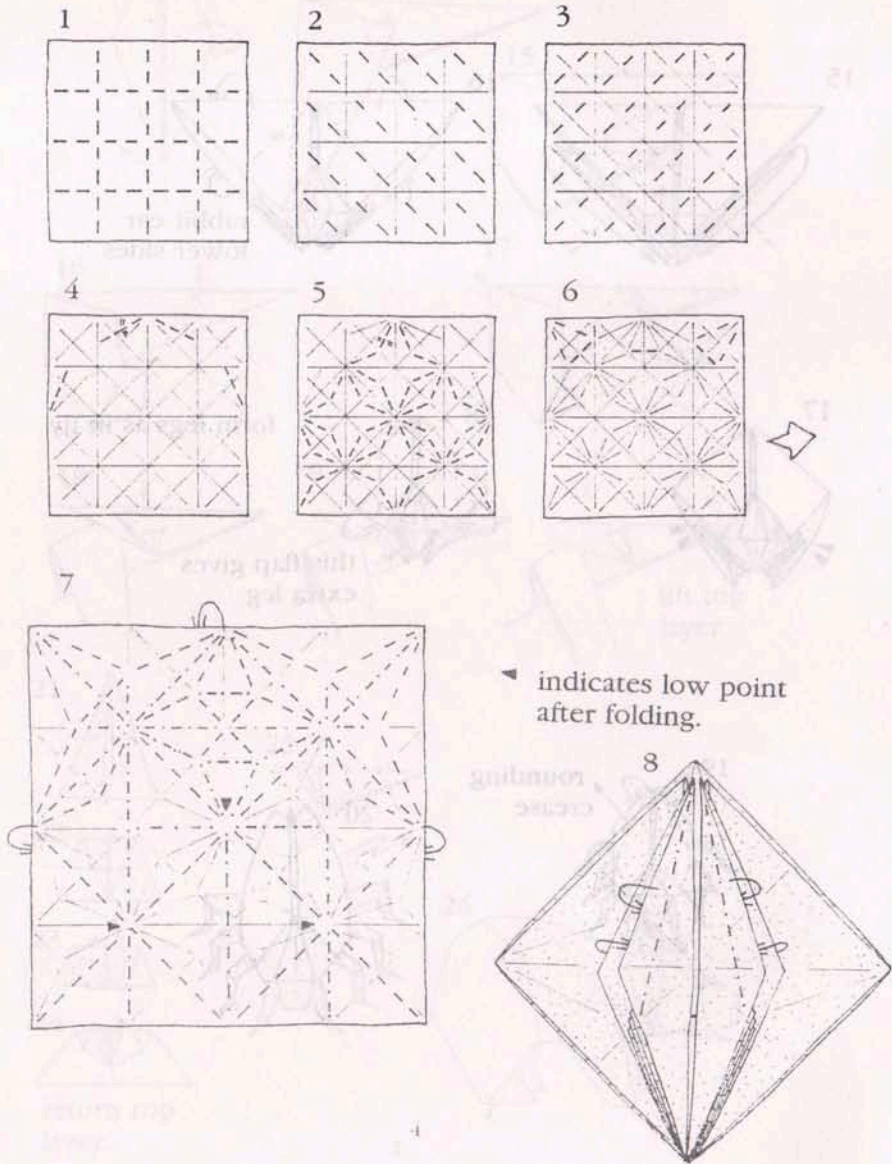
Use foil or tissue covered foil. Original in black and red.

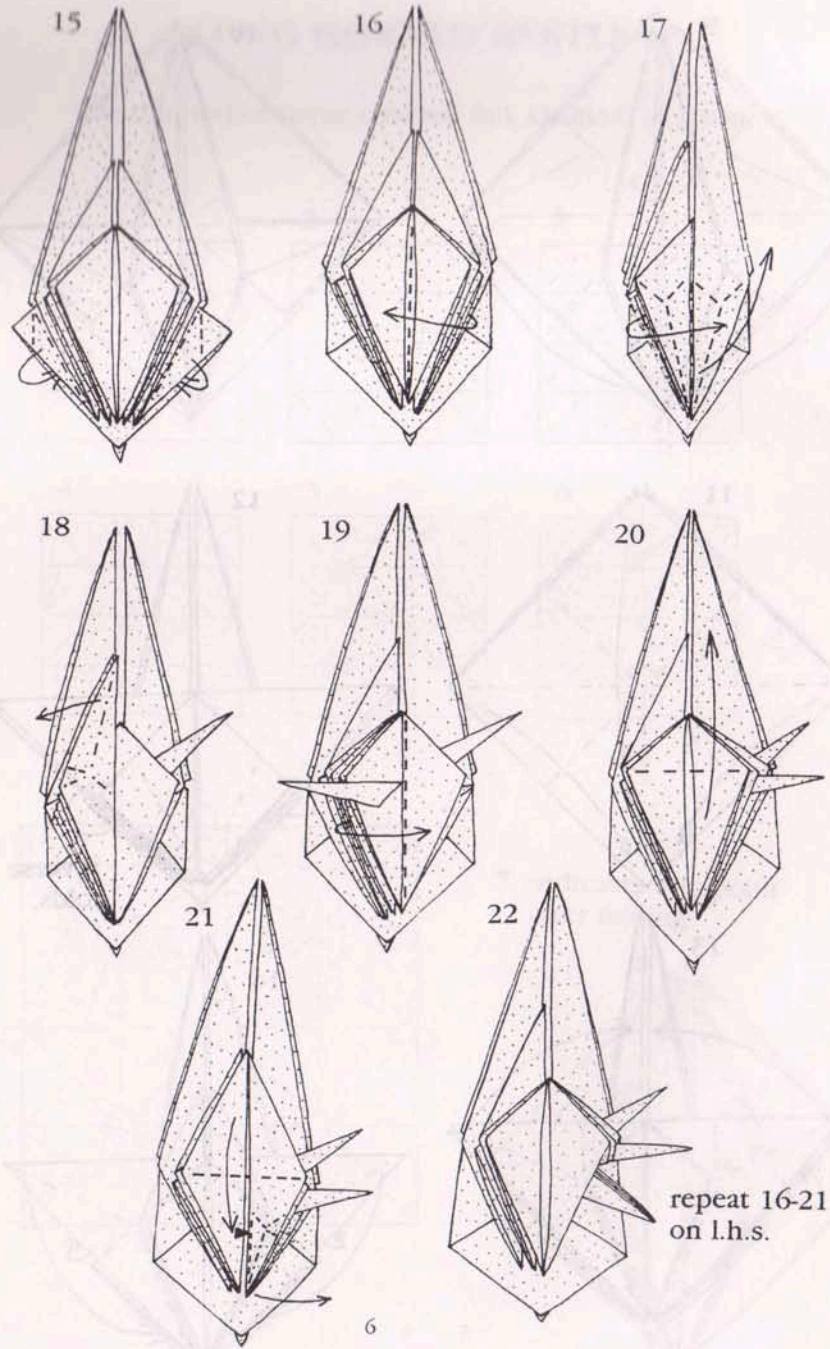
start at step 15 of fly



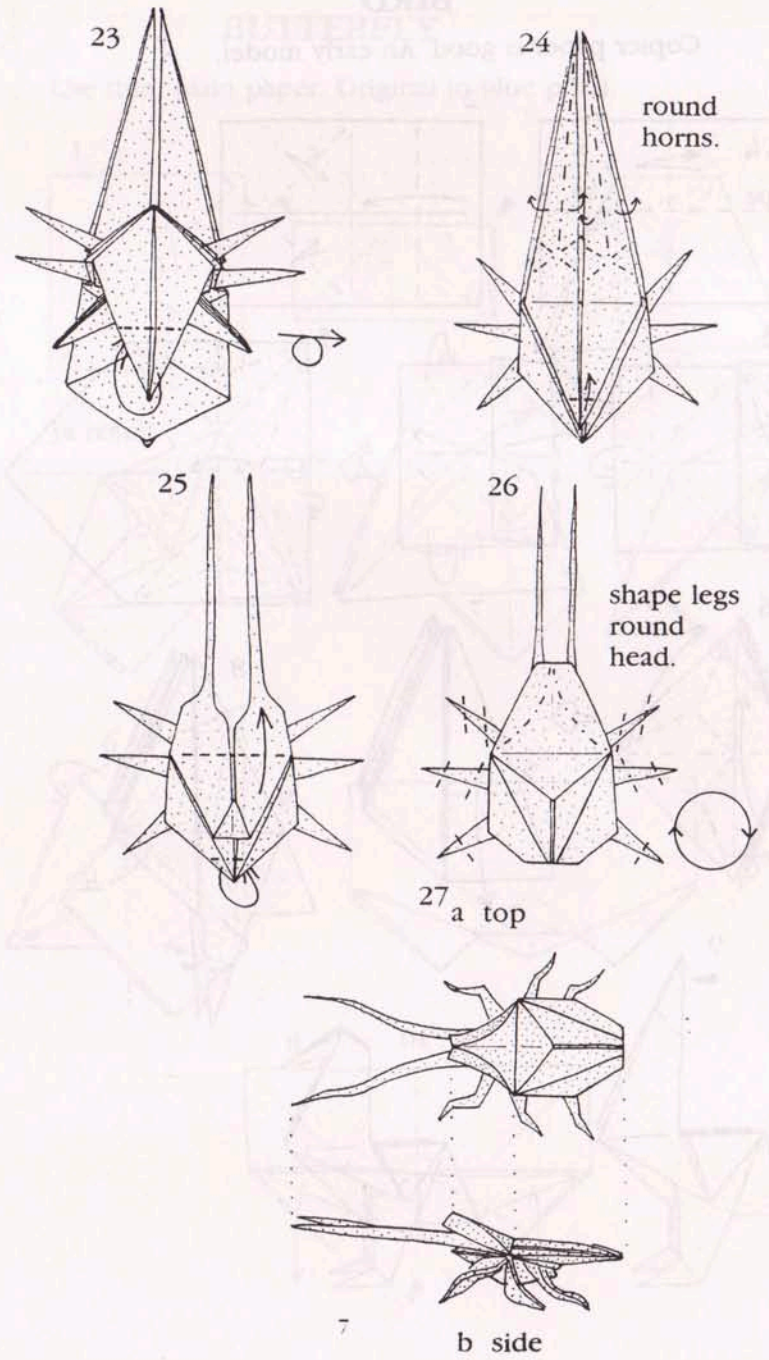
LONG HORNED BEETLE

Use thin foil or tissue covered foil. Original in green.





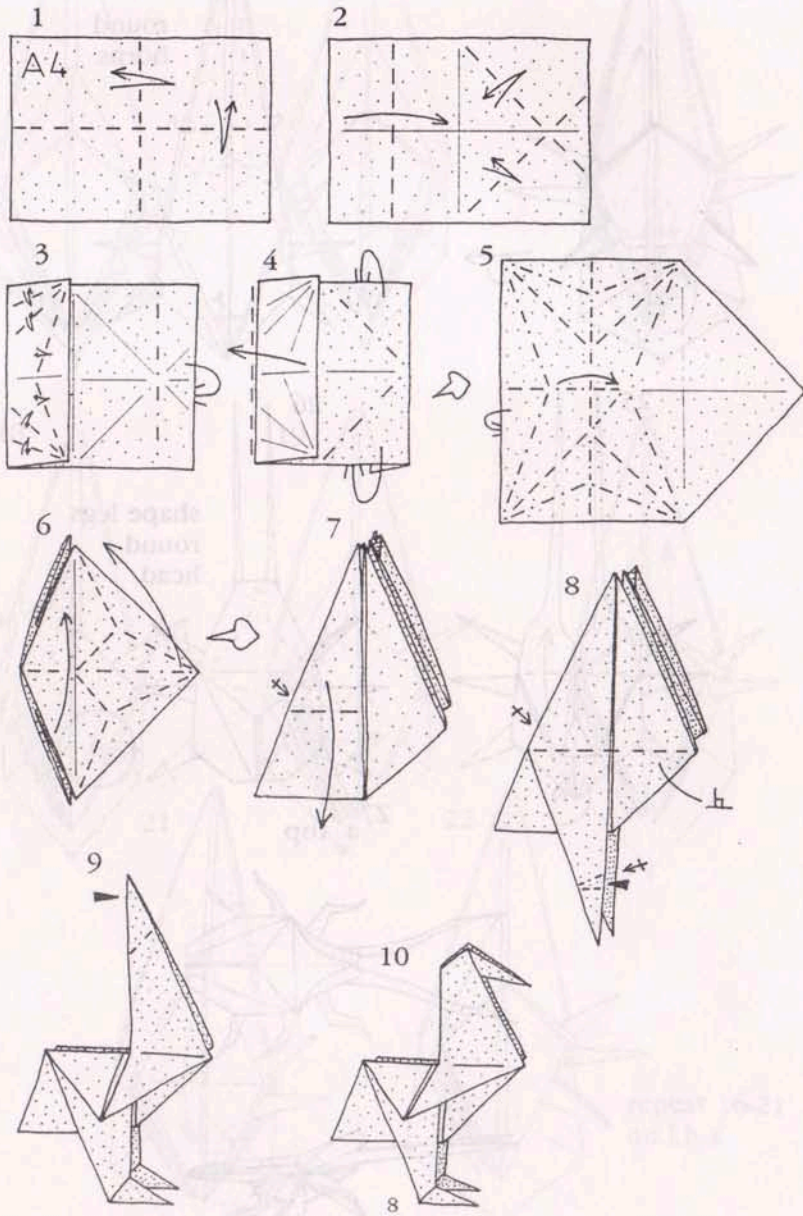
6



7

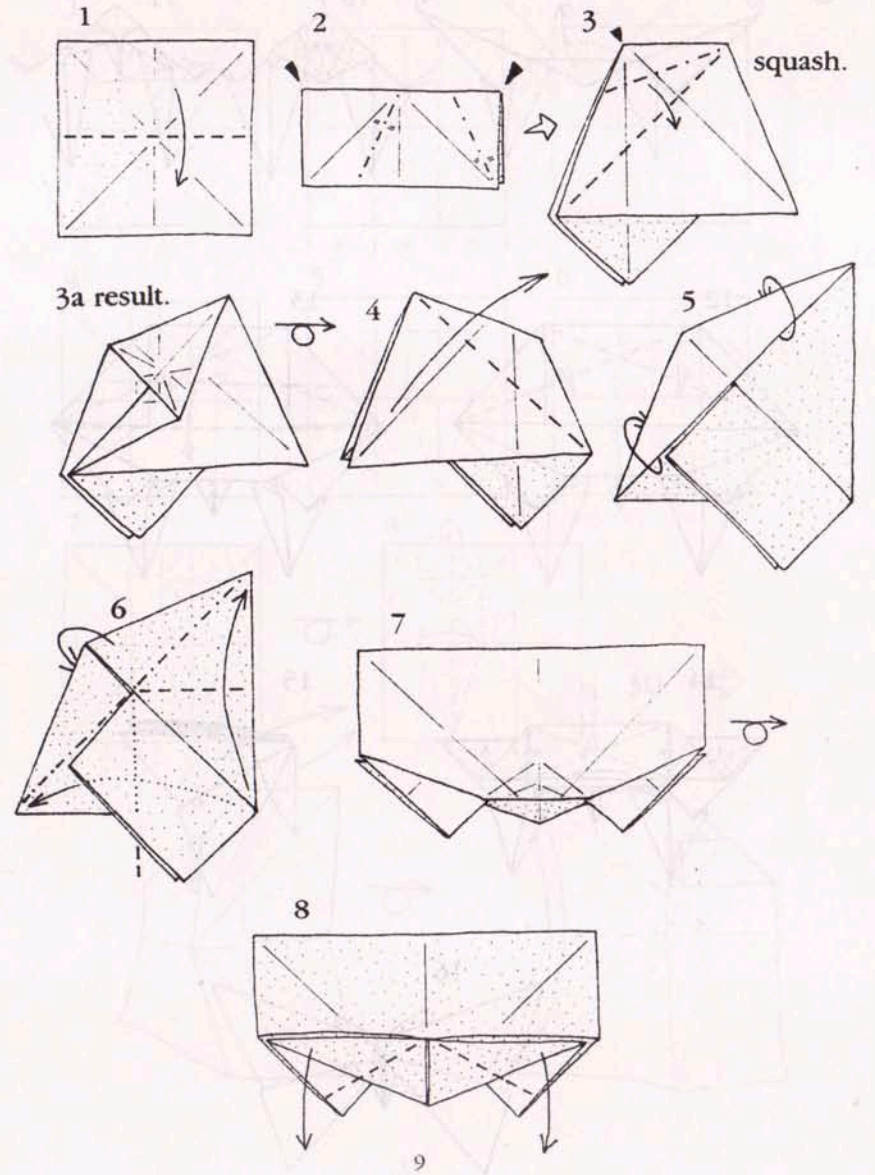
BIRD

Copier paper is good. An early model.



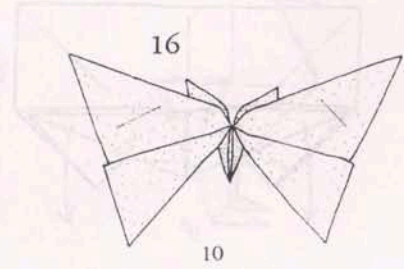
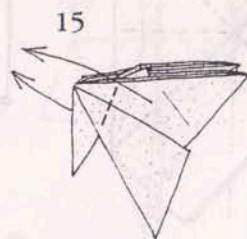
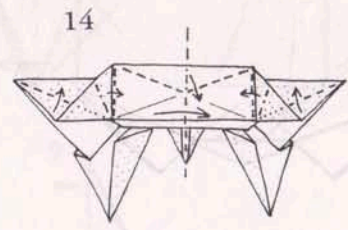
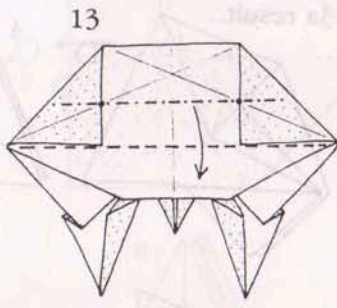
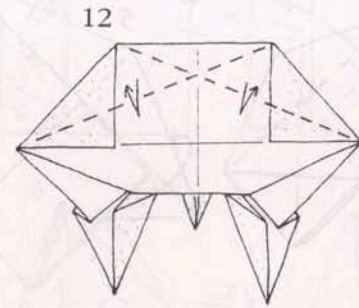
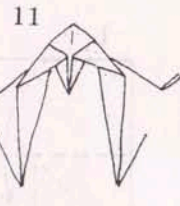
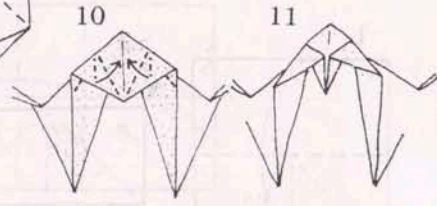
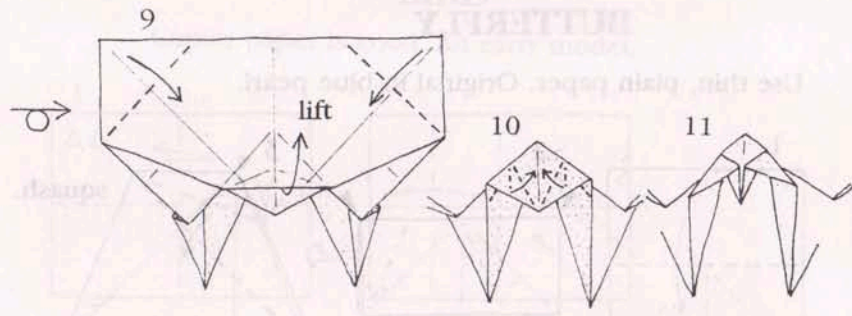
BUTTERFLY

Use thin, plain paper. Original in blue pearl.

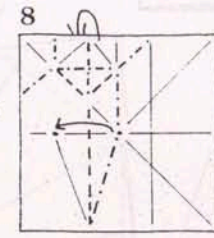
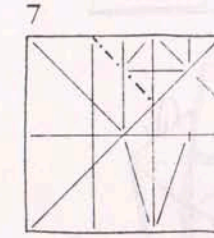
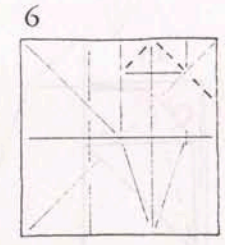
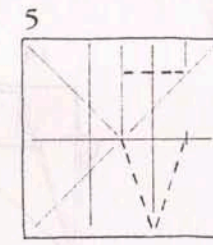
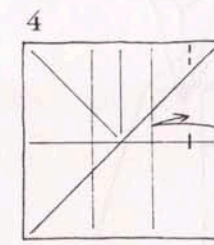
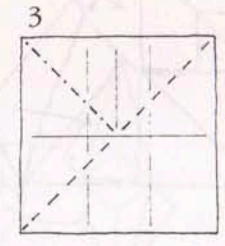
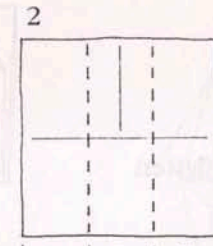
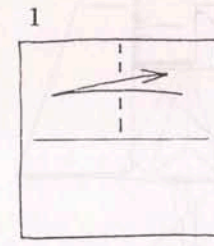


PENETRATING CUBE MODULE

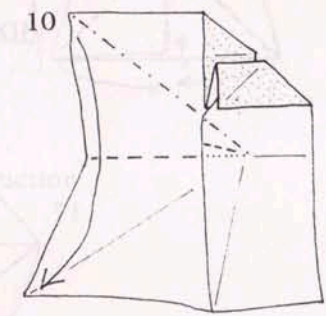
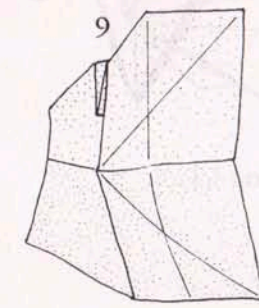
Use plain paper in 2 contrasting colours.



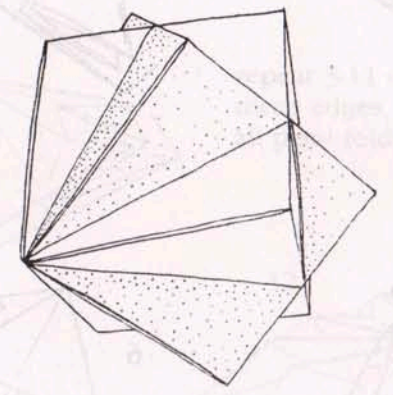
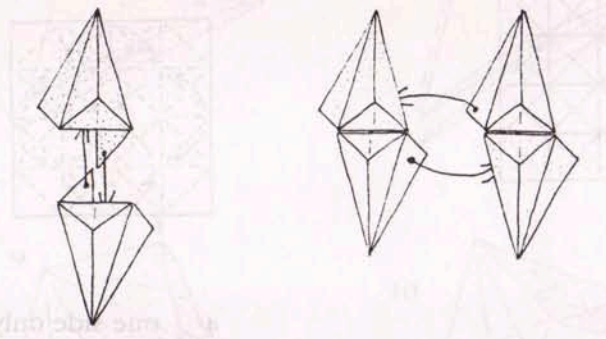
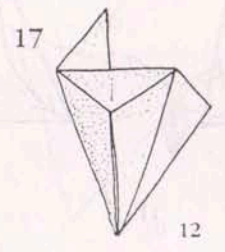
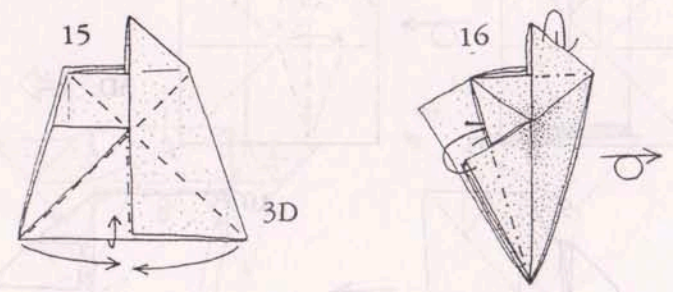
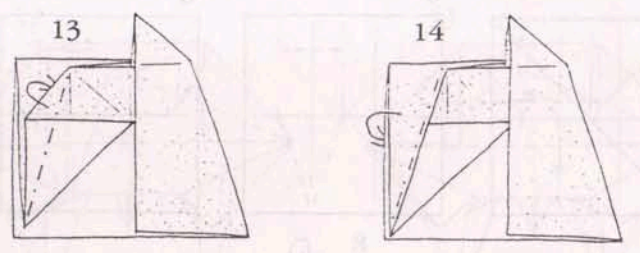
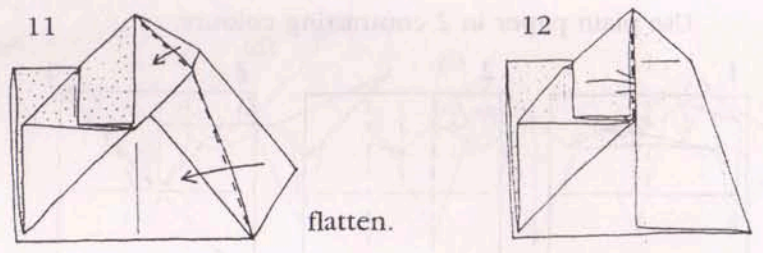
10



3D. →



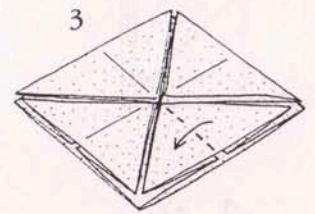
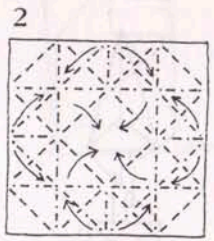
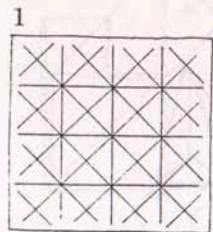
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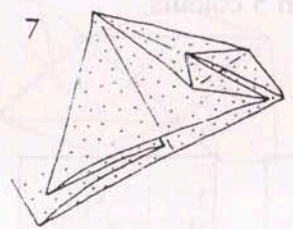
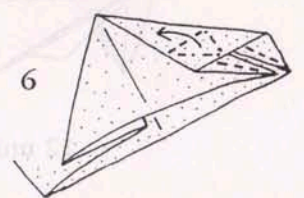
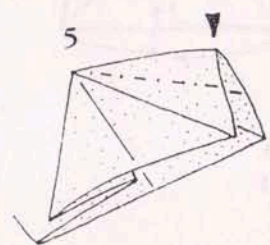
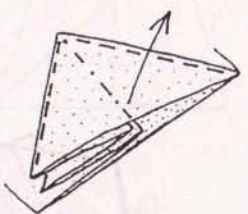
12 unit construction.

3D DECORATION

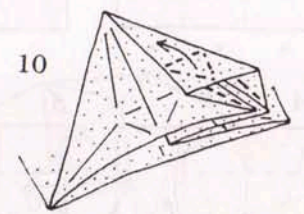
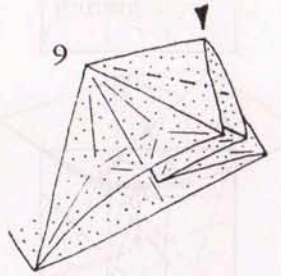
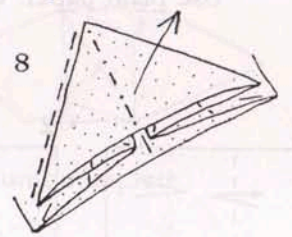
Use plain, strong, stiff paper. Original in green.



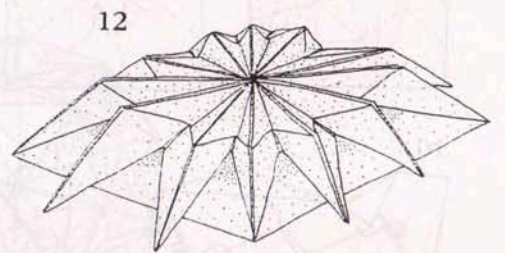
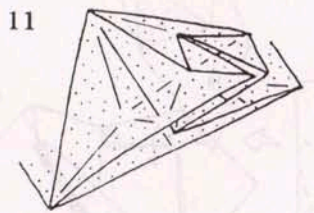
4 one side only shown.



unfold to step 3,
repeat 3-7 on l.h.s.

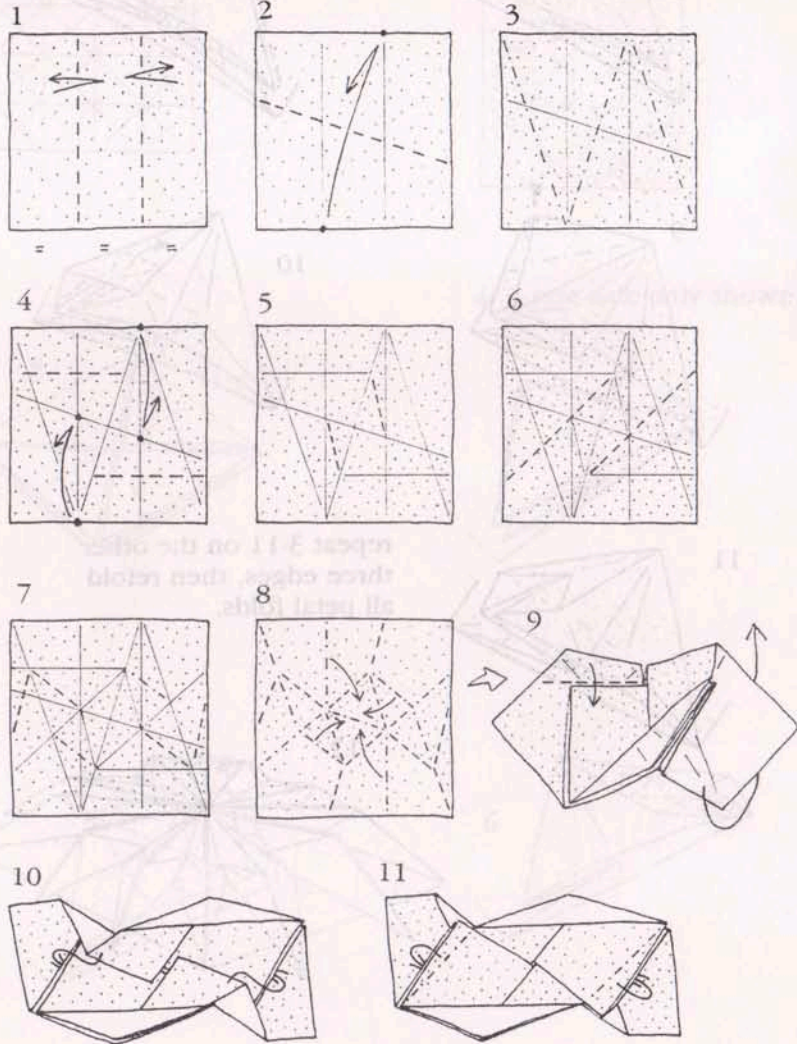


repeat 3-11 on the other
three edges, then refold
all petal folds.

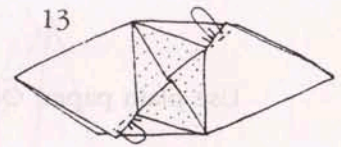
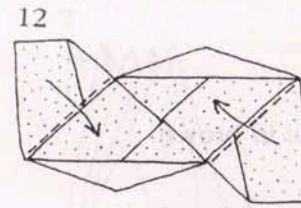


STAR PATTERNED DODECAHEDRON

Use plain paper. Original in 5 colours.

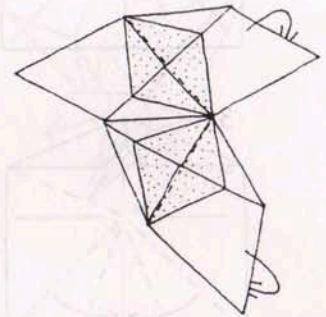
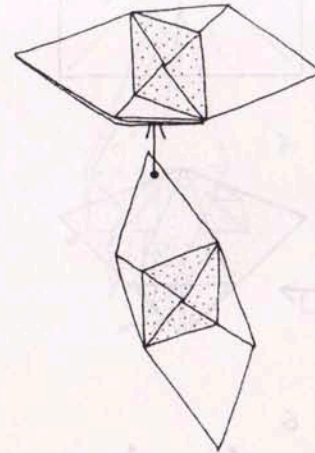


16

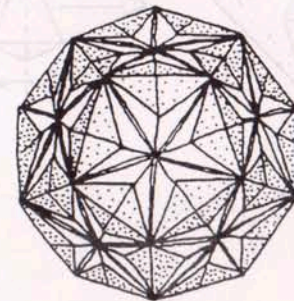


unit complete.

joining.



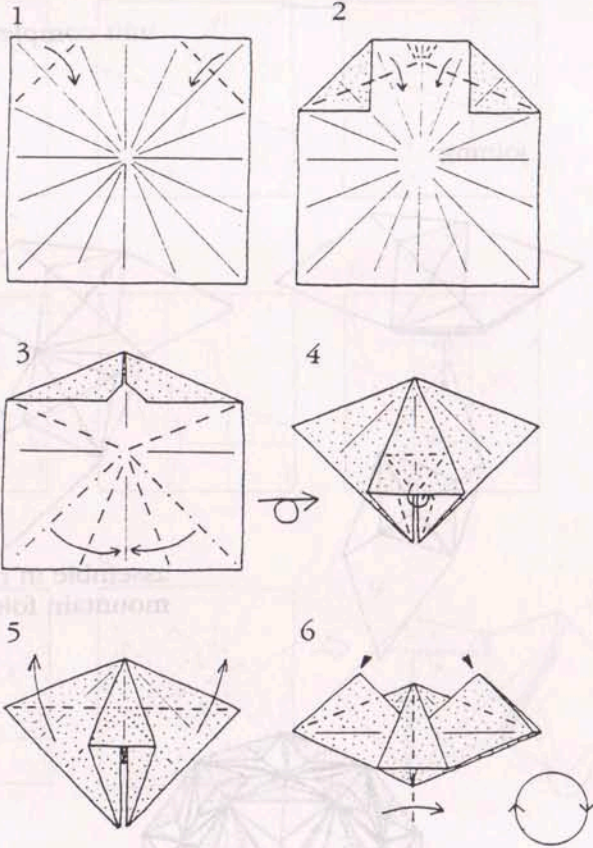
assemble in rings of 5,
mountain fold as shown.



30 unit dodecahedron

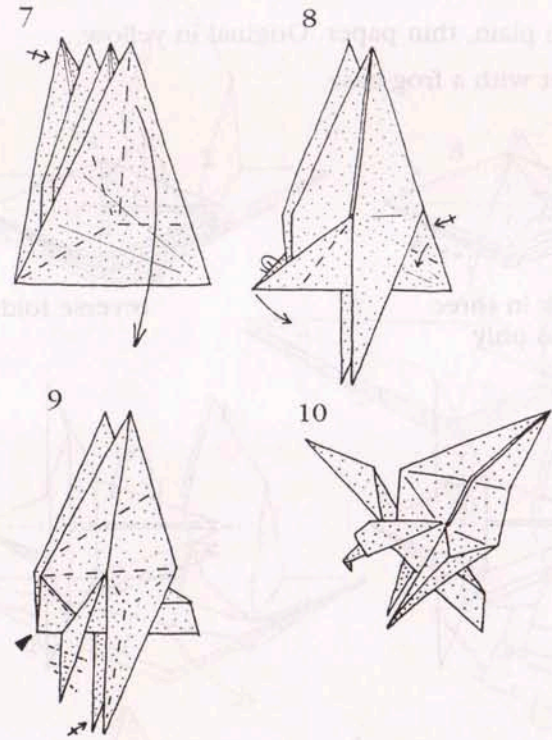
EAGLE

Use plain paper. Original in brown.



18

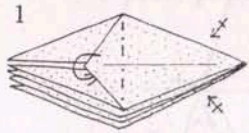
EAGLE 2



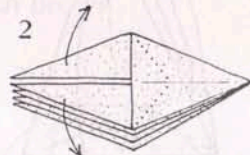
19

EAGLE 2

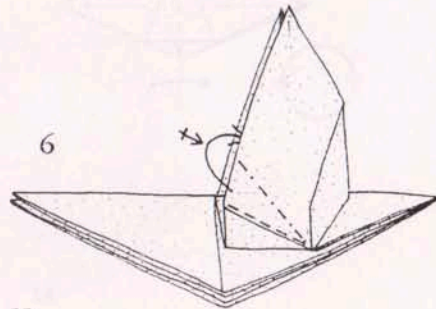
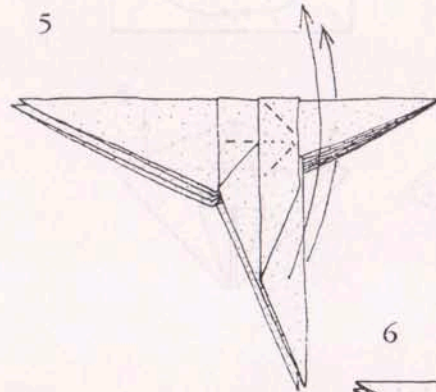
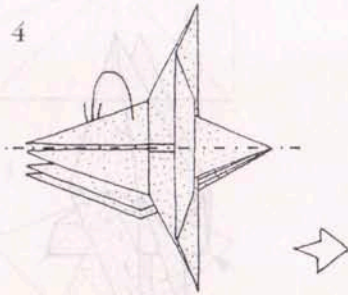
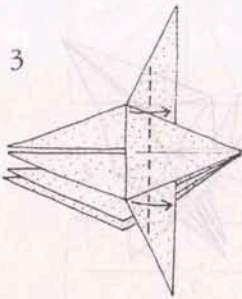
Use plain, thin paper. Original in yellow.
start with a frog base.



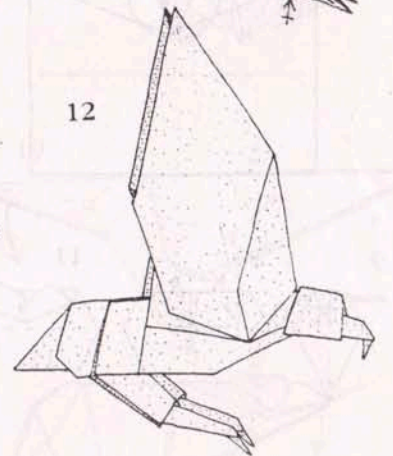
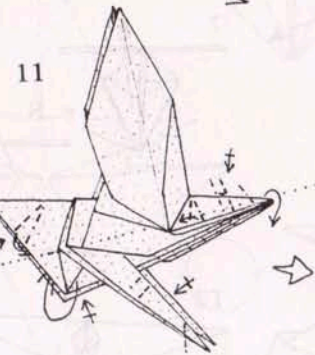
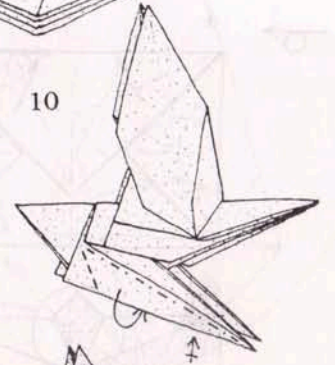
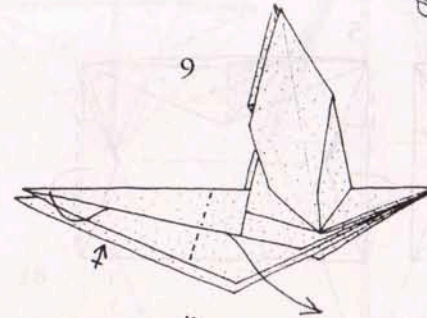
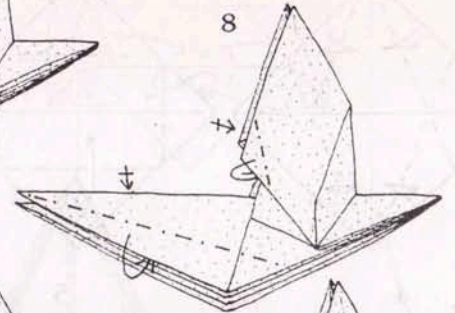
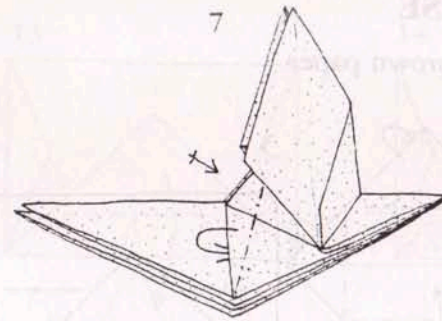
tuck in three flaps only.



reverse folds.



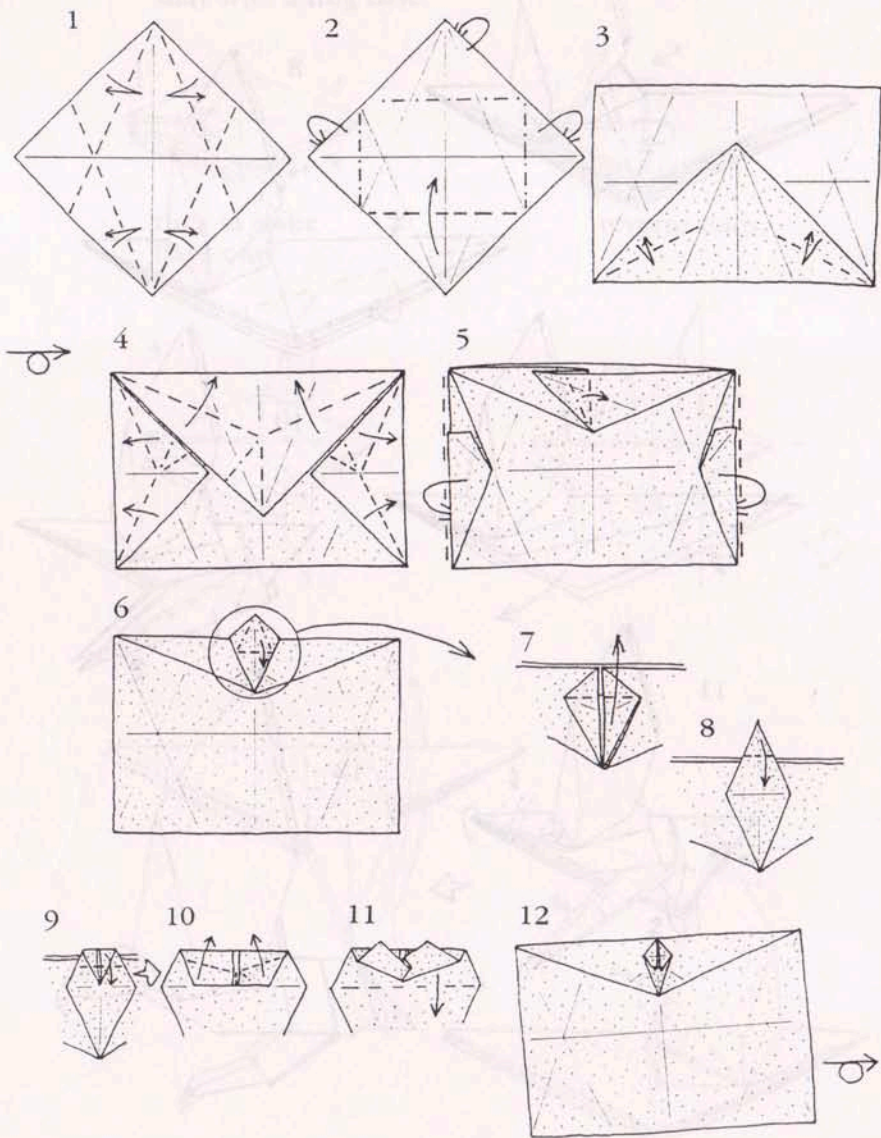
20



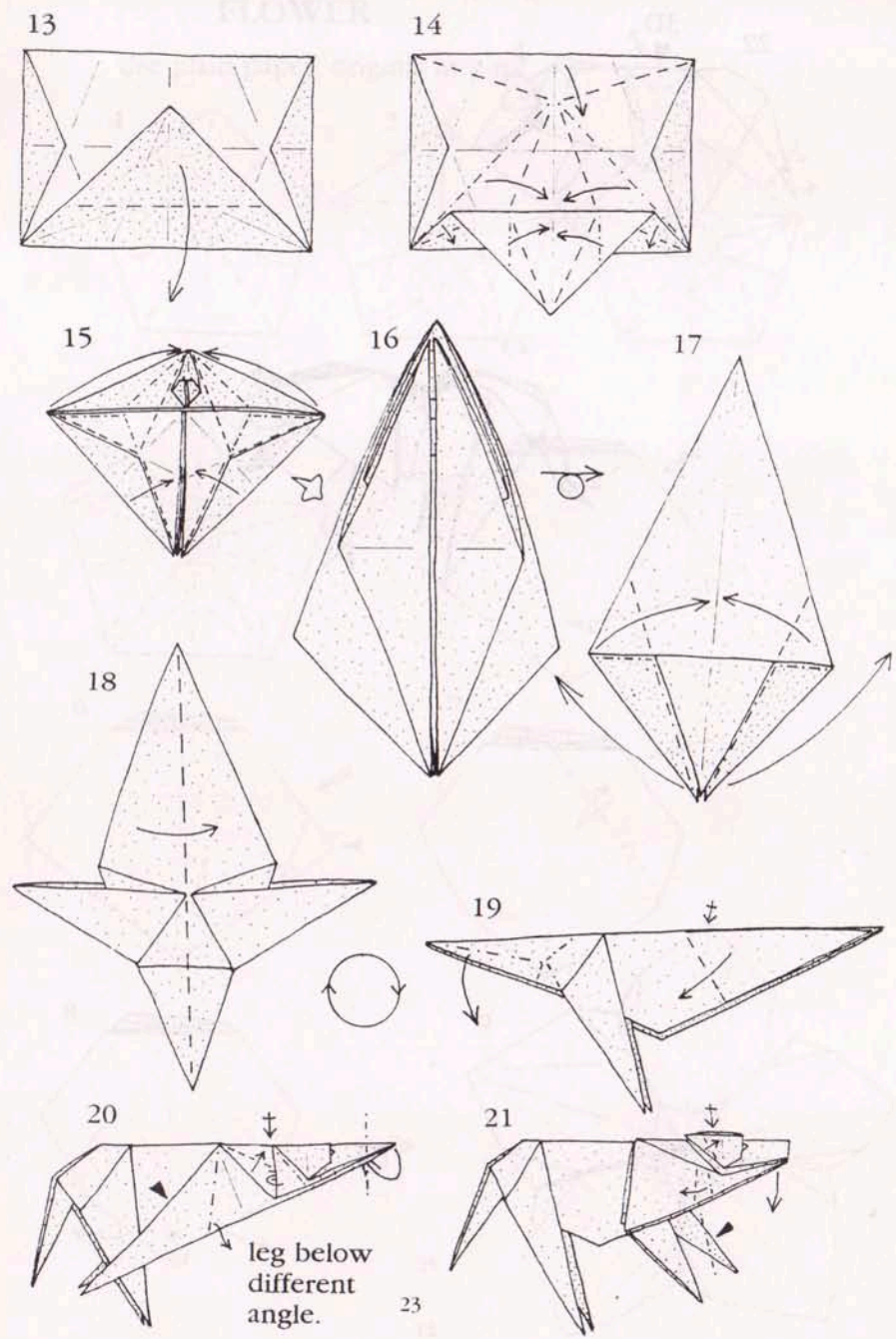
21

FARM HORSE

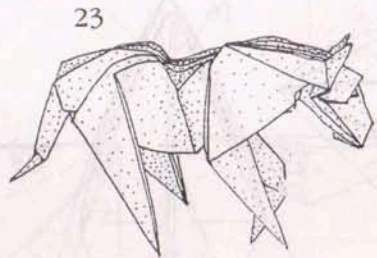
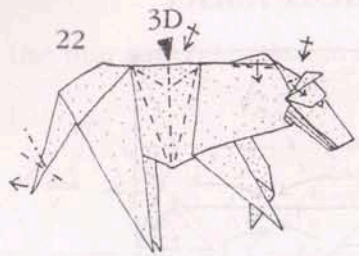
Use thin paper. Original in brown paper.



FLOWER

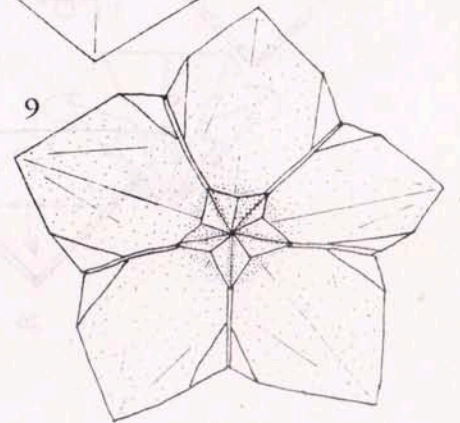
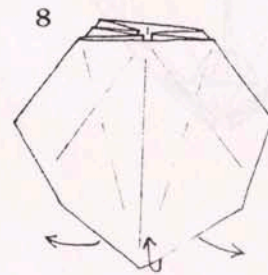
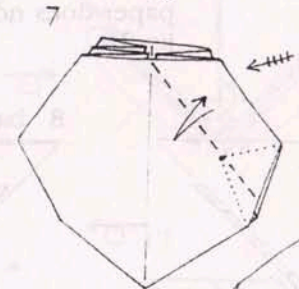
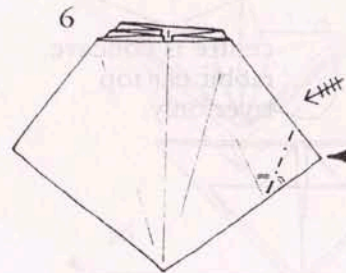
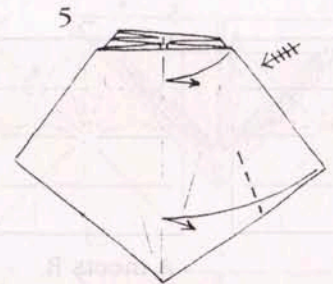
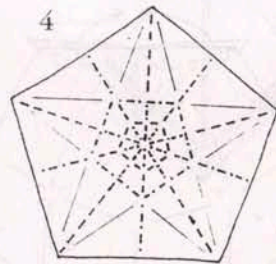
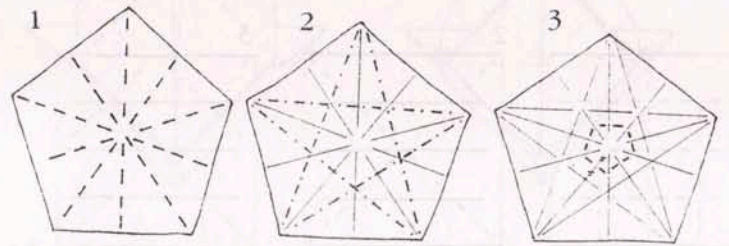


leg below
different
angle.



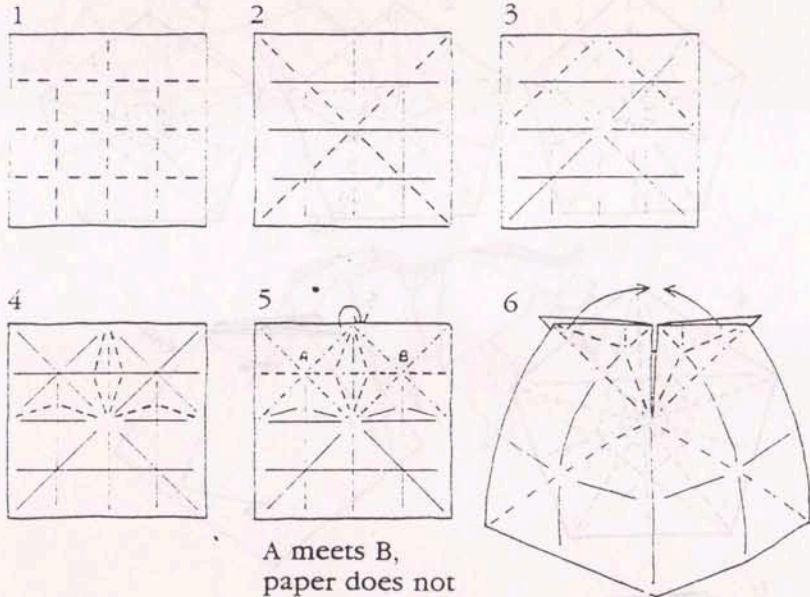
FLOWER

Use plain paper, original in pink



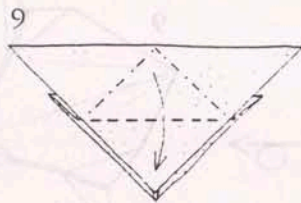
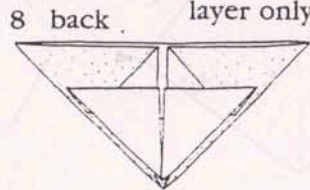
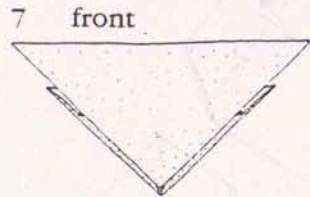
FLY

Use plain, thin paper. Original in black.

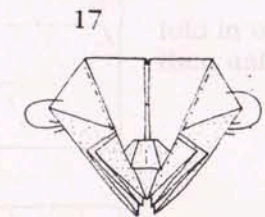
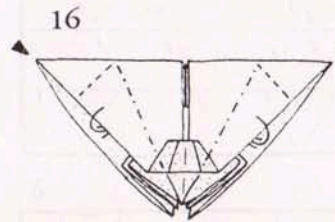
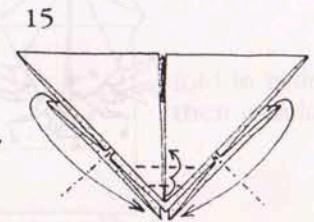
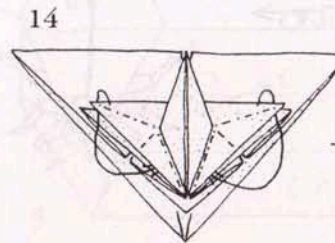
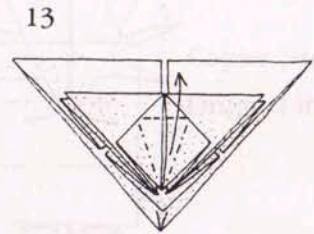
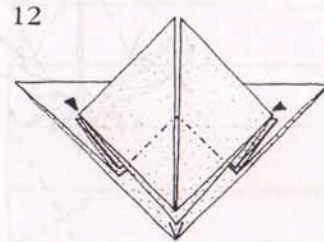
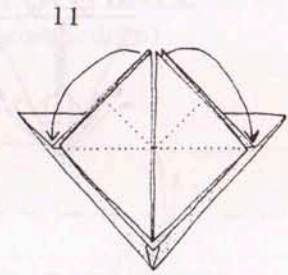
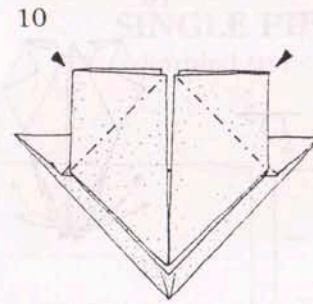


A meets B,
paper does not
lie flat.

centre is concave,
rabbit ear top
layer only.



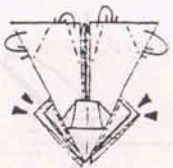
26



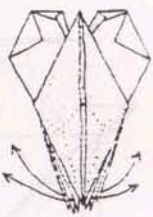
27

18

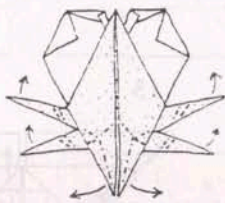
FLY



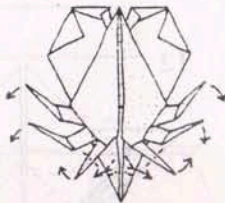
19



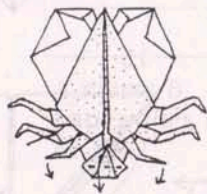
20



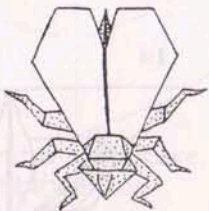
21



22



23

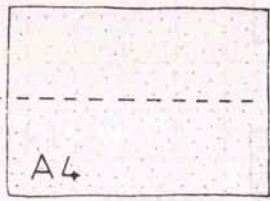


28

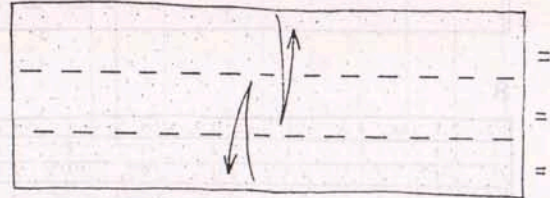
SINGLE PIECE FOOTBALL

(dimpled truncated icosahedron)

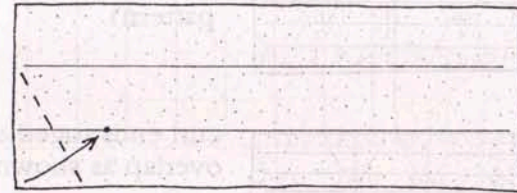
1



2

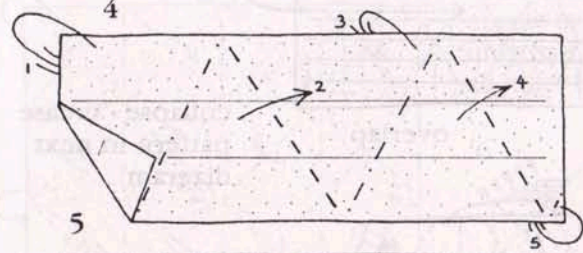


3



Copier paper is good.
Original in yellow.

4

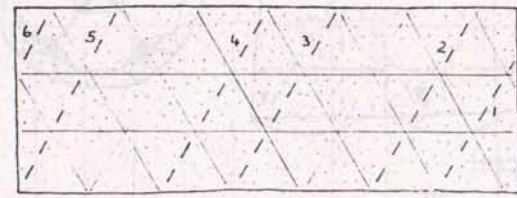


fold in order shown,
then unfold.



fold in order shown,
then unfold.

6

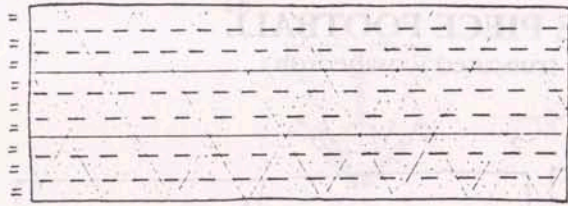


fold in order shown,
then unfold.

29

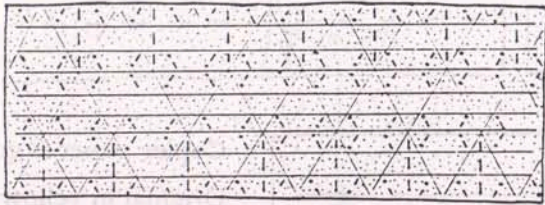
cut ends together

7



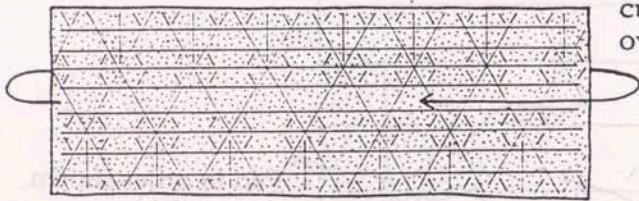
precrease.

8



precrease
(honeycomb
pattern).

9

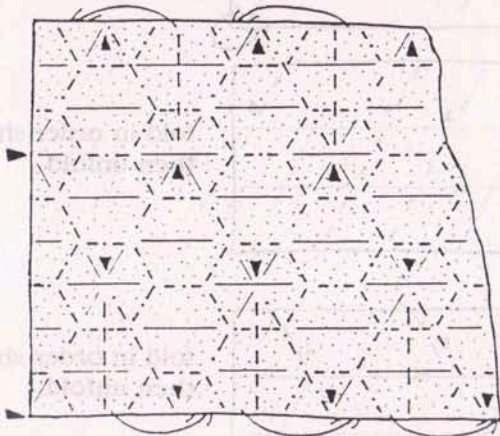


curl ends together,
overlap as shown.

overlap

collapse - crease
pattern in next
diagram

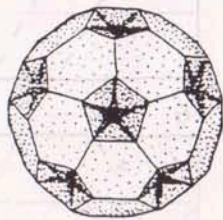
10



persevere!

30

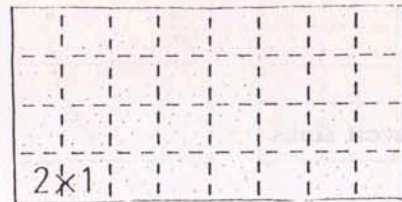
11



GEOMETRIC FORM

Use strong paper. Original in harmony.

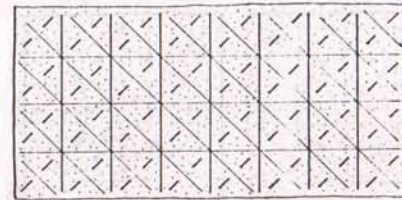
1



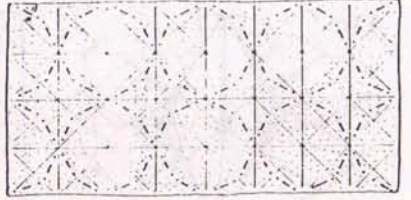
2



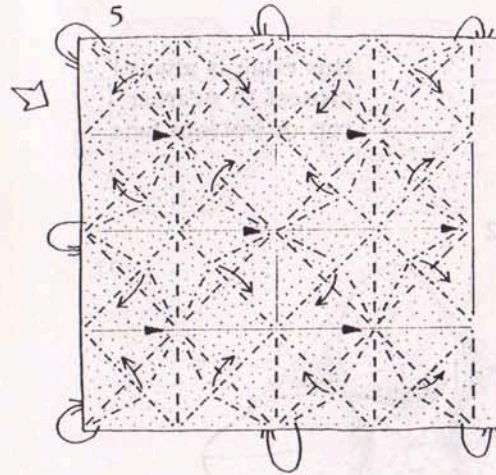
3



4

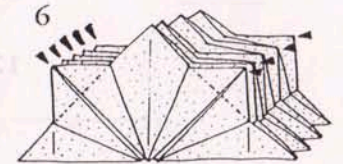


5

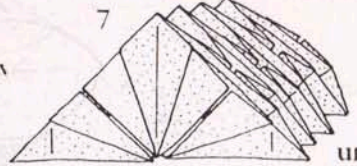


collapse following
crease pattern in step 5.
only half paper shown,
all must be folded.

6

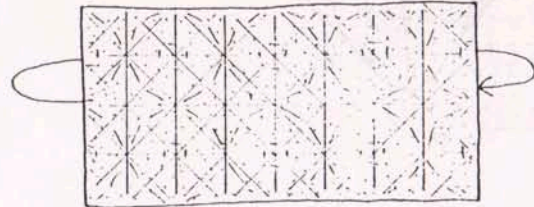


7



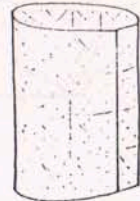
unfold.

8



curl ends together

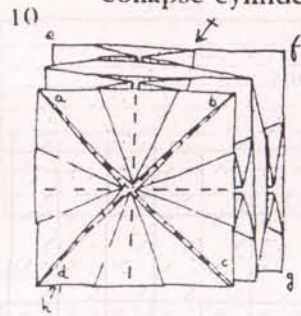
9



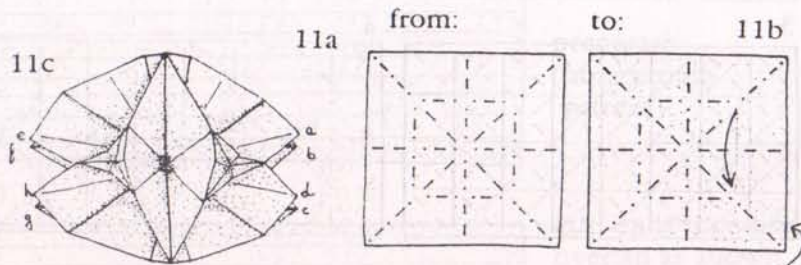
fix into
cylinder
(glue).
N.B. no
overlap.

31

collapse cylinder following crease pattern in step 5.



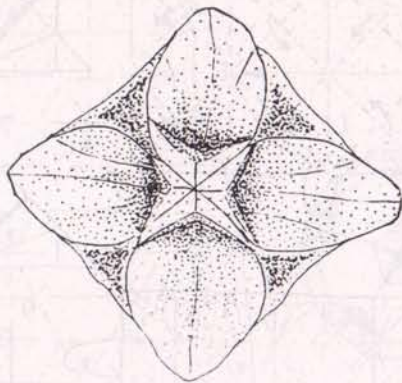
convert sinks



a,b,c,d meet.
e,f,g,h meet.
glue them together for
final shape.

this edge is always
closest to nearest
top or bottom face.

12

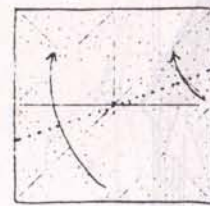


32

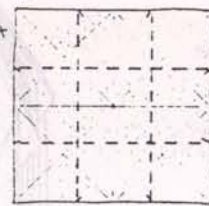
GEMINI

Use stiffish, thin paper. Original in green.

1 pinches.



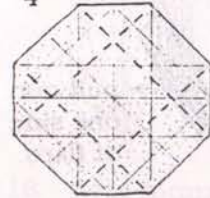
2



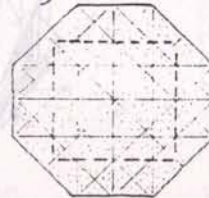
3



4



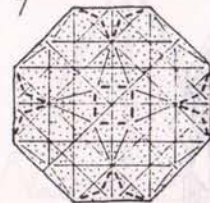
5



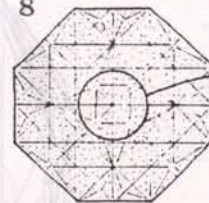
6



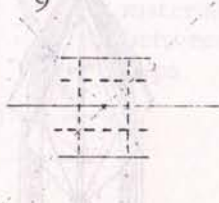
7



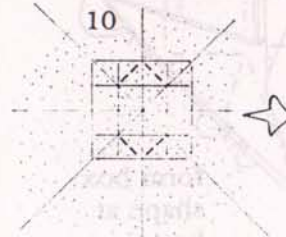
8



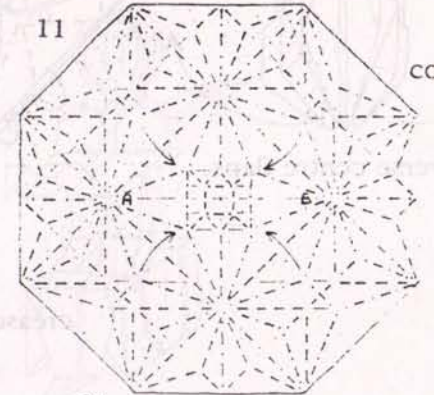
9



10



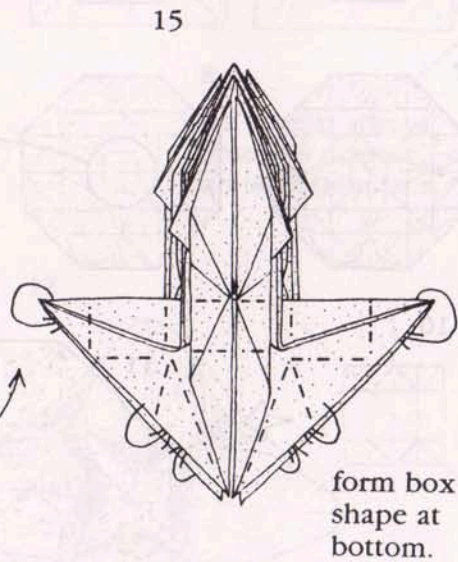
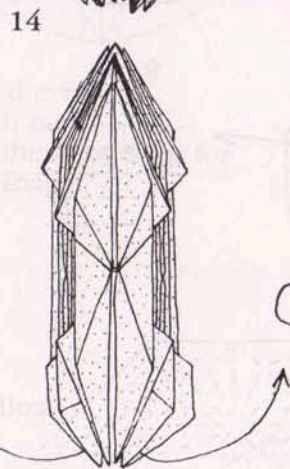
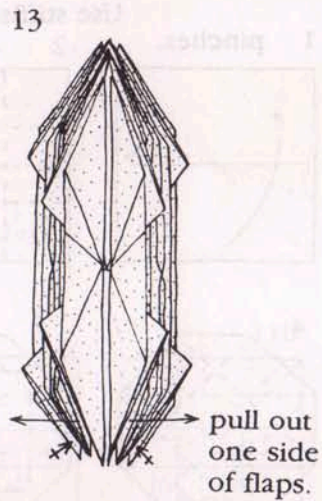
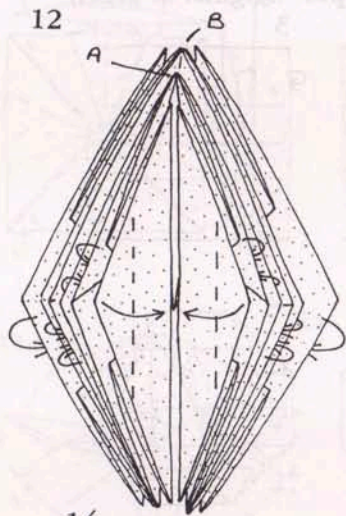
11



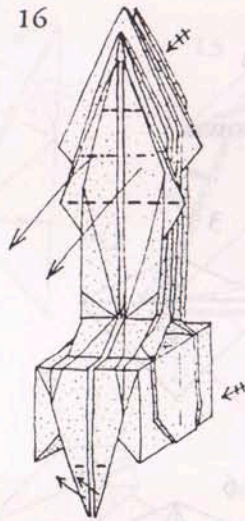
collapse.

A meets B.

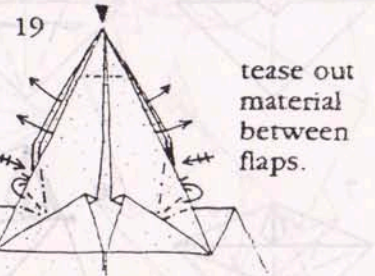
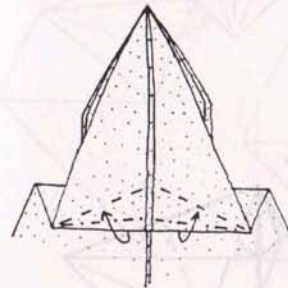
33



creases repeat at rear.

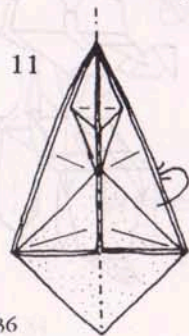
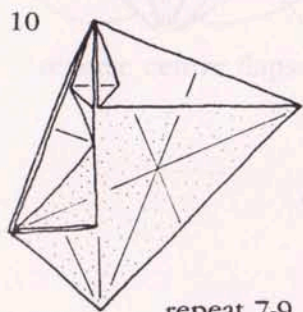
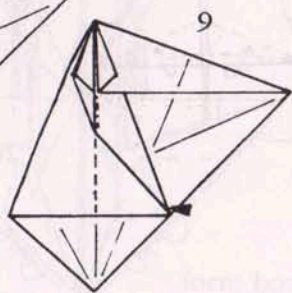
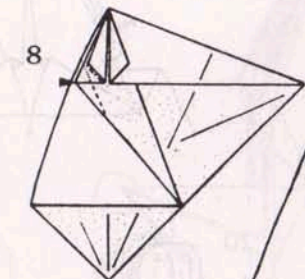
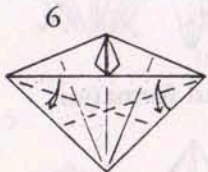
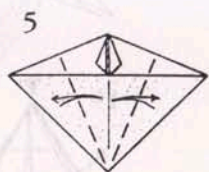
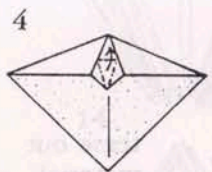
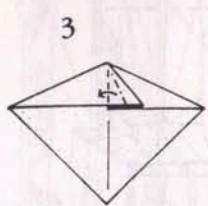
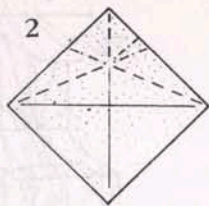
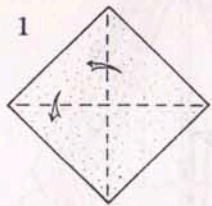


18 head formation.



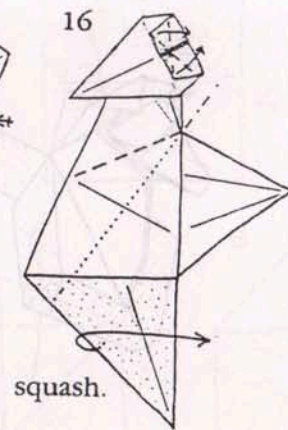
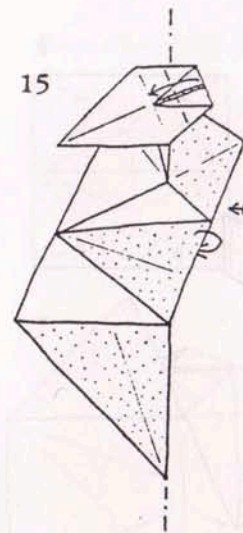
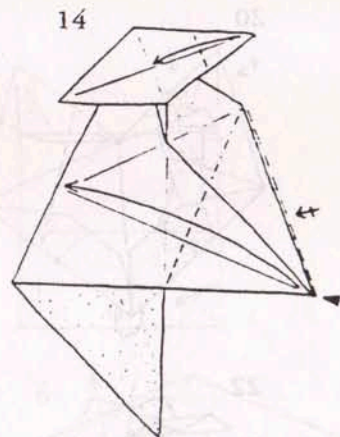
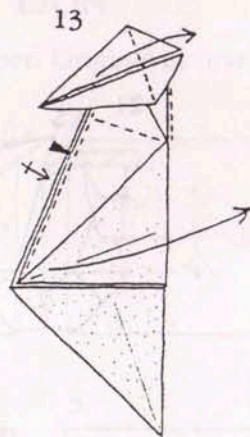
HORSE HEAD (with halter)

Use plain, thin paper. Original in light brown.

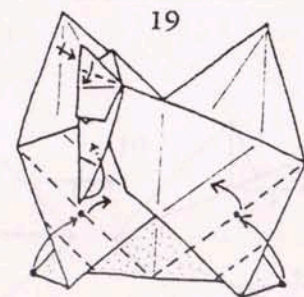
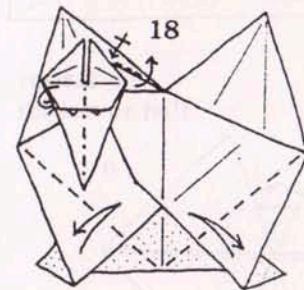
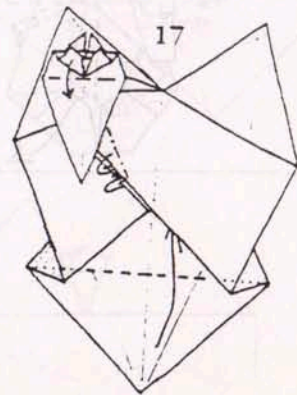


repeat 7-9
on r.h.s.

36

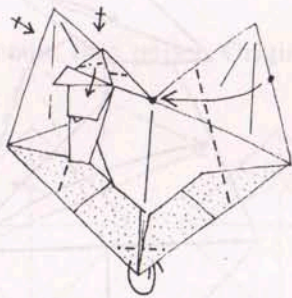


squash.

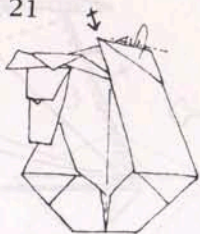


37

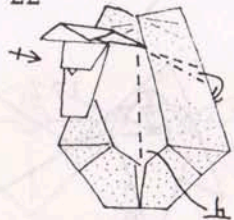
20



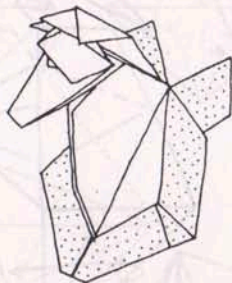
21



22



23

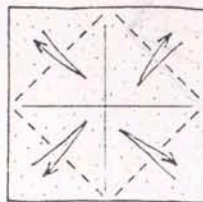


38

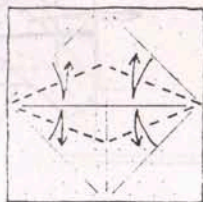
LION

Use thin paper. Original in orange.

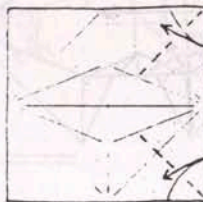
1



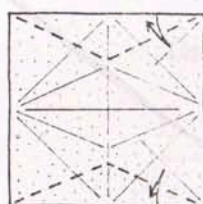
2



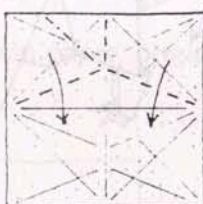
3



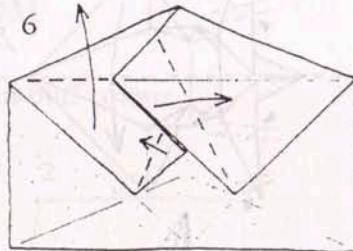
4



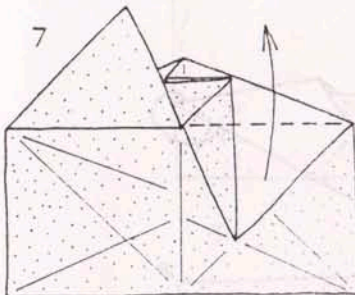
5



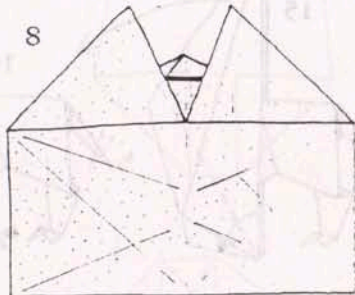
6



7

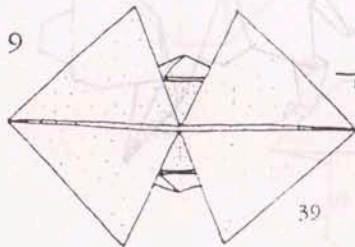


8

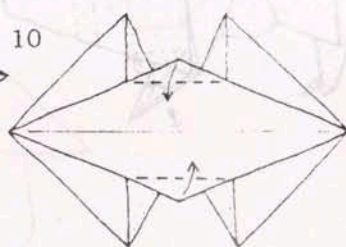


repeat 5-8
on lower half.

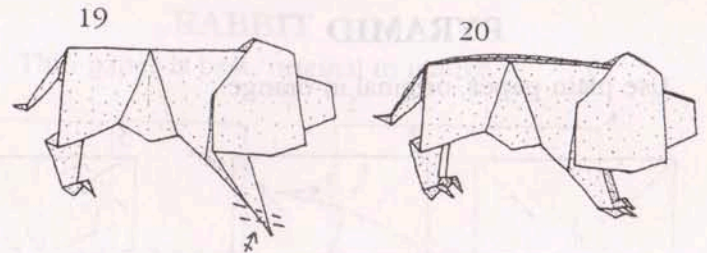
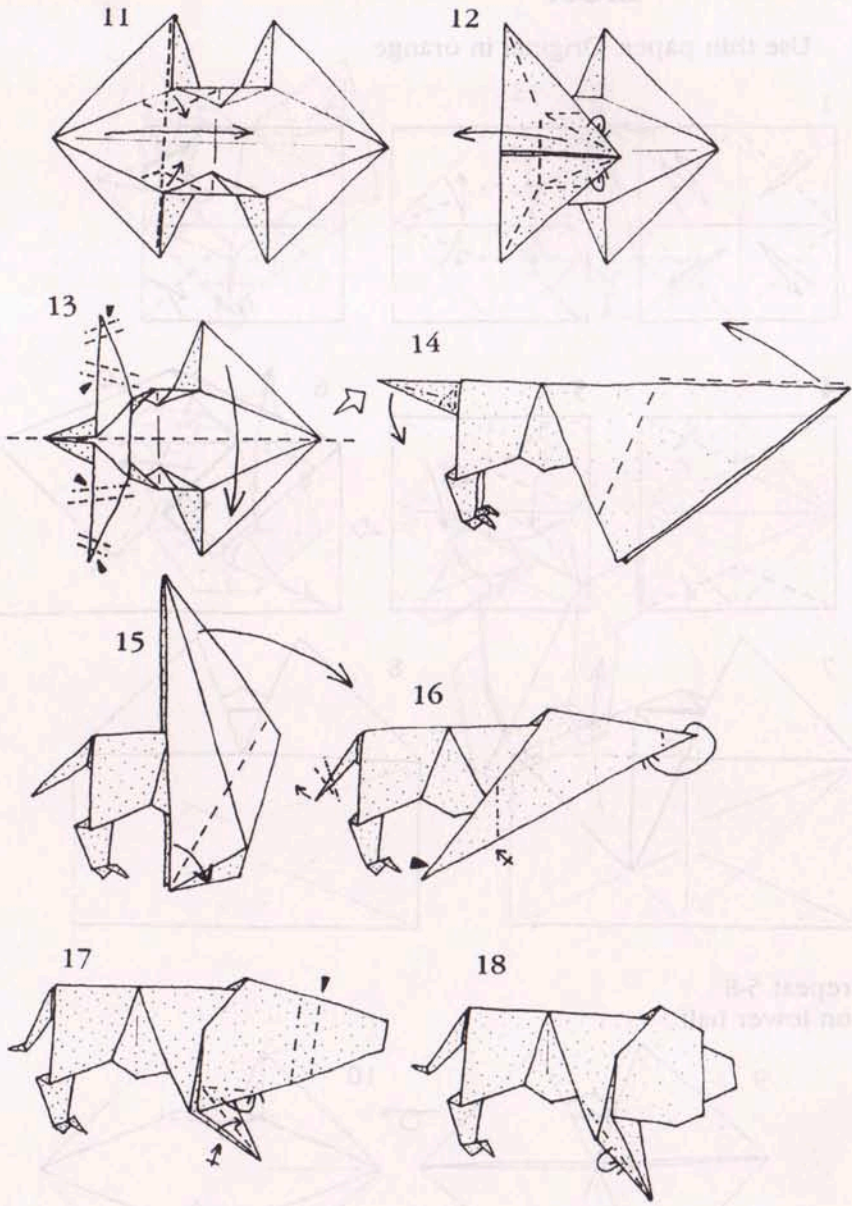
9



10

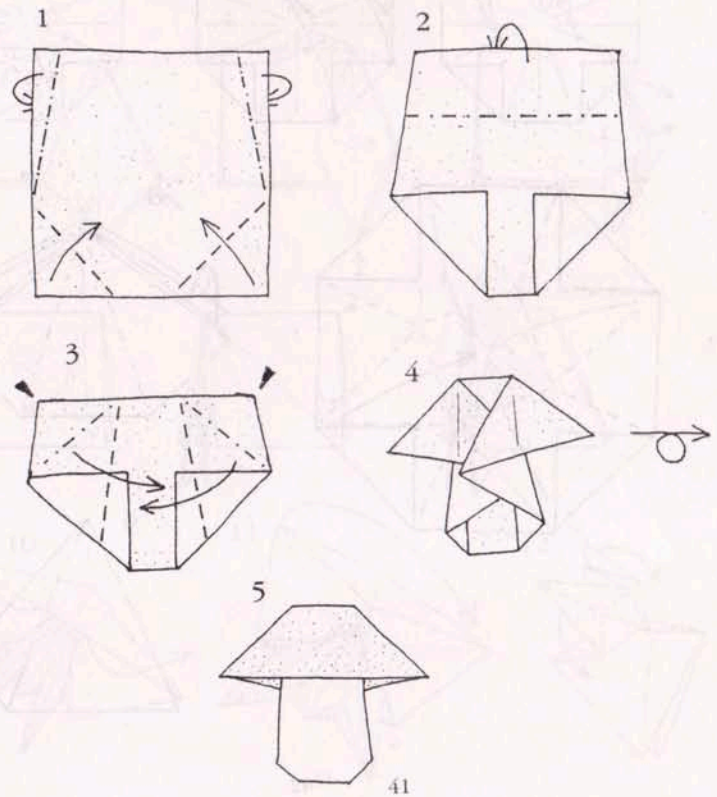


39



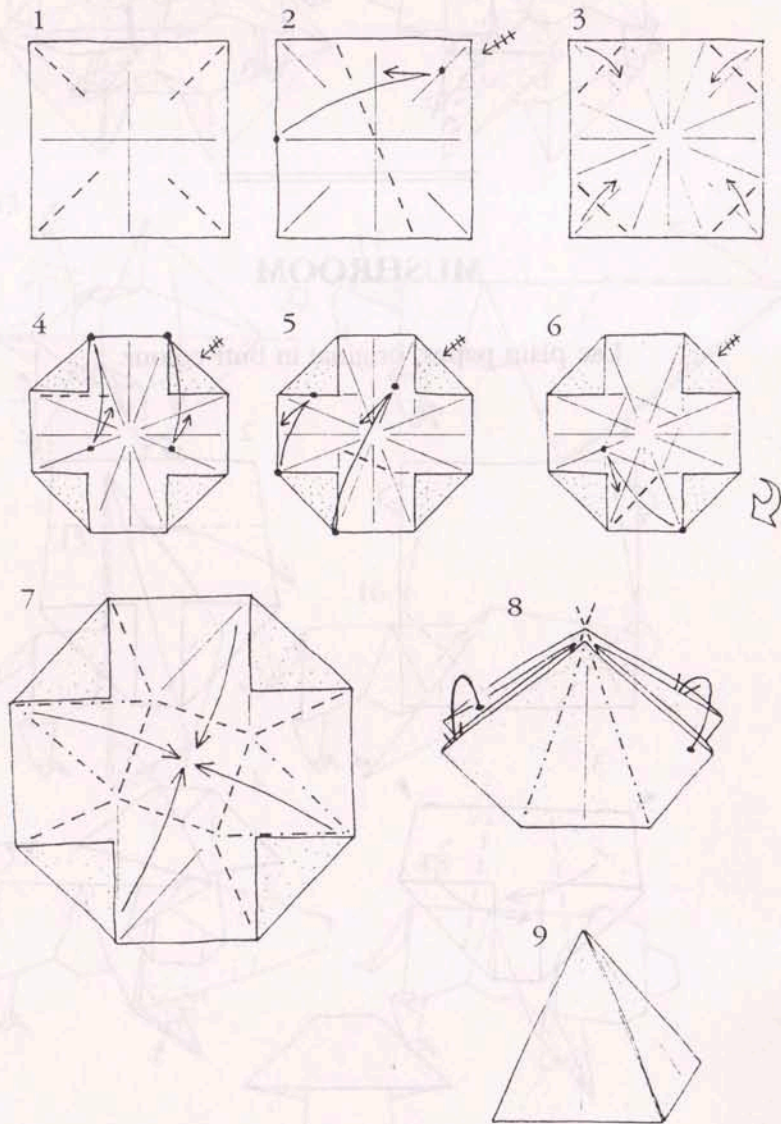
MUSHROOM

Use plain paper, original in buff colour.



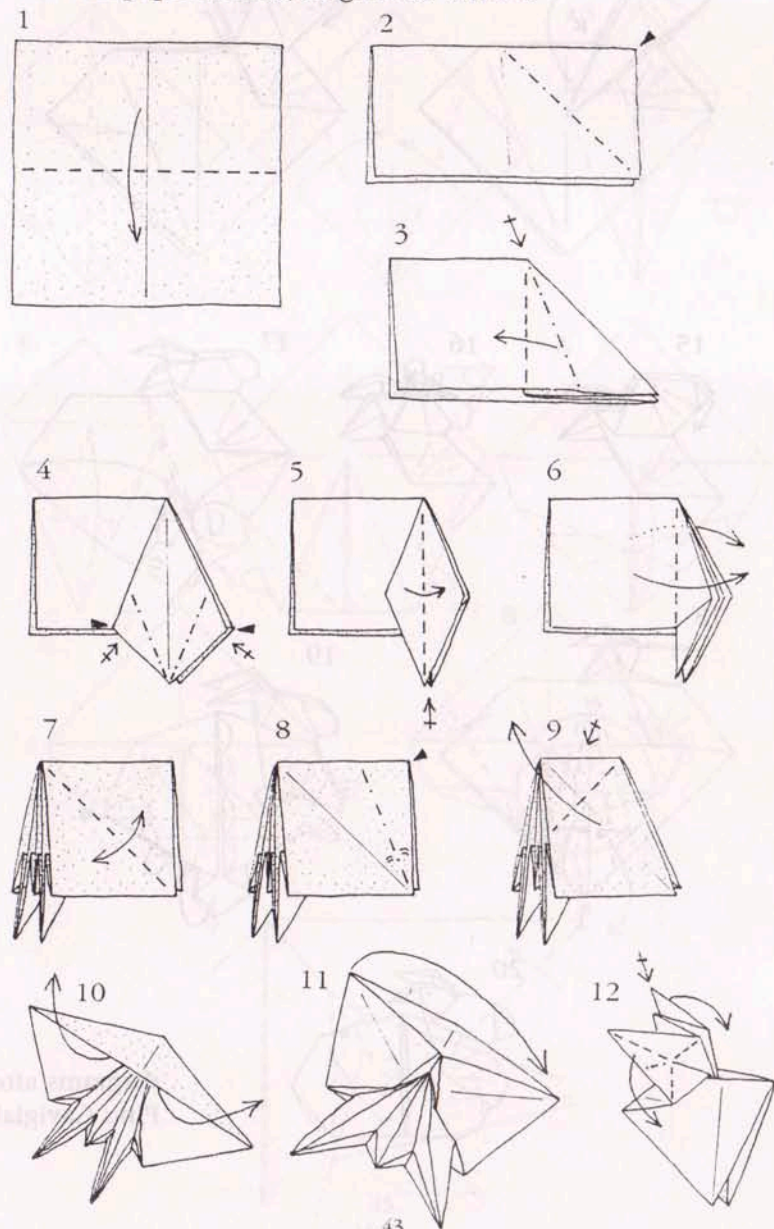
PYRAMID

Use plain paper, original in orange.

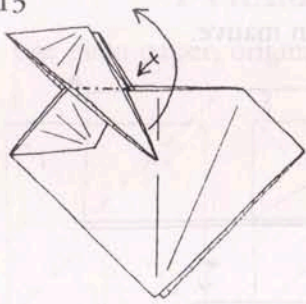


RABBIT

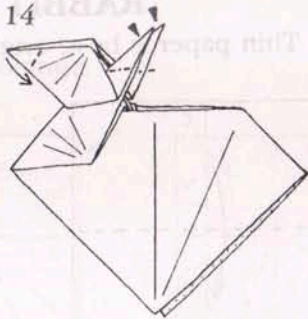
Thin paper is best, original in mauve.



13



14



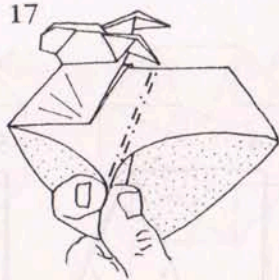
15



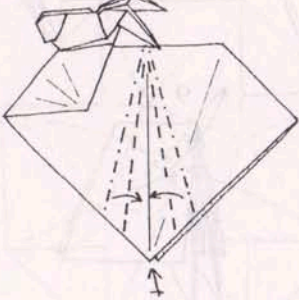
16



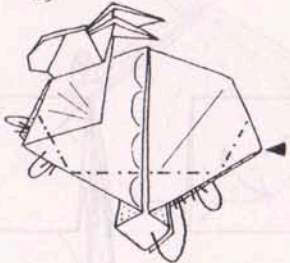
17



18



19



20

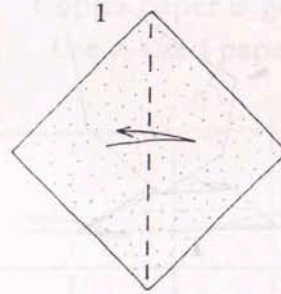


diagrams after
Pino Cavigliani

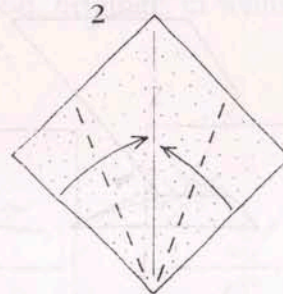
SAILBOARD

Use plain, thin, strong paper.

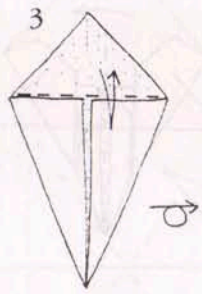
1



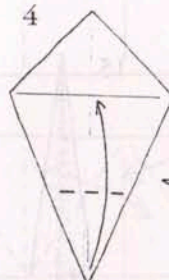
2



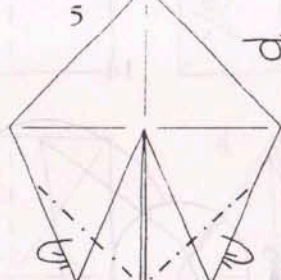
3



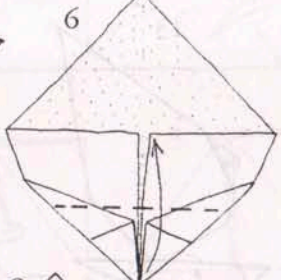
4



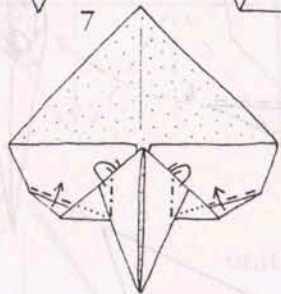
5



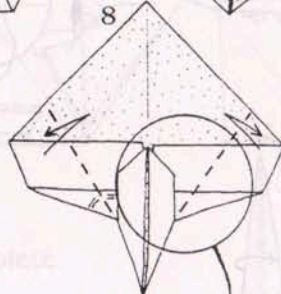
6



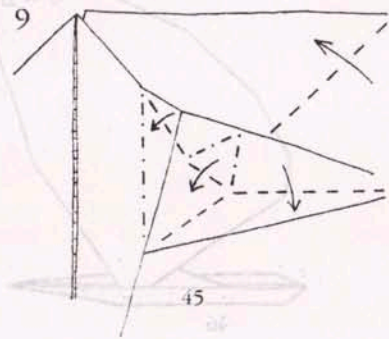
7

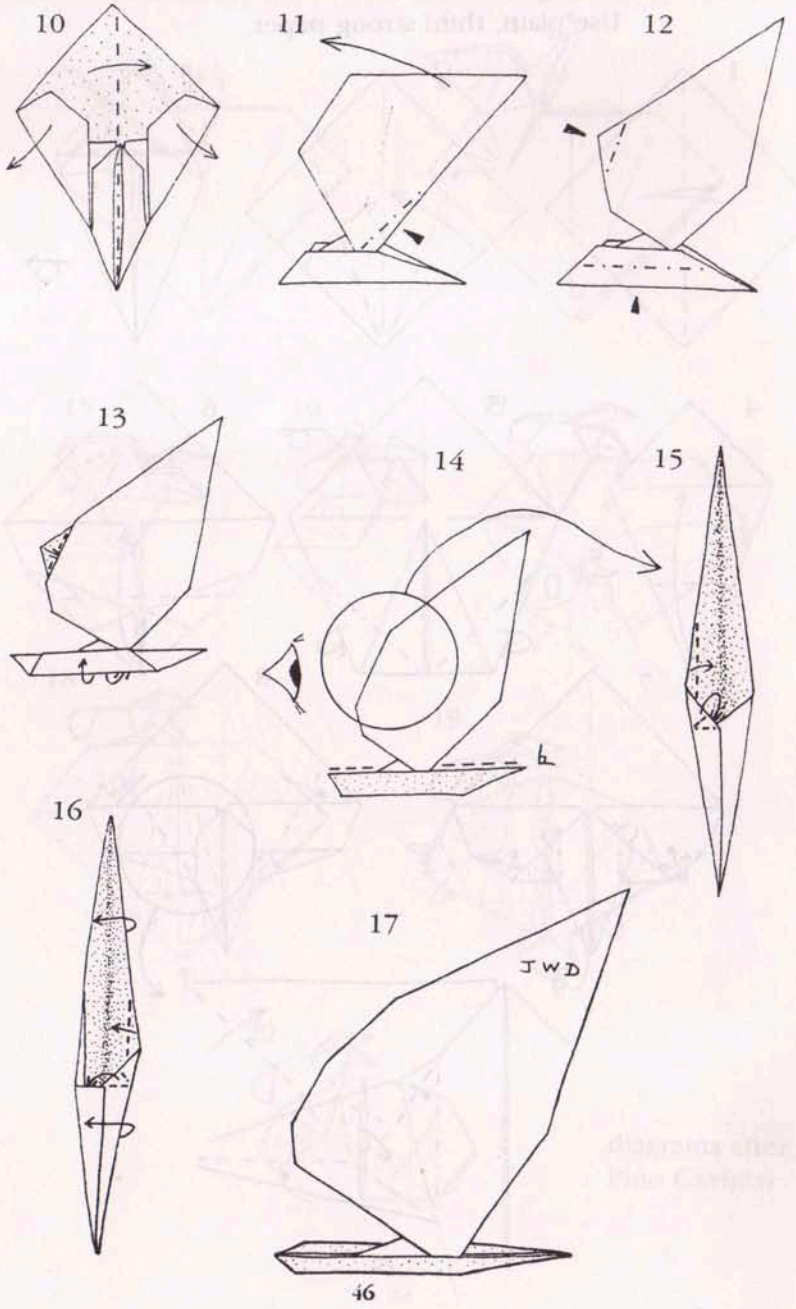


8



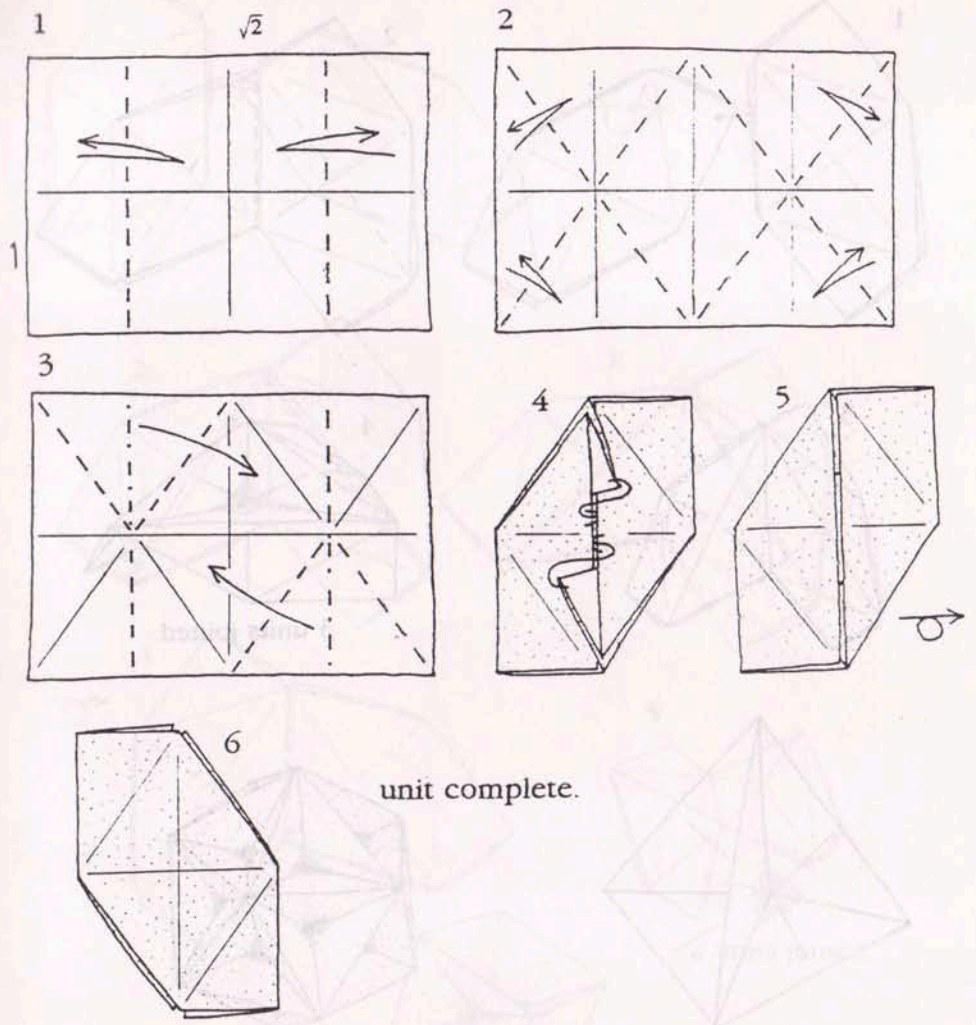
9





DIMPLED GEOMETRIC SOLIDS UNIT

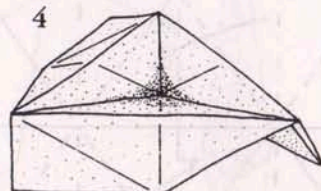
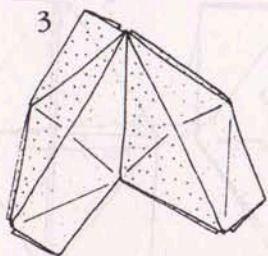
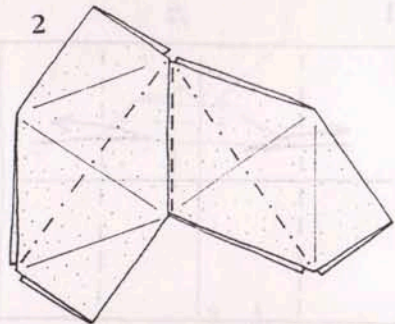
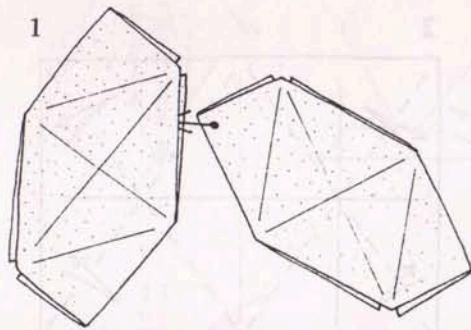
Copier paper is good, originals in white.
Use A-sized paper.



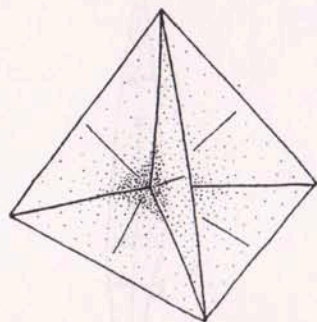
unit complete.

Assembly.

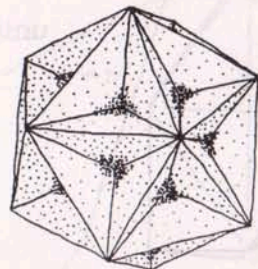
method 1.



3 units joined.

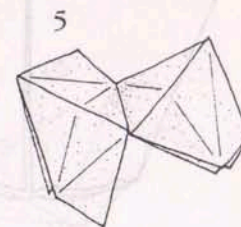
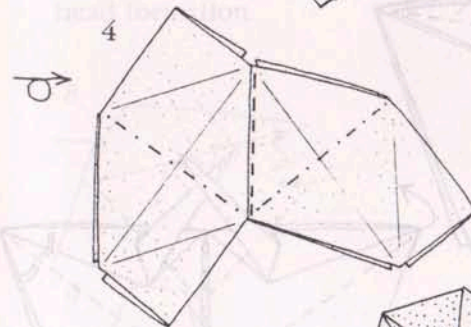
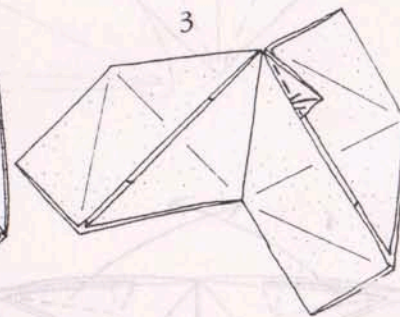
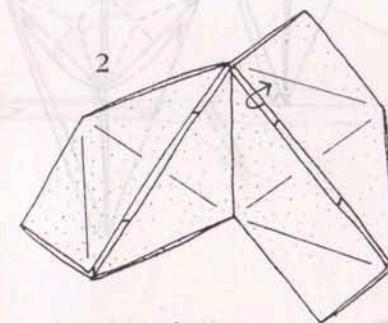
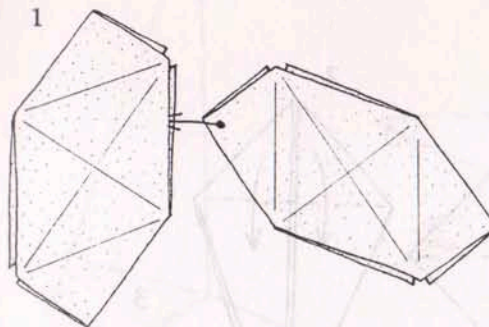


6 unit dimpled tetrahedron

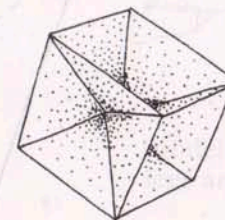


30 unit great dodecahedron.

method 2.



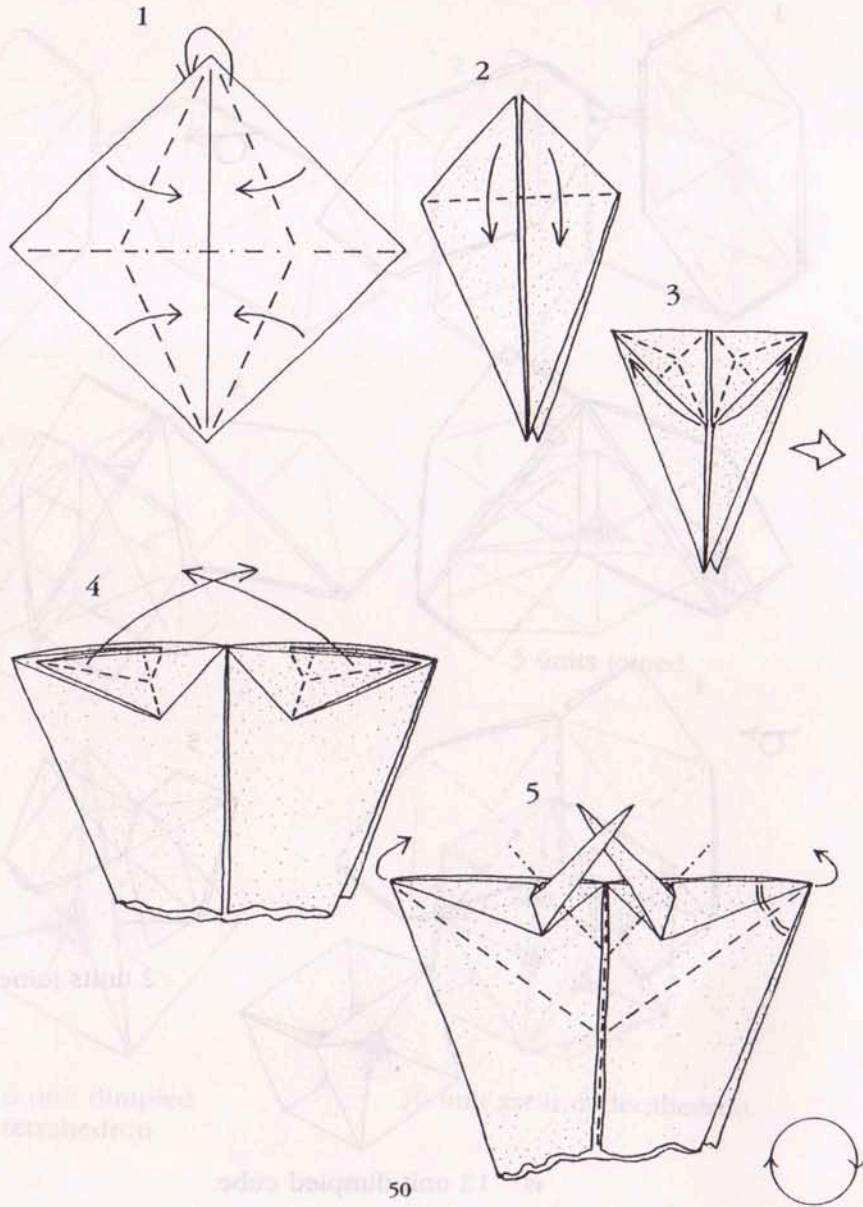
2 units joined.



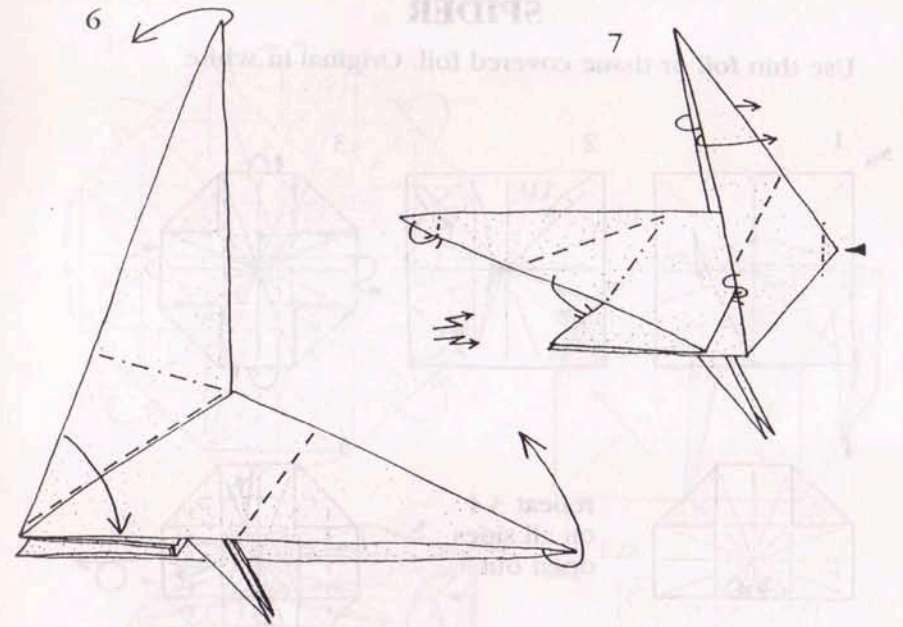
49 12 unit dimpled cube.

SPARROW

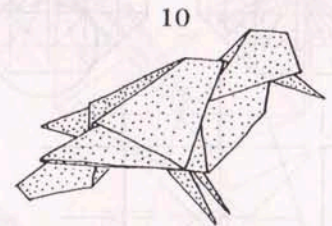
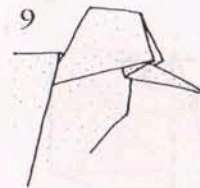
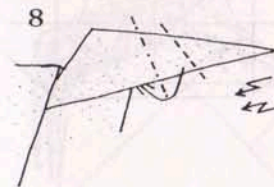
Use plain paper. Original in orange.



SPIDER



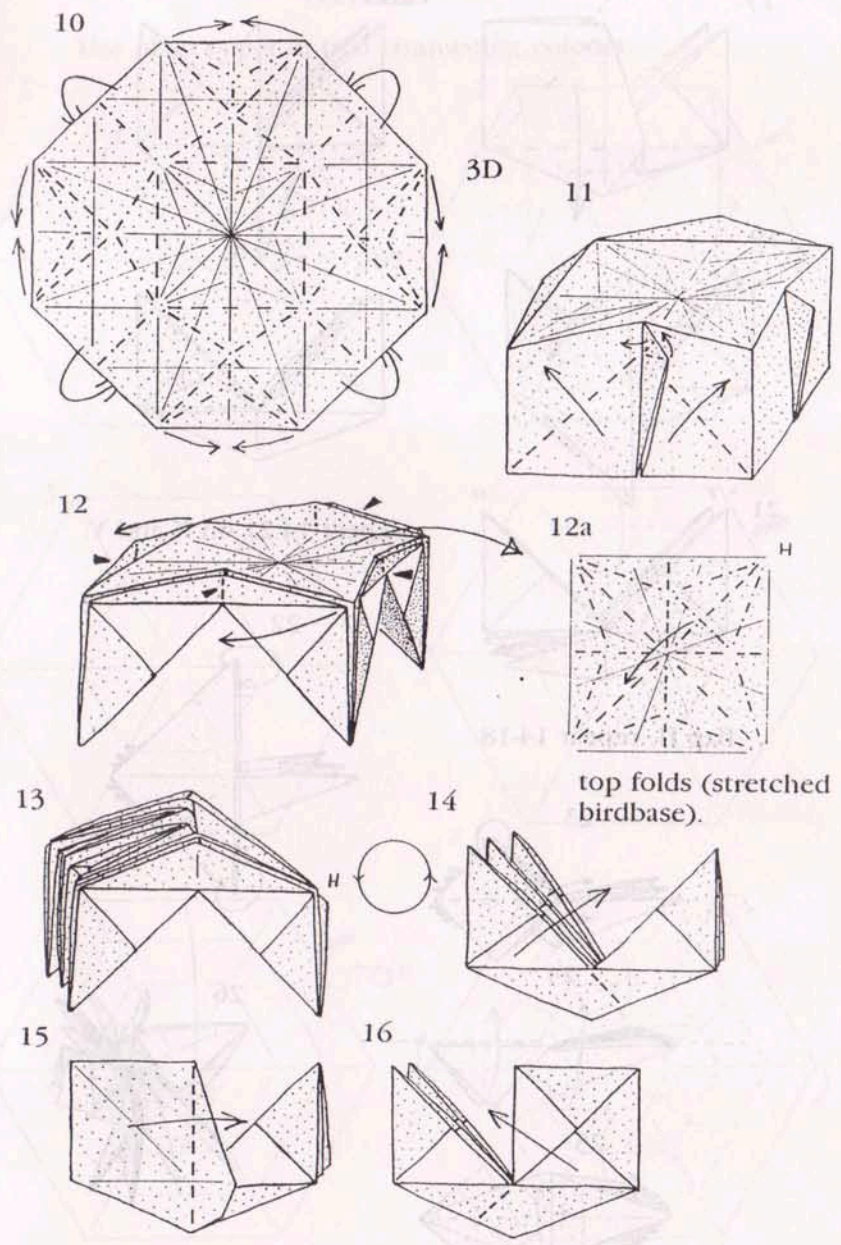
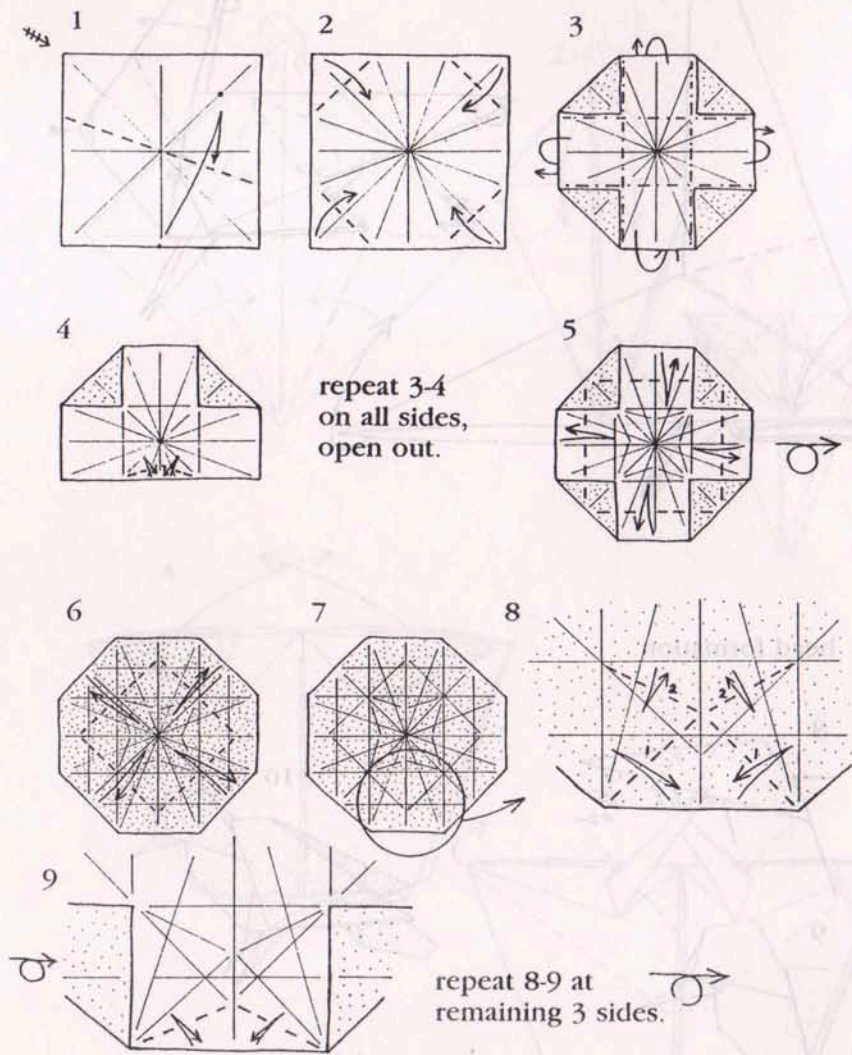
head formation.



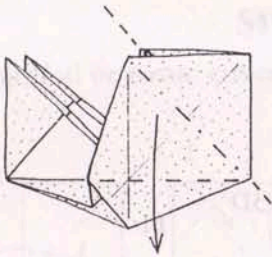
model stands on legs and tail.

SPIDER

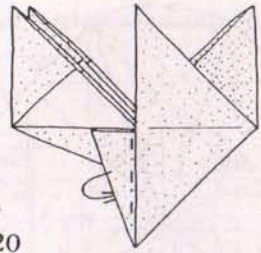
Use thin foil or tissue covered foil. Original in white.



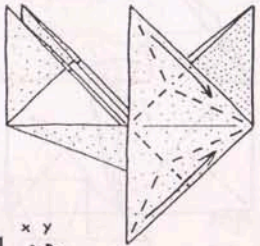
17



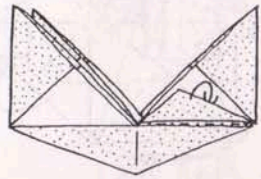
18



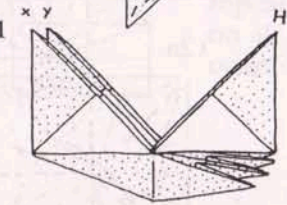
19



20

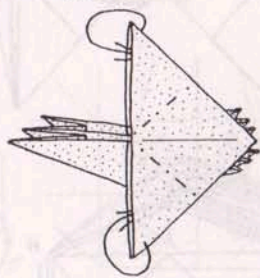


21



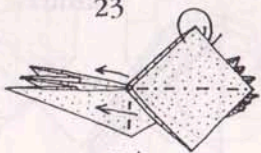
repeat 14-21 on X and Y.

22

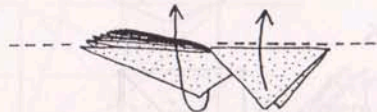


flap H, repeat 14-18.

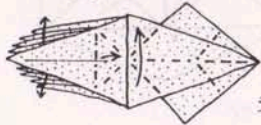
23



24



25



54

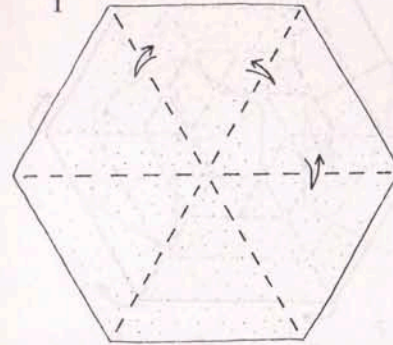
26



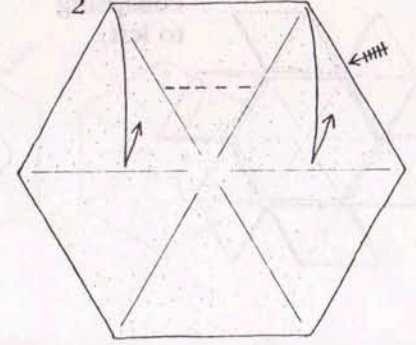
STAND

Use plain paper in two contrasting colours.

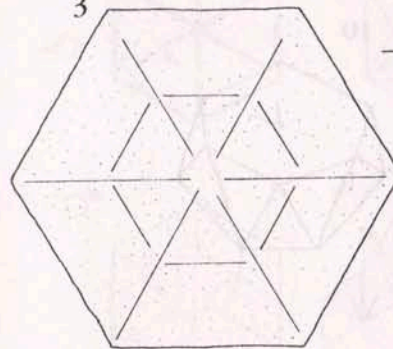
1



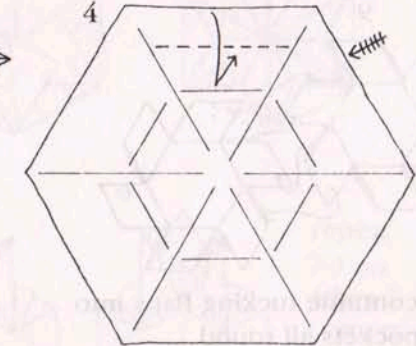
2



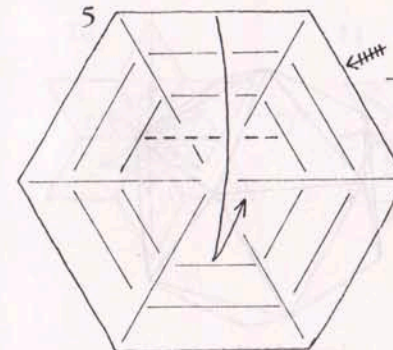
3



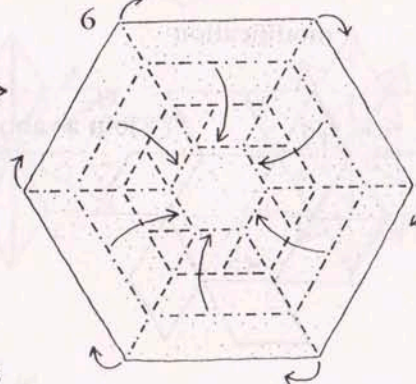
4



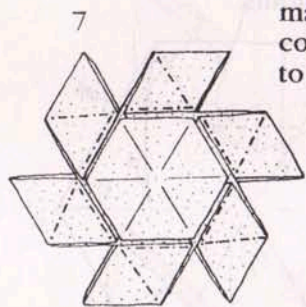
5



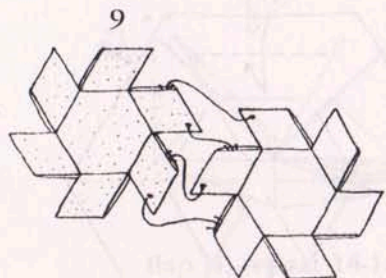
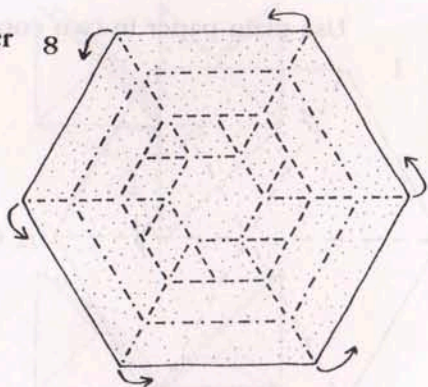
6



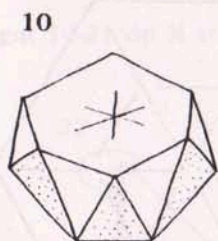
55



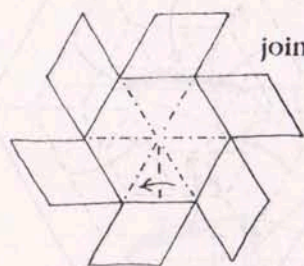
make another collapsing to left



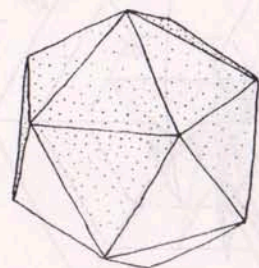
continue tucking flaps into pockets all round



modification



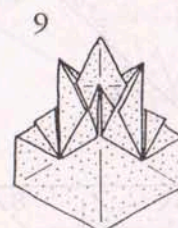
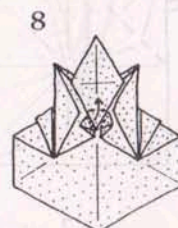
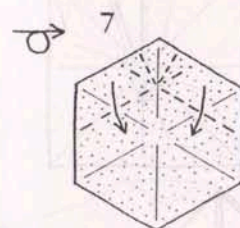
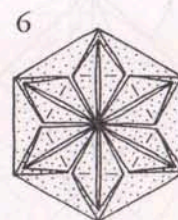
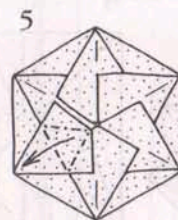
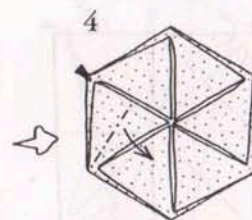
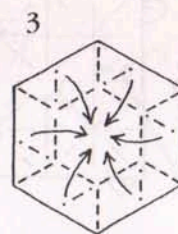
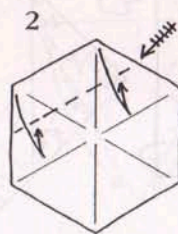
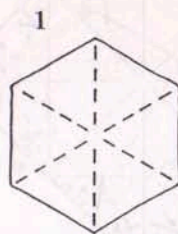
join as above



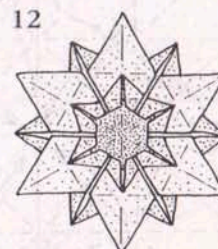
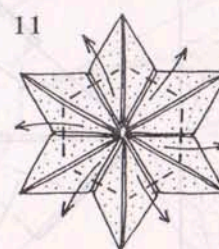
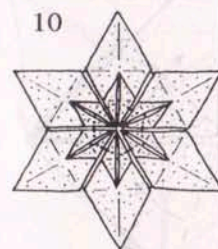
icosahedron

CHRISTMAS STAR

Use thin, plain paper.

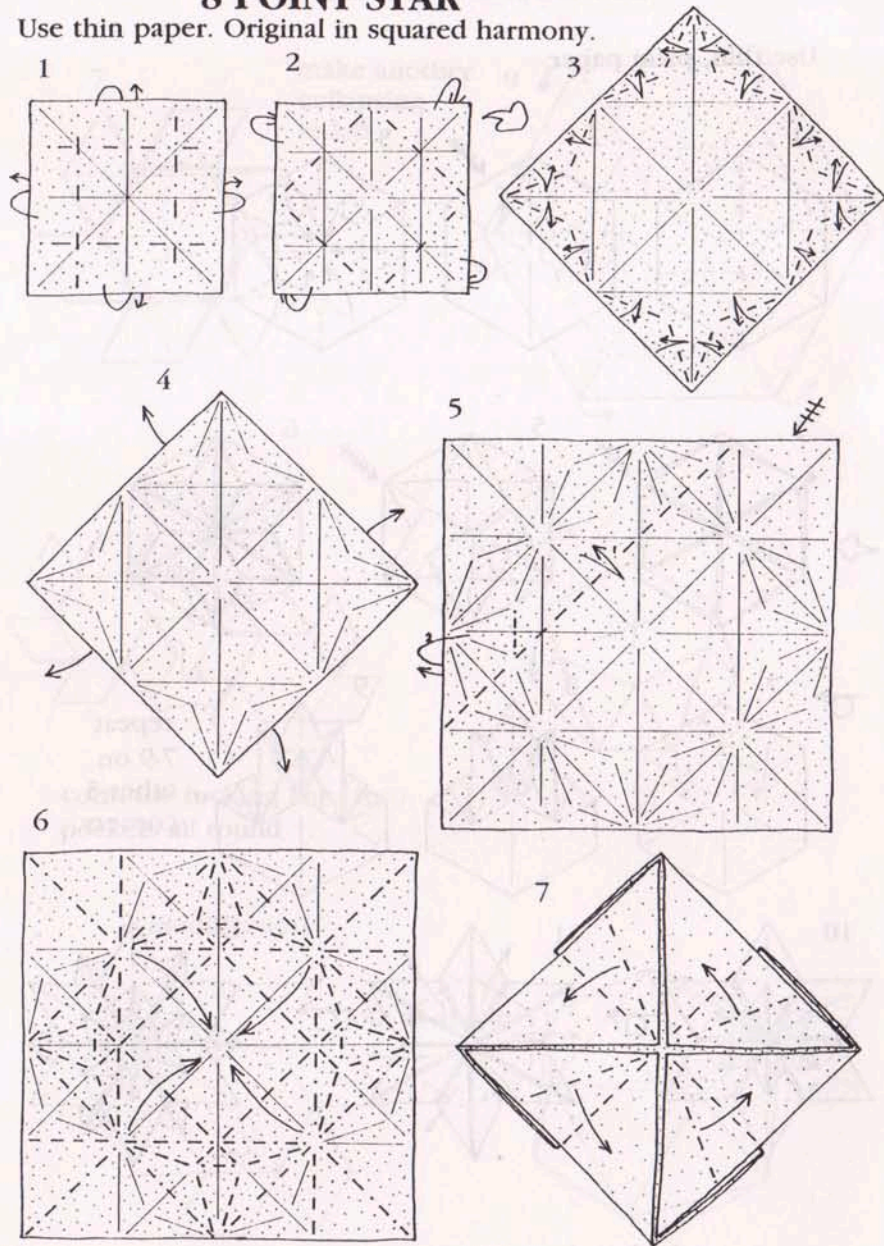


repeat 7-9 on other 5 corners.



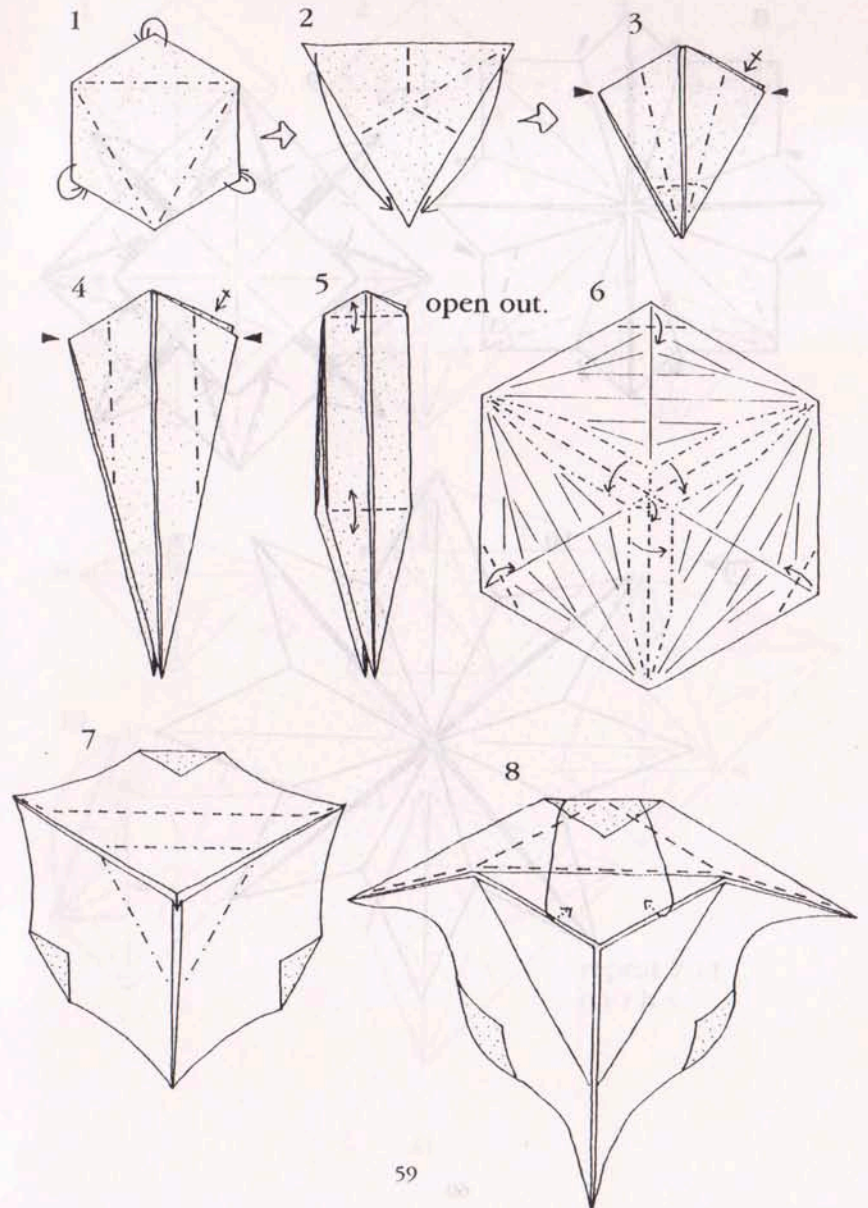
8 POINT STAR

Use thin paper. Original in squared harmony.

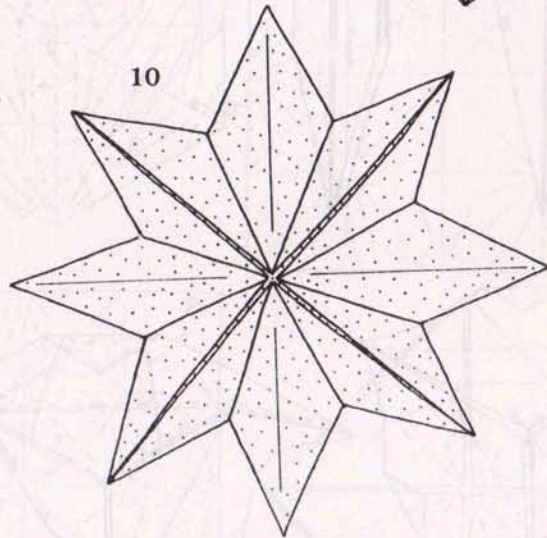
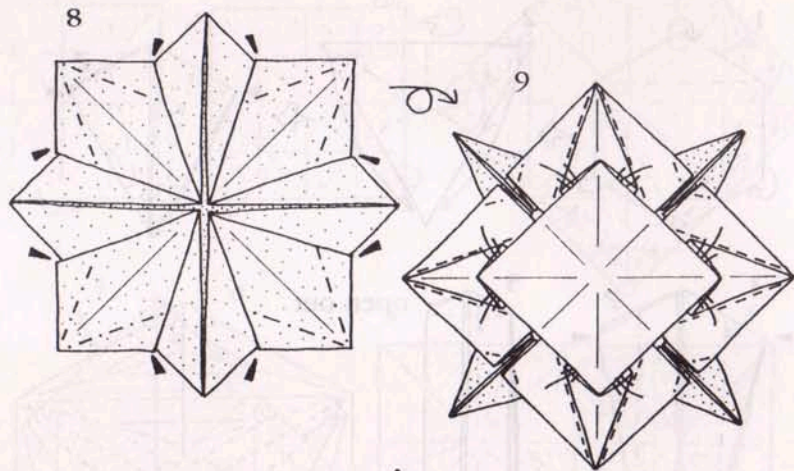


THREE COMPARTMENT TRAY

Use plain, slightly stiff paper.

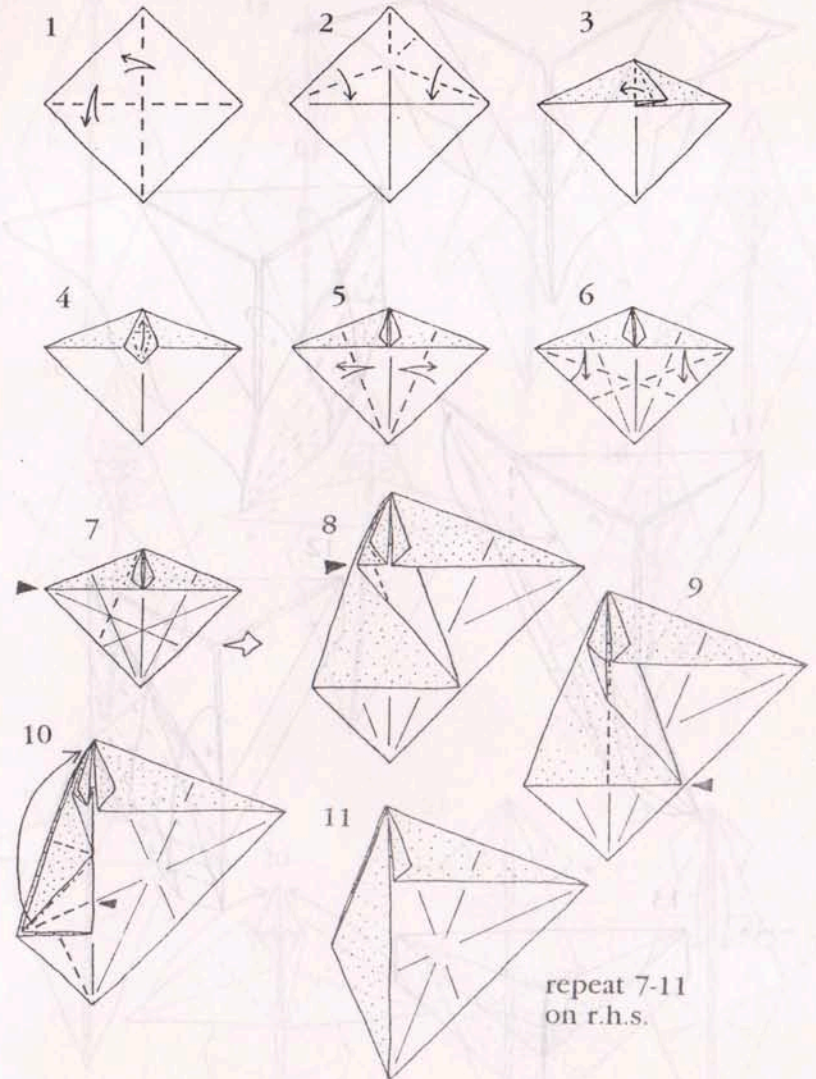


The paper should be stiff paper.



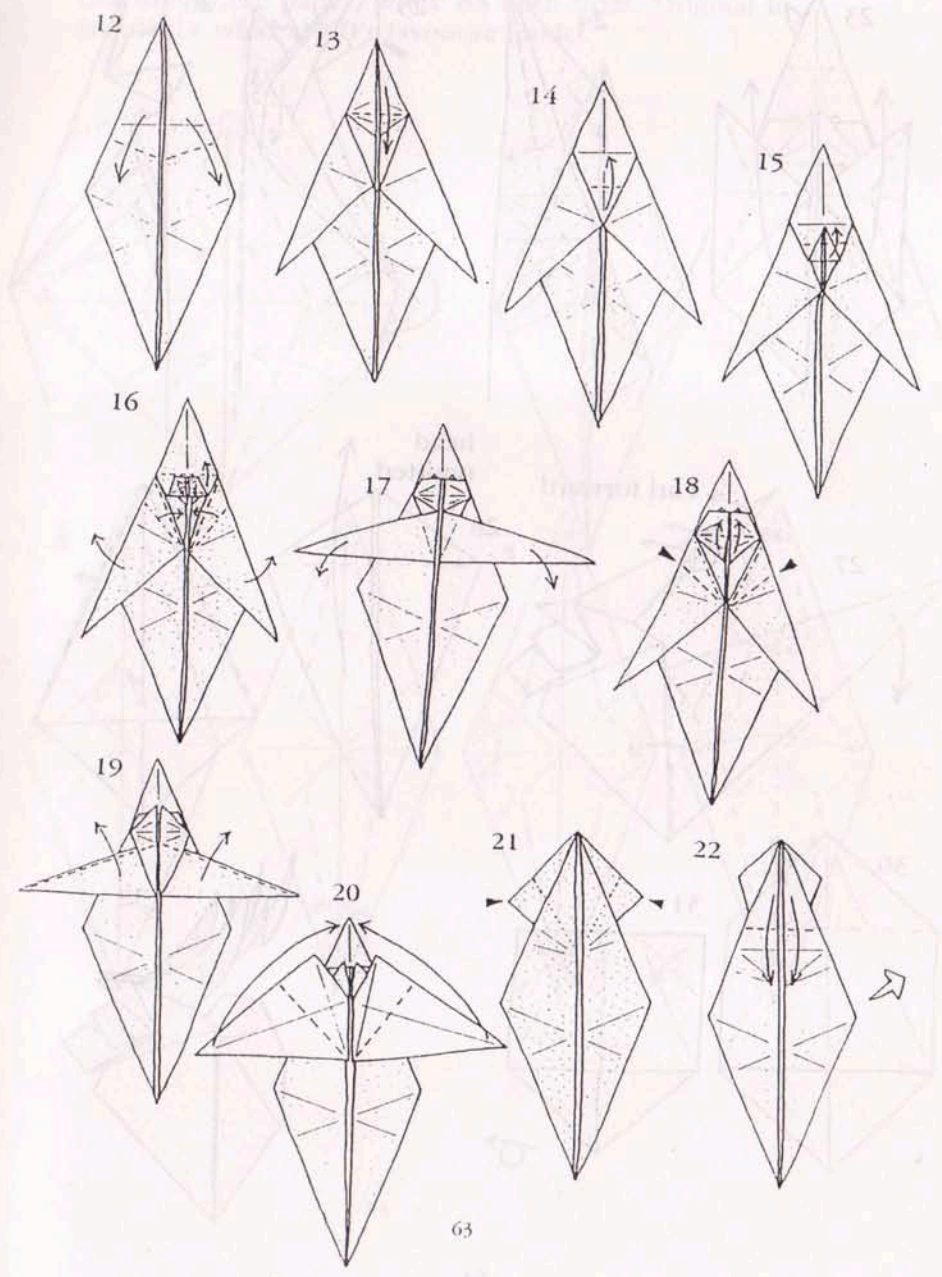
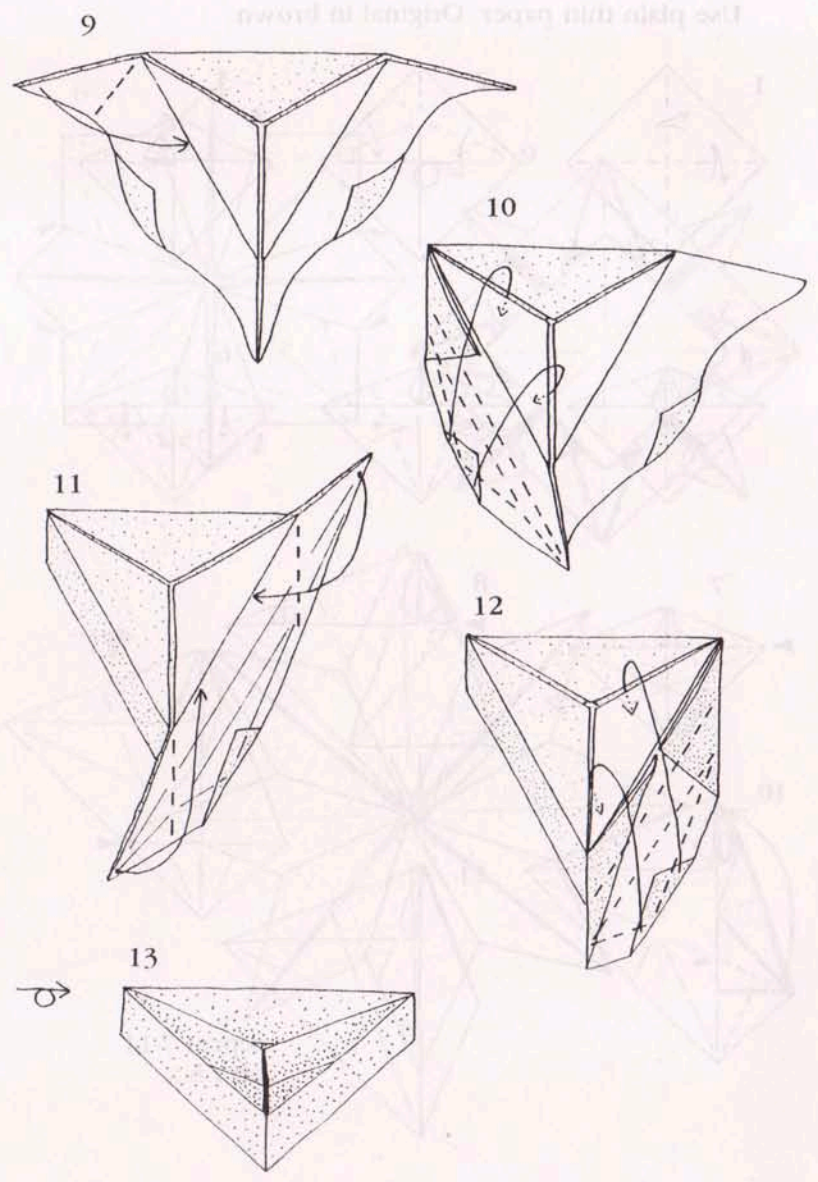
STAG HEAD TROPHY

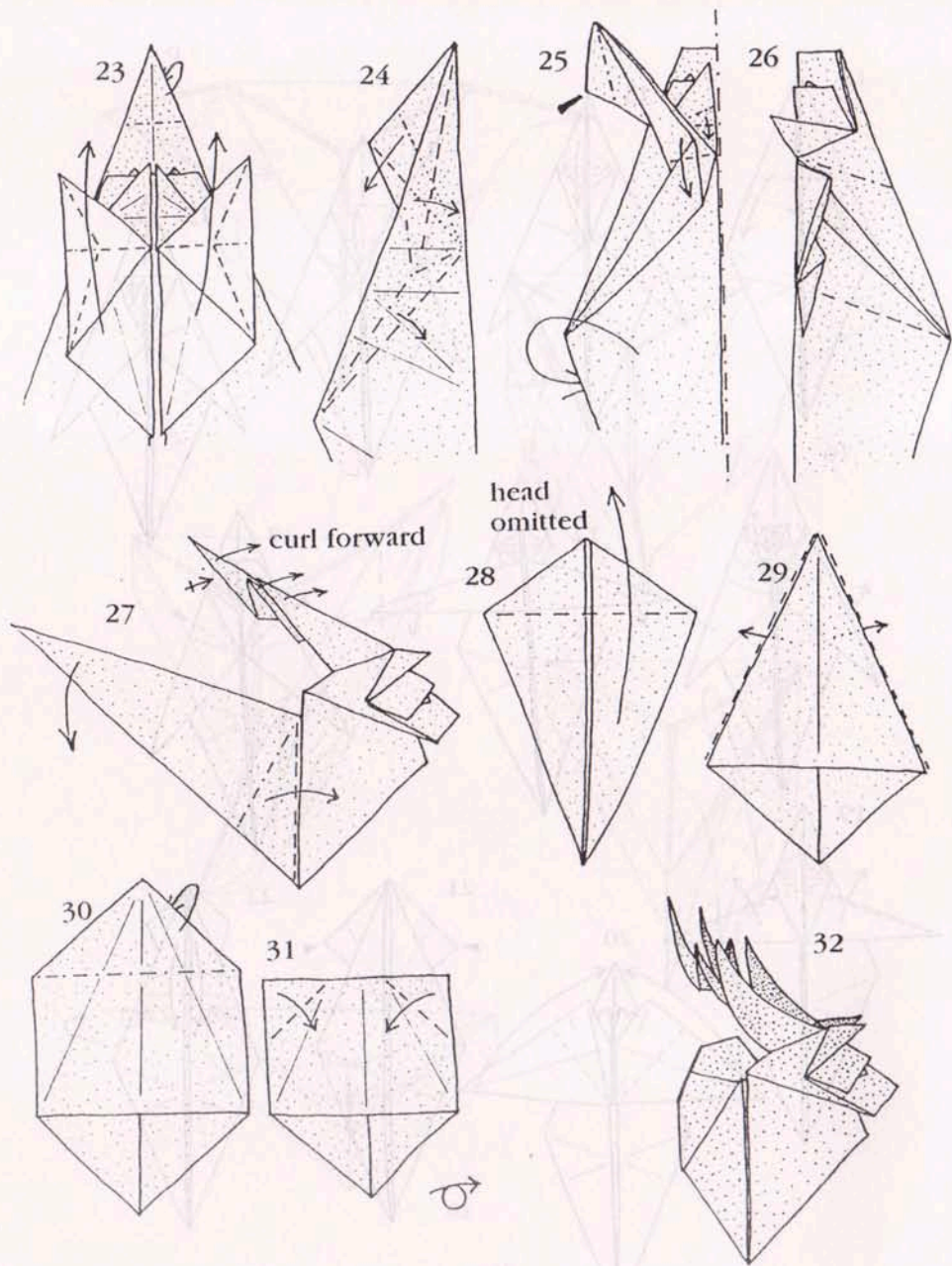
Use plain thin paper. Original in brown.



repeat 7-11 on r.h.s.

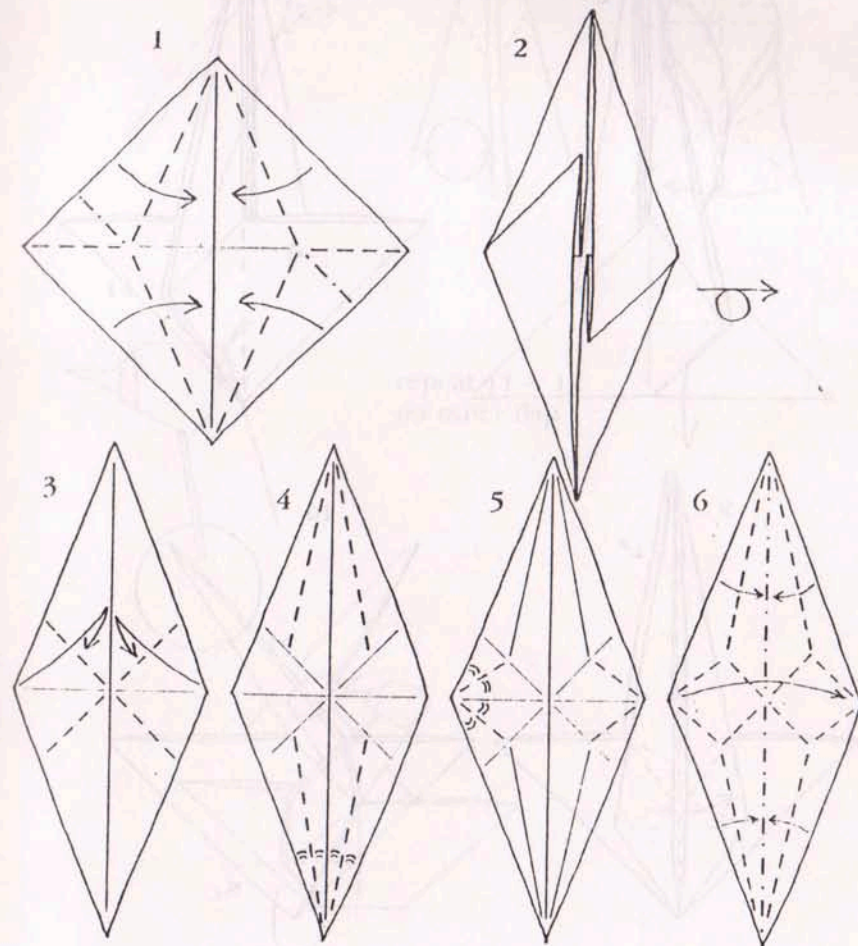
The plain thin paper. Original in brown

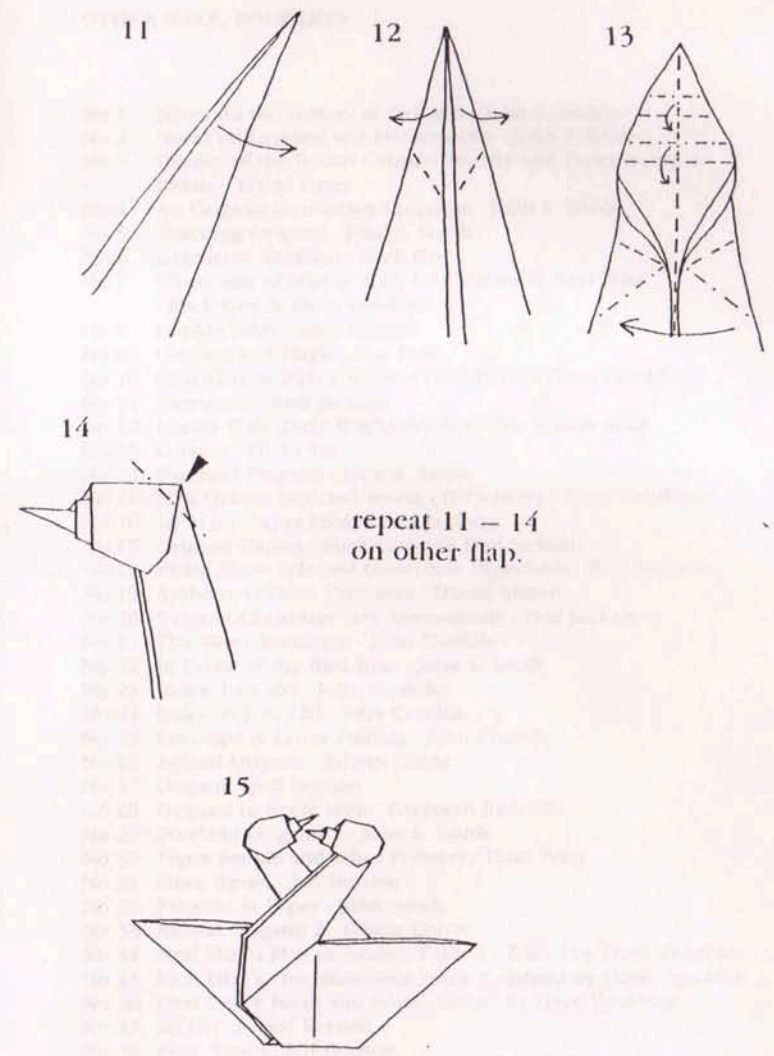
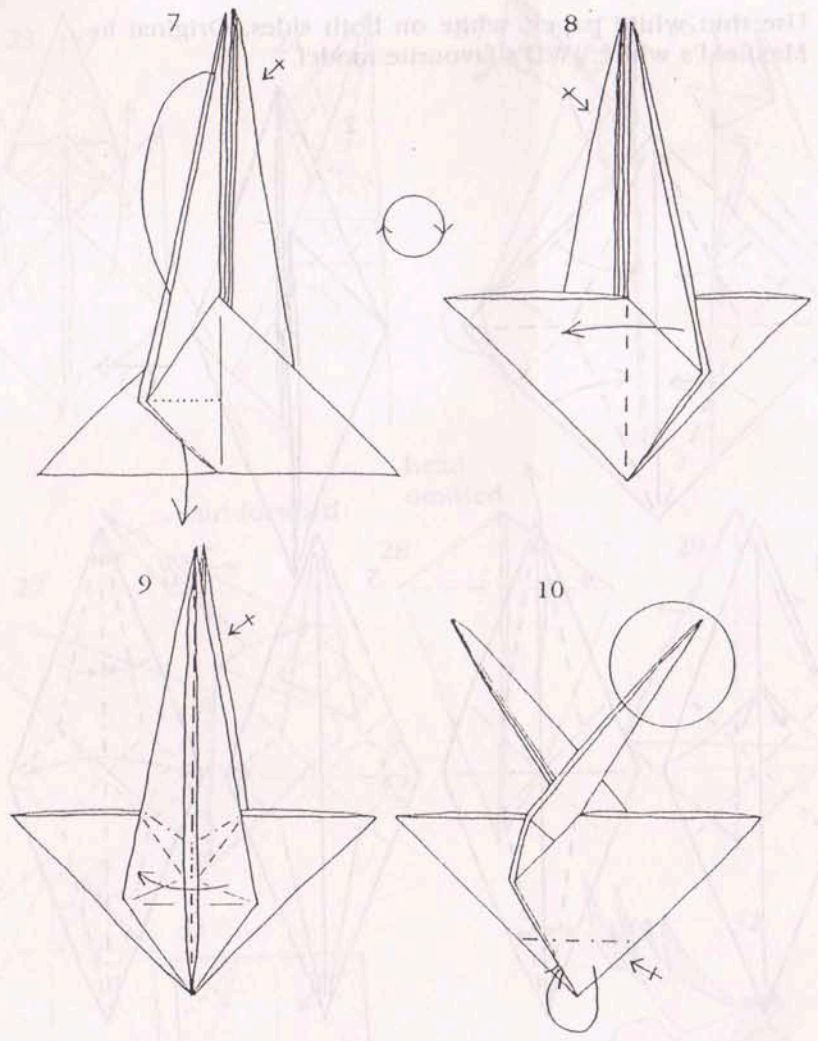




TWO SWANS

Use thin white paper, white on both sides. Original in Maxfield's white. JWD's favourite model.





repeat 11 - 14
on other flap.

model stands
on base.

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