

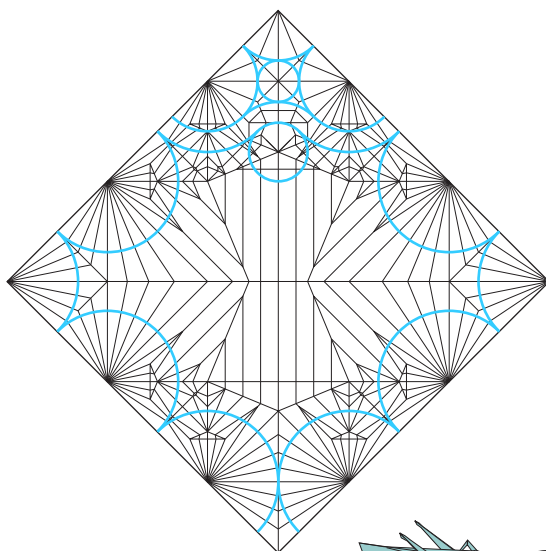
Perched Locust



Designed by Brian Chan, 2008.

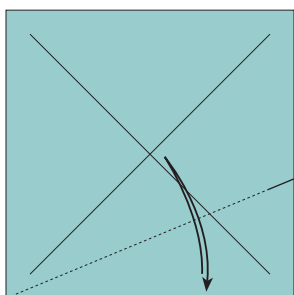
<http://chosetec.darkclan.net/origami>

It is possible for origami to be unnecessarily complex. With this grasshopper, I decided to depict the folded hind legs with single flaps, and the folded wings with a single flap. I think it is one of my most realistic insect designs.



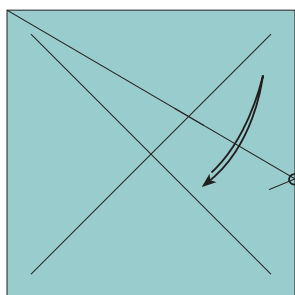
Relative size of finished model.

1



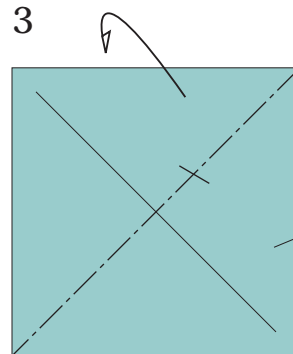
Crease the bisector, only fold sharply where indicated.

2



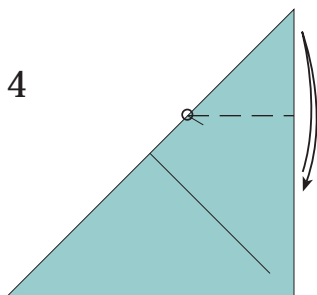
Only fold sharply where indicated.

3



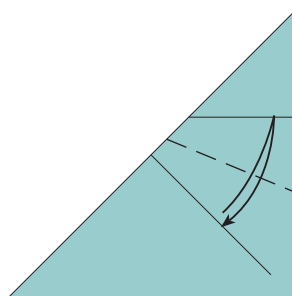
Mountain-fold in half on the diagonal.

4



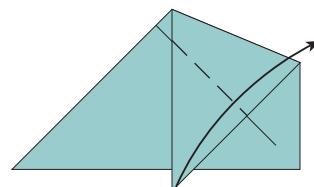
Precrease.

5



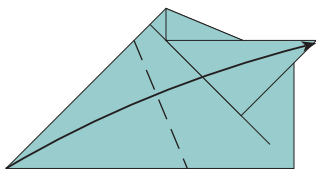
Crease along the angle bisector.

6



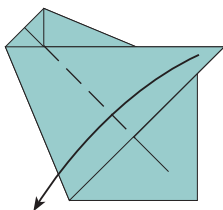
Valley-fold along the centerline.

7



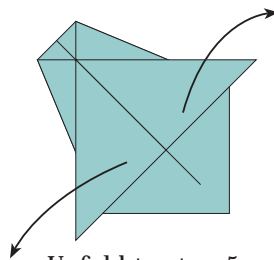
Valley-fold one corner to the other.

8



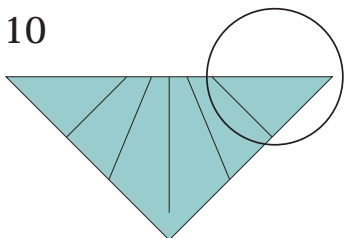
Valley-fold along the centerline.

9



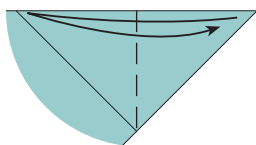
Unfold to step 5.

10



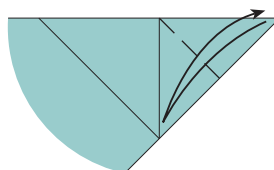
Detail of corner.

11



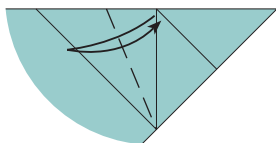
Precrease vertically.

12



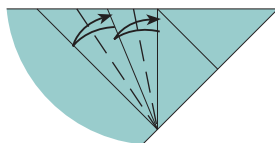
Precrease the angle bisector.

13



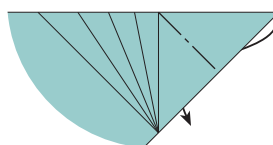
Precrease the angle bisector.

14



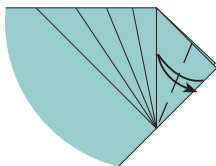
Precrease the angle bisectors.

15



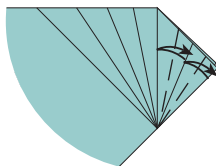
Inside reverse-fold.

16



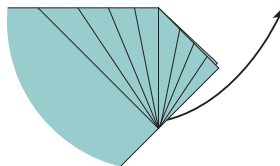
Precrease the angle bisector, repeat behind.

17



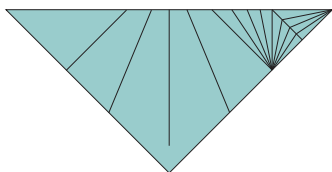
Precrease the angle bisectors, repeat behind.

18



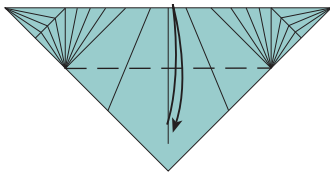
Unfold to step 15.

19



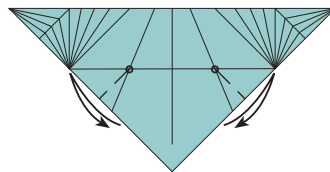
Repeat steps 10-18 on the left side.

20



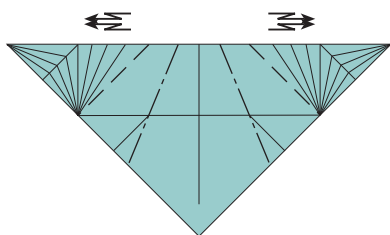
Precrease horizontally, repeat behind.

21



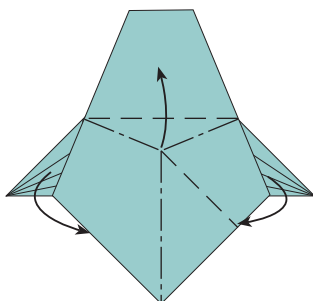
Crease diagonally from the intersections, repeat behind.

22



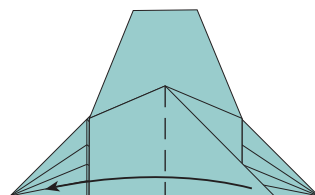
Crimp-folds.

23



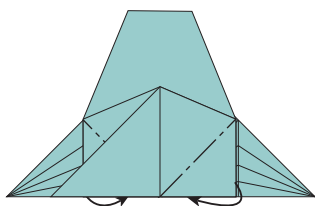
Rabbit-ear, repeat behind.

24



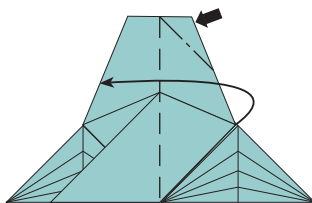
Valley-fold.

25



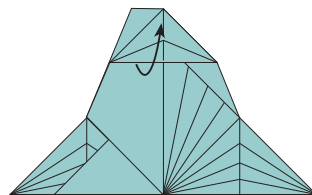
Inside reverse-folds, repeat behind.

26



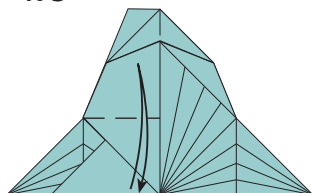
Spread-squash.

27



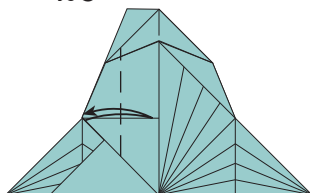
Untuck the small flap.

28



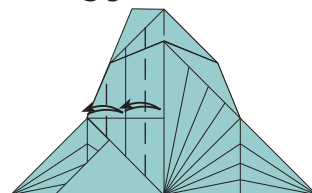
Precrease.

29



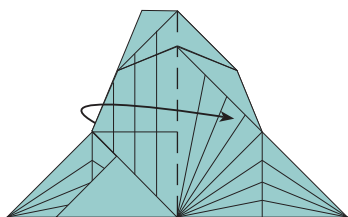
Precrease in half.

30



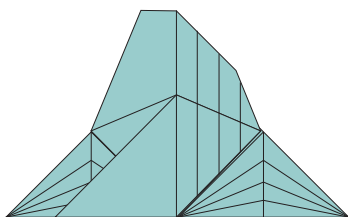
Precrease in fourths.

31



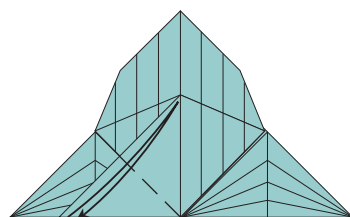
Fold one flap over to the right.

32



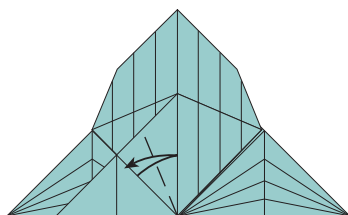
Repeat steps 26-31 on the right, and 28-13 behind.

33



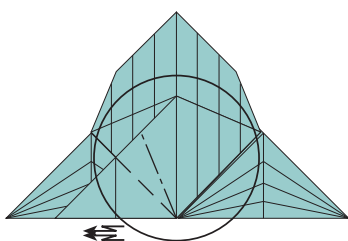
Precrease the flap.

34



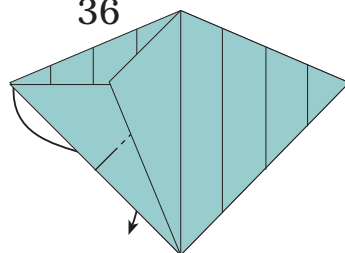
Precrease the bisector.

35



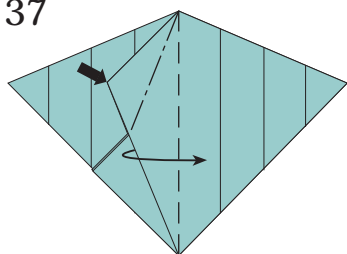
Crimp.

36



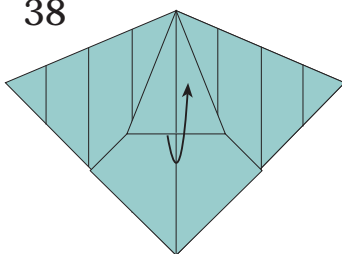
Inside reverse-fold.

37



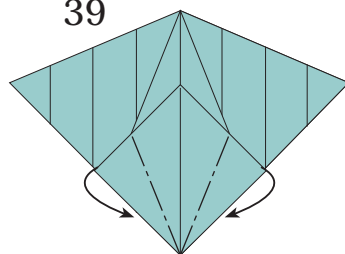
Spread-squash.

38



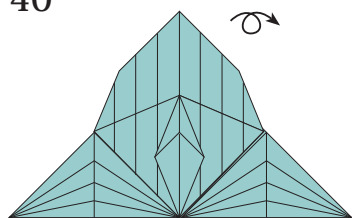
Untuck the small flap.

39



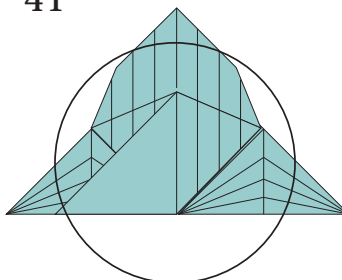
Inside reverse-folds.

40



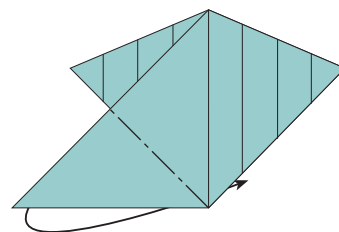
Flip the model over.

41



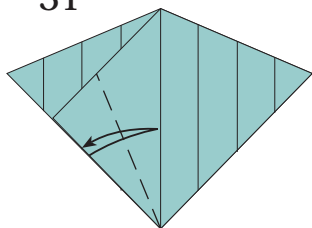
Detail of flap.

42



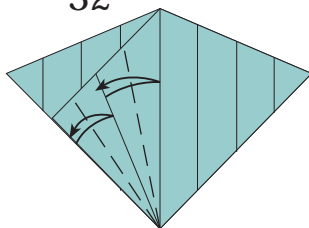
Inside reverse-fold.

31



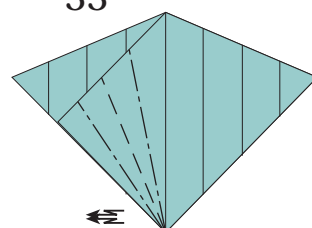
Precrease the angle bisector.

32



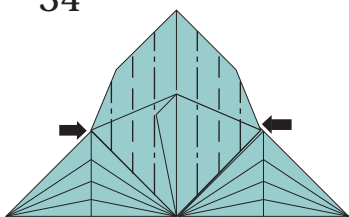
Precrease the angle bisectors.

33



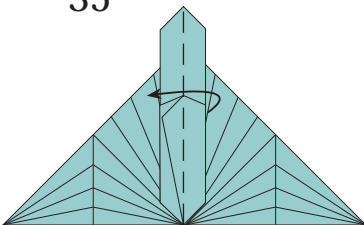
Crimp.

34



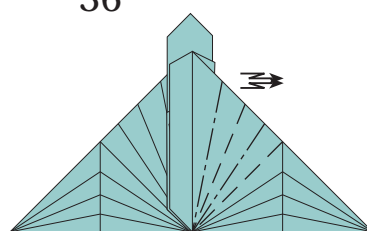
Open-sink in and out.
Repeat behind.

35



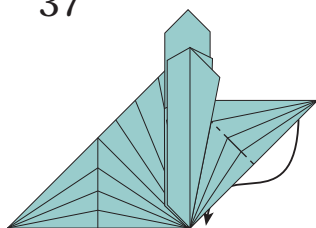
Valley-fold.

36



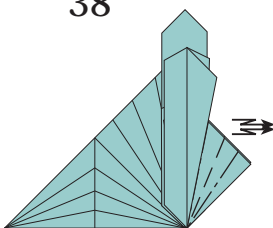
Crimp.

37



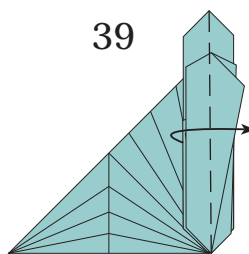
Fold one flap over to the right.

38



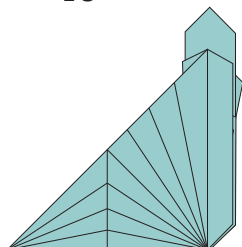
Repeat steps 26-31 on the right, and 28-13 behind.

39



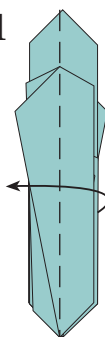
Precrease the flap.

40



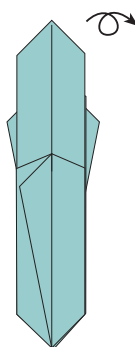
Repeat steps 36-39
on the left.

41



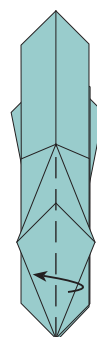
Valley-fold.

42

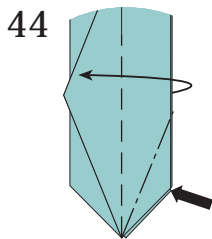


Flip over.

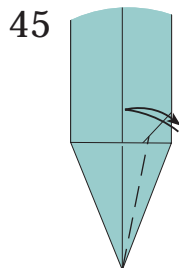
43



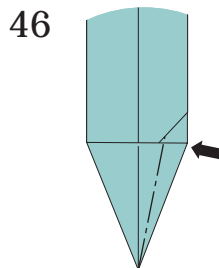
Fold one layer over
to the left.



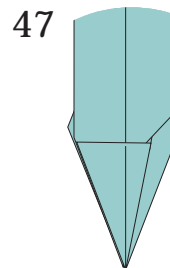
Spread-squash.



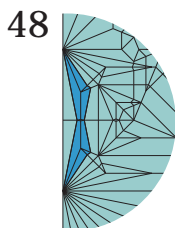
Precrease the bisector.



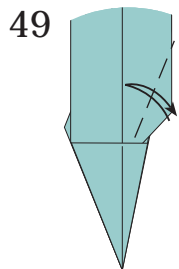
Closed-sink.



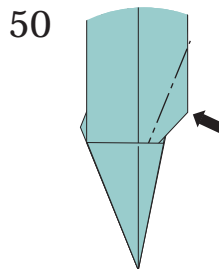
Repeat 40-42 on the remaining edges.



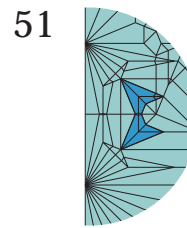
Note that some of sinks overlap.



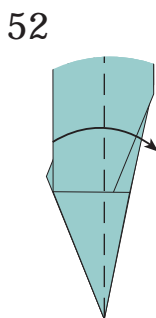
Precrease the bisector.
repeat behind.



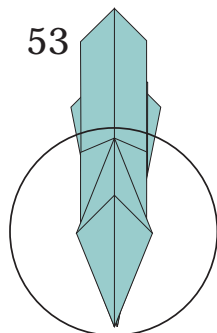
Open-sink.
Repeat behind.



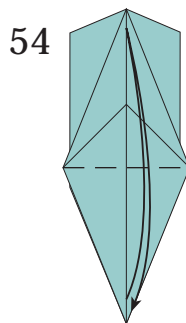
Note that some of the sinks overlap.



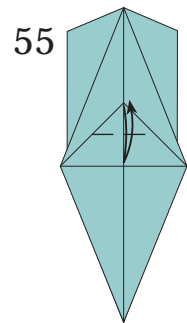
Fold the layers over.



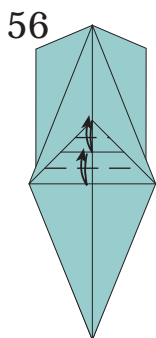
Repeat steps 43-52 on the left.



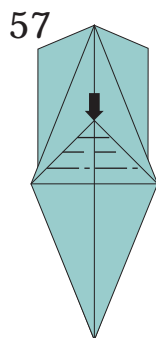
Precrease the tip to the corner.



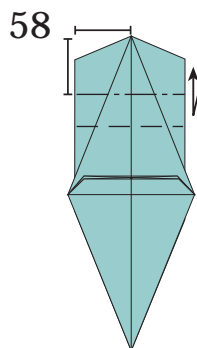
Ccrease the tip in half.



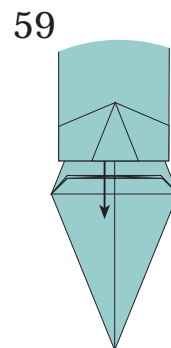
Ccrease the tip in fourths.



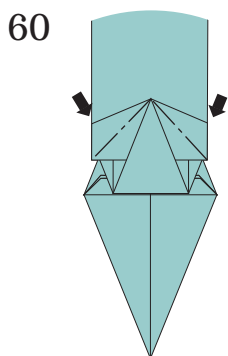
Open-sink in and out.



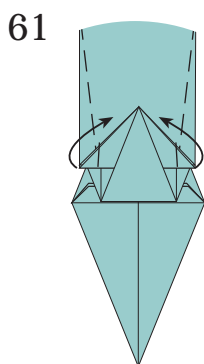
Pleat



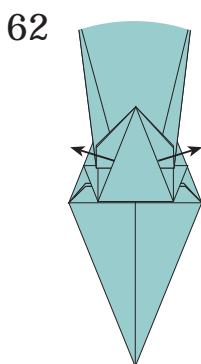
Pull out some paper.



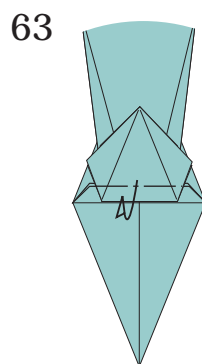
60
Open sink the edges.



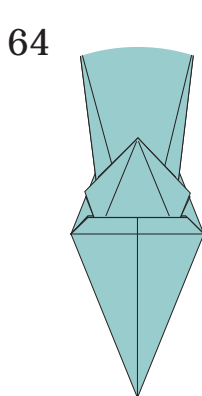
61
Reverse-fold a thin edges in toward the center.



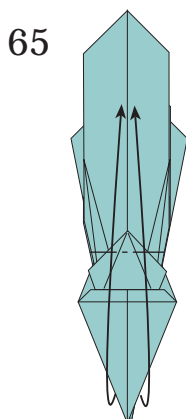
62
Unsink.



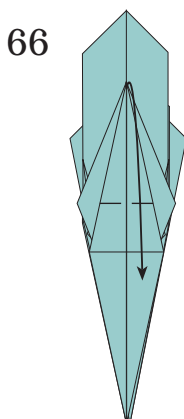
63
Fold a thin edge behind.



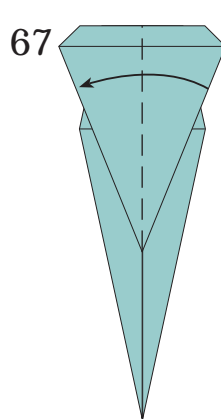
64
Note the shape of the thorax.



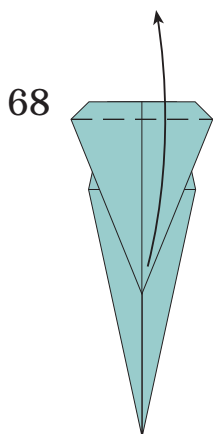
65
Fold three points up as far as they go.



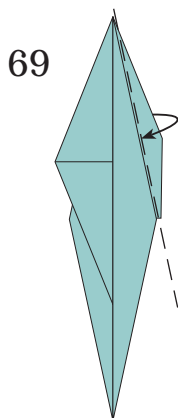
66
Fold three flaps down at their base.



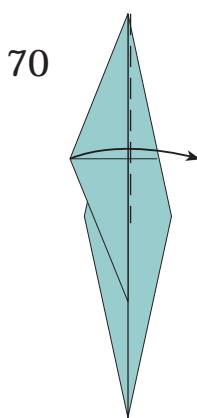
67
Valley-fold one layer.



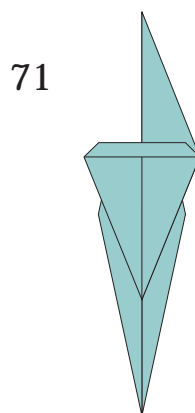
68
Valley-fold up the tip.



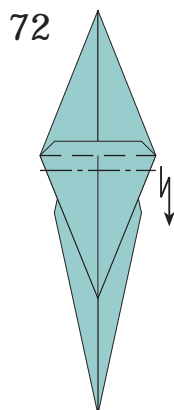
69
Valley fold the edge, tuck inside.



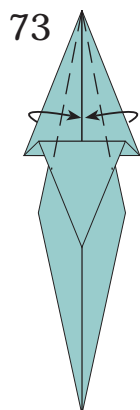
70
Fold the layer back to the right.



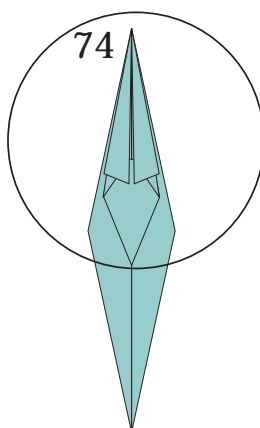
71
Repeat steps 67-70 on the left side.



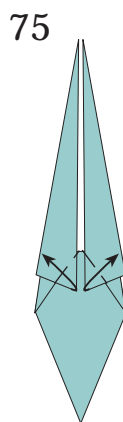
Pleat the head.



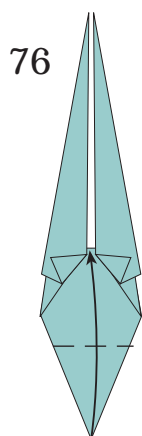
Valley-fold the edges toward the center.



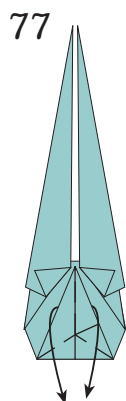
Detail of the head.



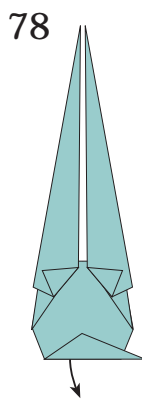
Valley-fold the small corners to form eyes.



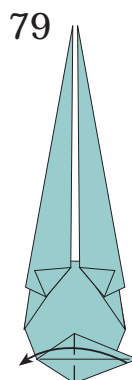
Valley-fold up the tip.



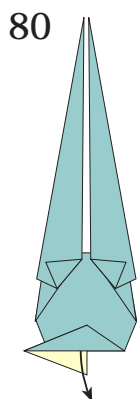
Rabbit-ear.



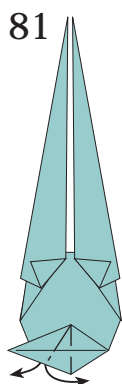
Pull out one layer of paper.



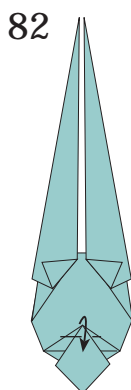
Fold the flap to the left.



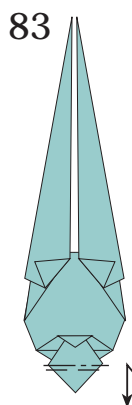
Pull out one layer of paper.



Squash-fold.

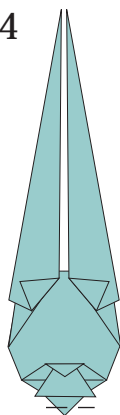


Fold down the tip.



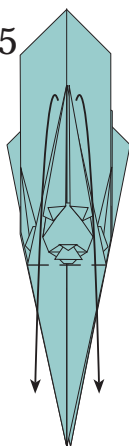
Pleat.

84



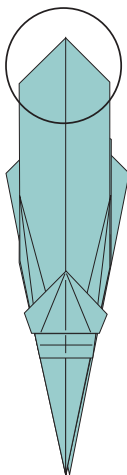
Fold the tip of the mouth behind.

85



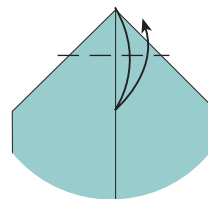
Fold down the entire head area.

86



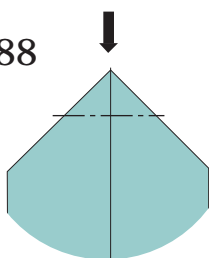
Detail of the end of the body.

87



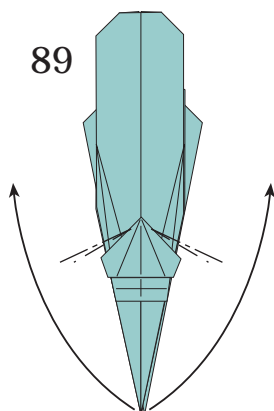
Precrease the tip in half.

88



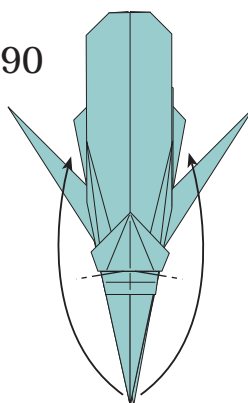
Open sink.

89



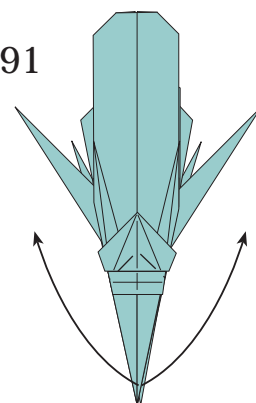
Reverse-fold the nearest leg flaps to become the knees.

90



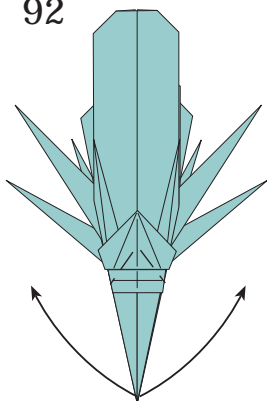
Reverse-fold the next leg flaps to become the feet.

91



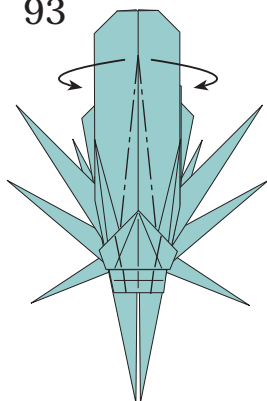
Mountain-fold the next leg flaps to become the middle legs.

92



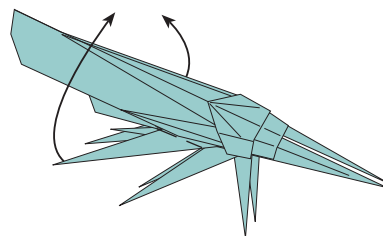
Mountain-fold the next leg flaps to become the front legs.

93



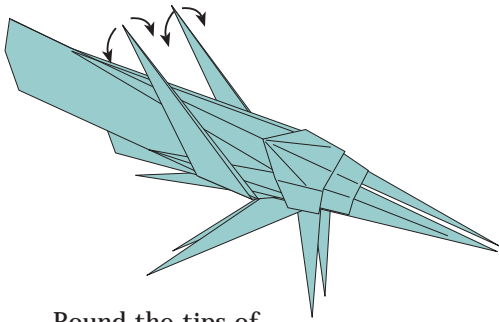
Mountain-fold as shown to shape the body.

94



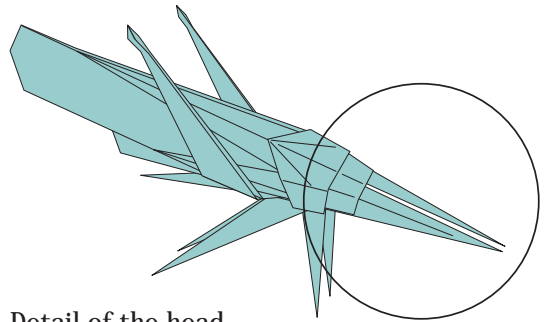
Valley-fold the knees up.

95



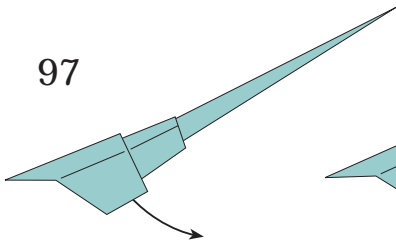
Round the tips of the knees.

96



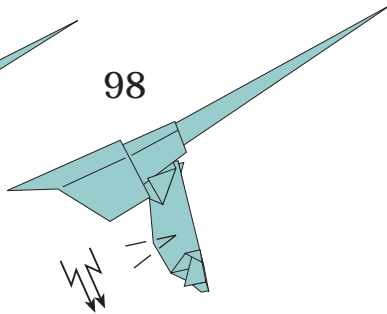
Detail of the head.

97



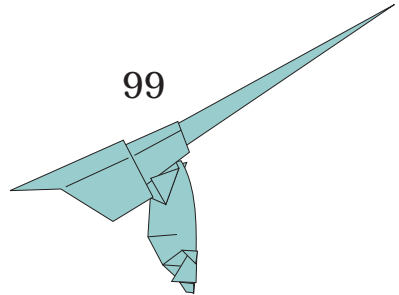
Fold the face outward.

98



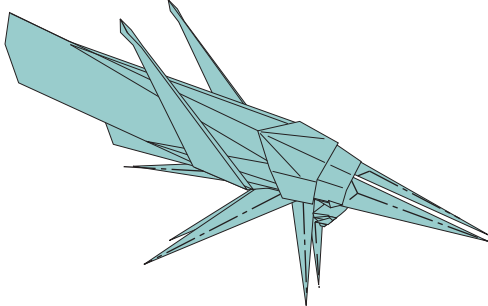
Crimp the edges to round the face.

99



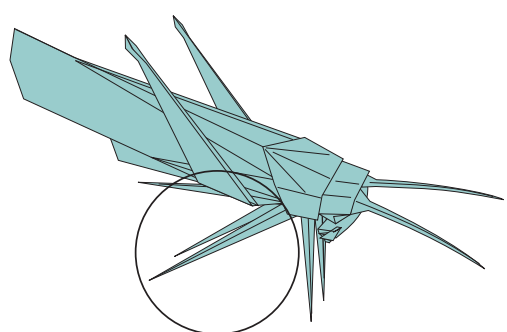
Final appearance of the head.

100



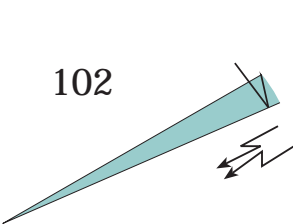
Pinch the legs, feet and antennae to thin them.

101



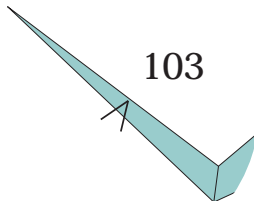
Detail of the feet.

102



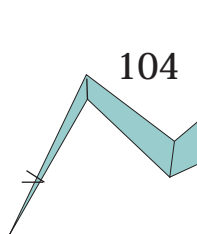
Detail of the feet.

103



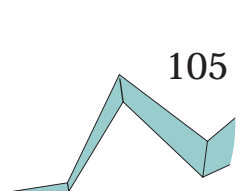
Crimp at the knee

104



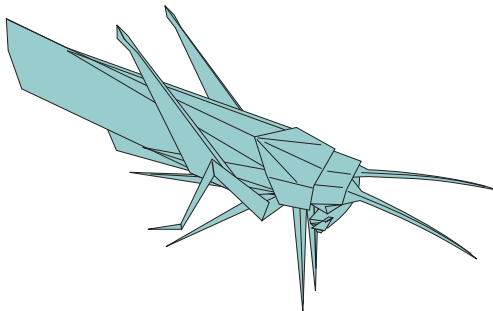
Crimp to form the foot

105



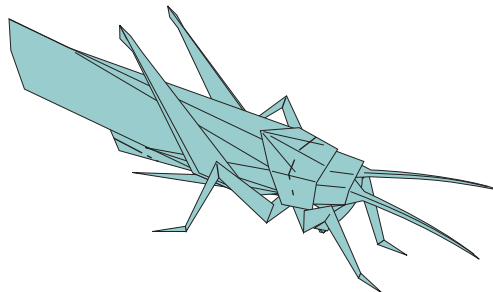
Final shape of the front four legs.

106

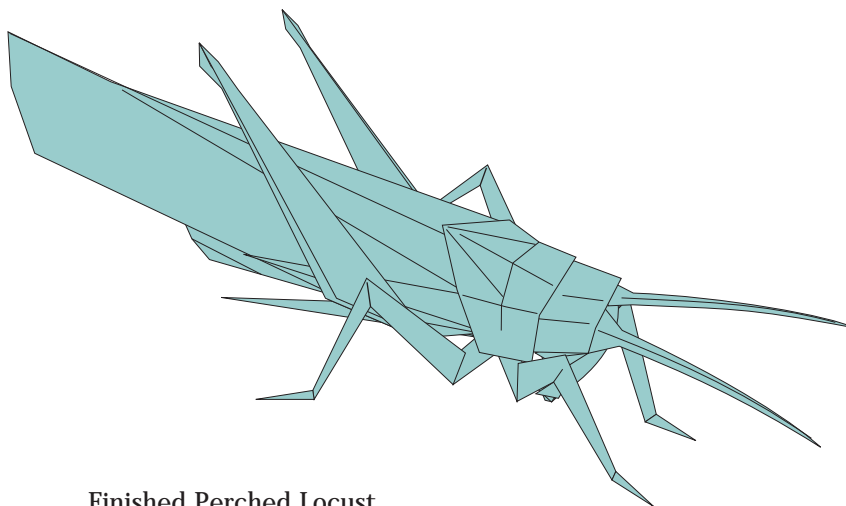


Repeat on the other three forelegs.

107



Indent the thorax slightly.



Finished Perched Locust.