

Stegosaurus Skeleton

Total amount of papers needed:
60 + 20-26 back plate spikes

Note from the Author:
I wanted to thank everyone who patiently waited for this instruction.
If there are every any questions about the instructions, please write me
at origami.ezylona@gmail.com and I'll gladly provide information and help.

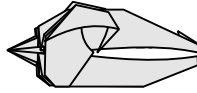
Size full figure, scale in centimeters:
Length: skull to tail tip: ~50cm
Height: toes to back spikes: ~25cm

A "*" symbol in front and after the
text indicates a change in the size of
the figure for better visualisation.

And most importantly, have fun folding!

Skull

Skull: 10x10



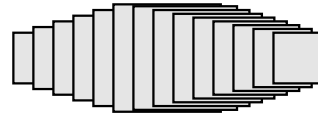
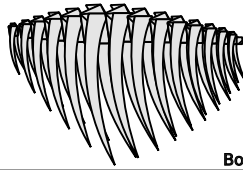
Neckbones

Neckbones 1+2: 6x6
Neckbones 3+4: 6.5x6.5
Neckbones 5+6: 7x7
Neckbone 7: 7.5x7.5
Neckbone 8: 7.5x7.5



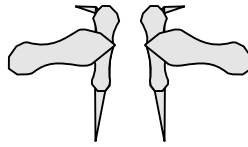
Ribbones

Ribbone 1: 7x7
Ribbone 2: 8.5x8.5
Ribbone 3: 10x10
Ribbone 4: 11.5x11.5
Ribbone 5: 13x13
Ribbone 6: 14.5x14.5
Ribbone 7: 14x14
Ribbone 8: 13x13
Ribbone 9: 12x12
Ribbone 10: 11x11
Ribbone 11: 10x10
Ribbone 12: 9x9
Ribbone 13: 8x8
Ribbone 14: 7x7



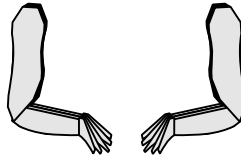
Shoulder Blades

Blade left: 11x11
Blade right: 11x11



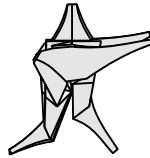
Front Legs

Left front leg: 12x12
Right leg: 12x12



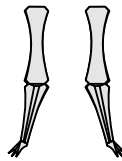
Hip Bone

Hipbone: 11x11



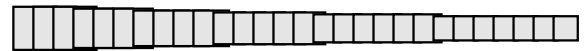
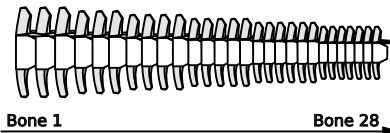
Back Legs

Left back leg: 17x17
Right leg: 17x17



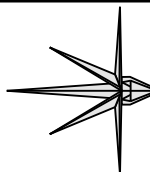
Tail Bones

Tail Vertebrae 1-3: 6x6
Tail Vertebrae 4-6: 5.5x5.5
Tail Vertebrae 7-10: 5x5
Tail Vertebrae 11-15: 4.5x4.5
Tail Vertebrae 16-21: 4x4
Tail Vertebrae 22-28: 3.5x3.5



Tail Spikes

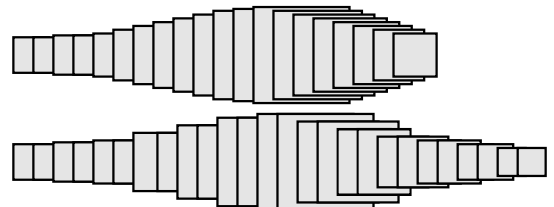
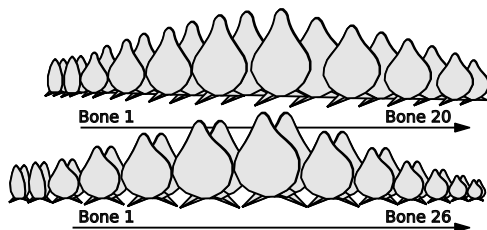
Tail Spikes: 9x9
Tail Tip: 4x4



Back Plates

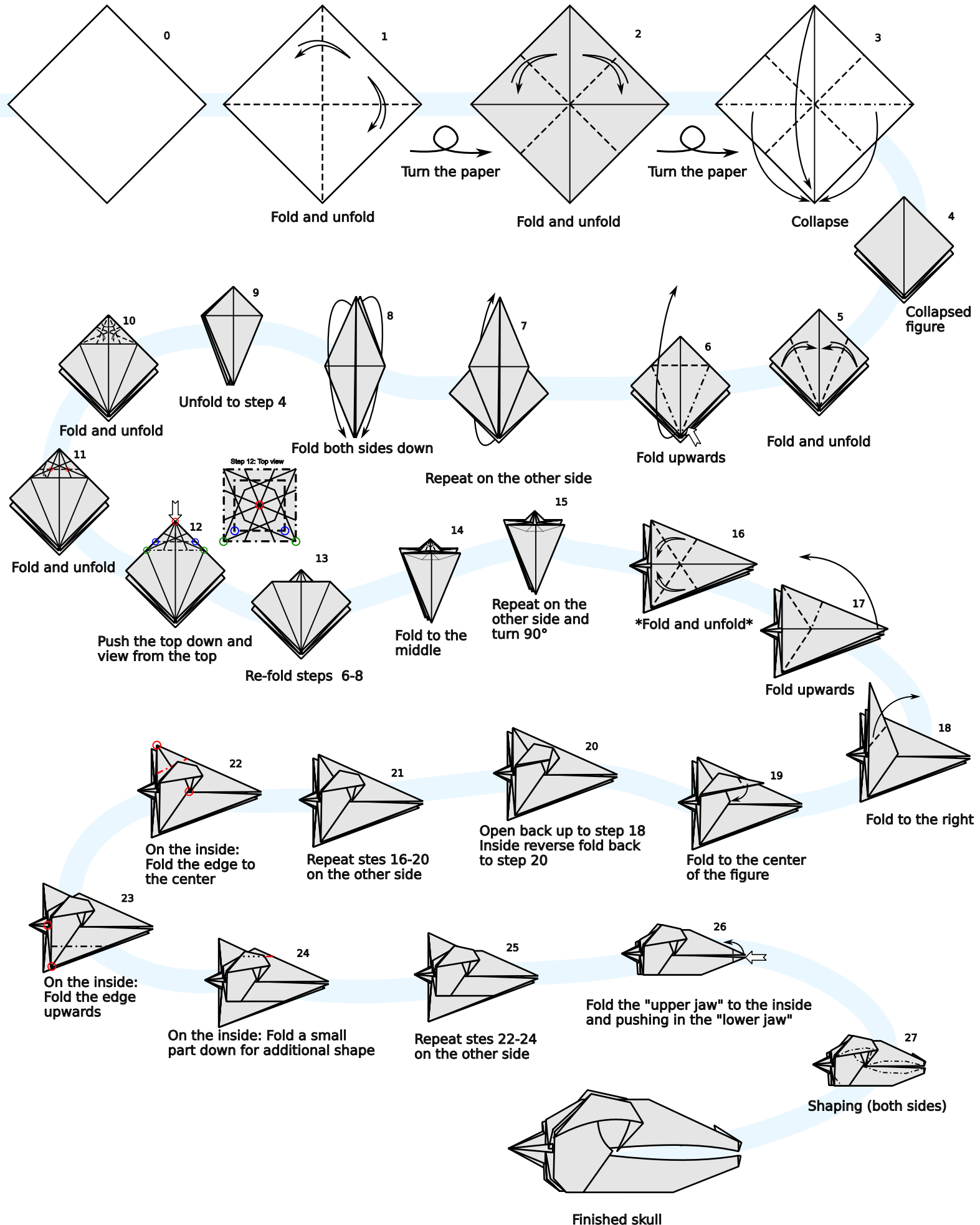
For alternating plates:
Small plates:
Plate 1+2: 5x5
Plate 3+4: 5.5x5.5
Large plates:
Plate 5: 6x6
Plate 6: 7x7
Plate 7: 8x8
Plate 8: 9x9
Plate 9: 10x10
Plate 10: 11x11
Plate 11: 12x12
Plate 12: 12.5x12.5
Plate 13: 13x13
Plate 14: 13x13
Plate 15: 11x11
Plate 16: 10x10
Plate 17: 9x9
Plate 18: 8x8
Plate 19: 7x7
Plate 20: 6x6

For parallel plates:
Plate 1+2: 5x5
Plate 3+4: 5.5x5.5
Large plates:
Plate 5+6: 6x6
Plate 7+8: 8x8
Plate 9+10: 10x10
Plate 11+12: 11x11
Plate 13+14: 13x13
Plate 15+16: 13x13
Plate 17+18: 9x9
Plate 19+20: 7x7
Plate 21+22: 6x6
Plate 23+24: 5x5
Plate 25+26: 4x4



Stegosaurus Skull

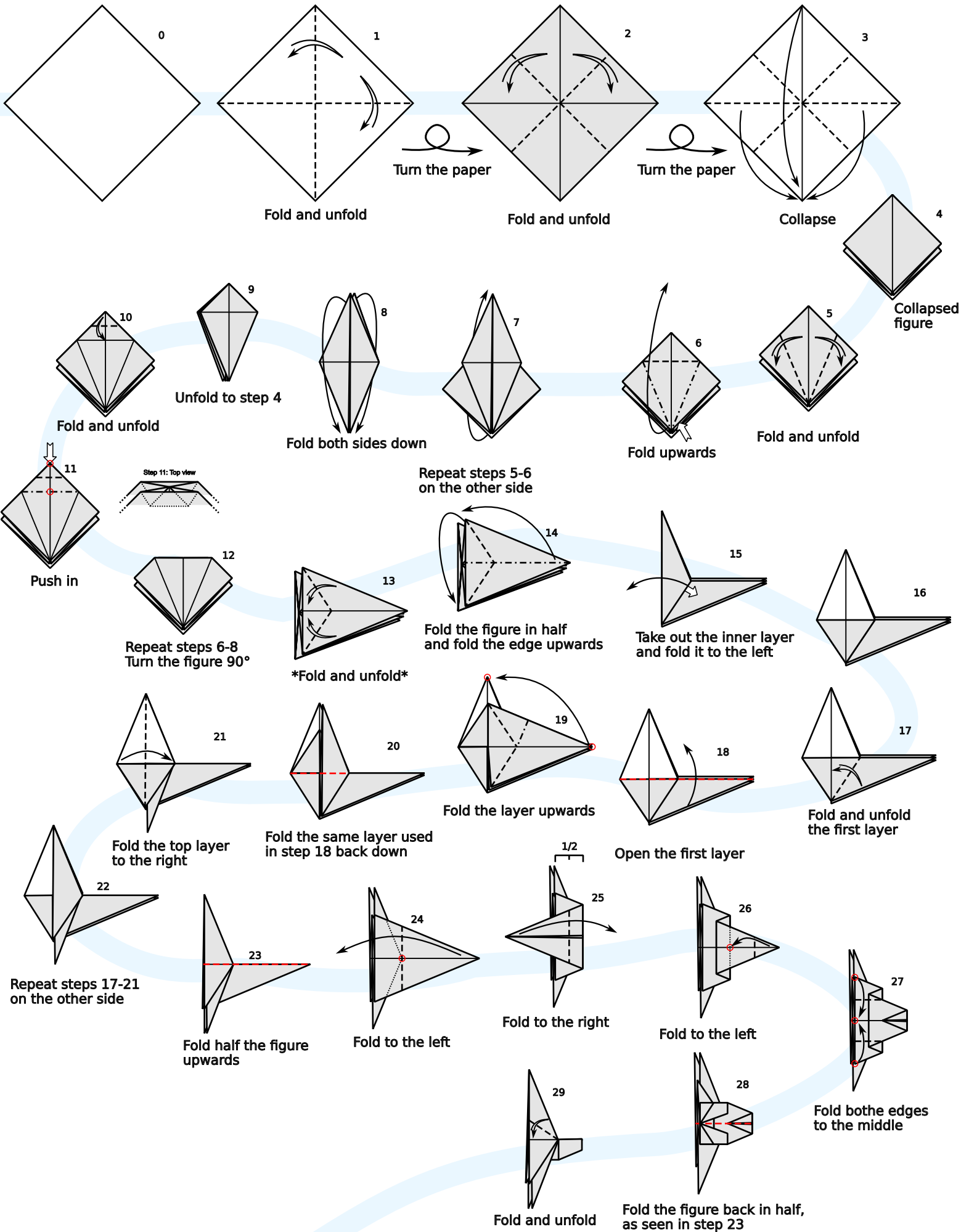
Paper:
Skull: 10x10

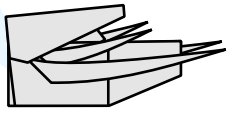
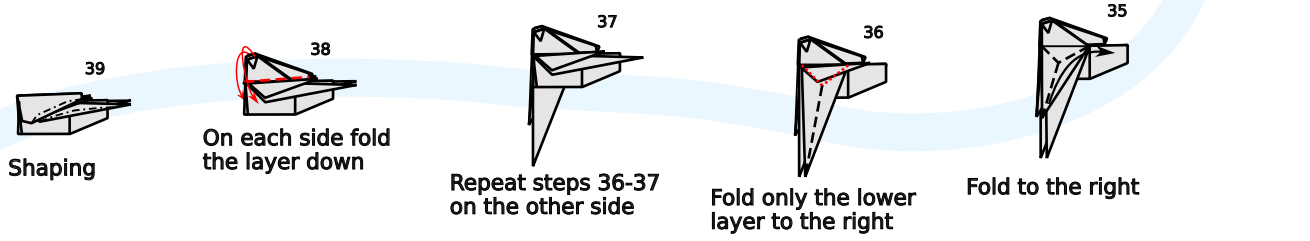
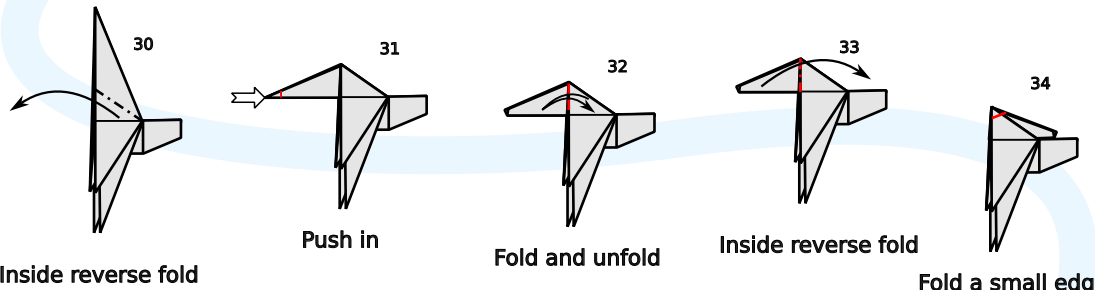


Stegosaurus Neck Vertebrae

Papers:

- Bones 1+2: 6x6
- Bones 3+4: 6.5x6.5
- Bones 5+6: 7x7
- Bone 7: 7.5x7.5

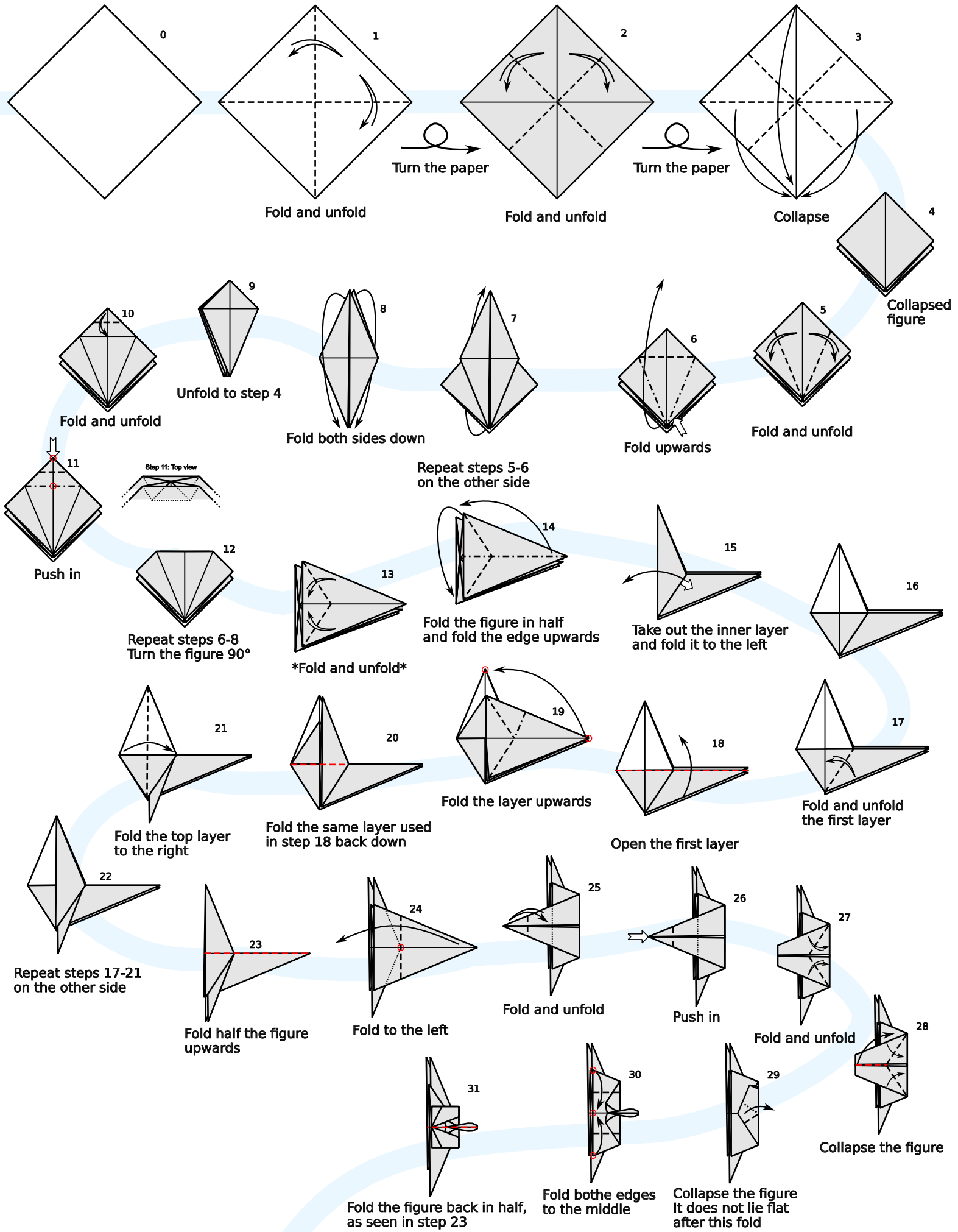


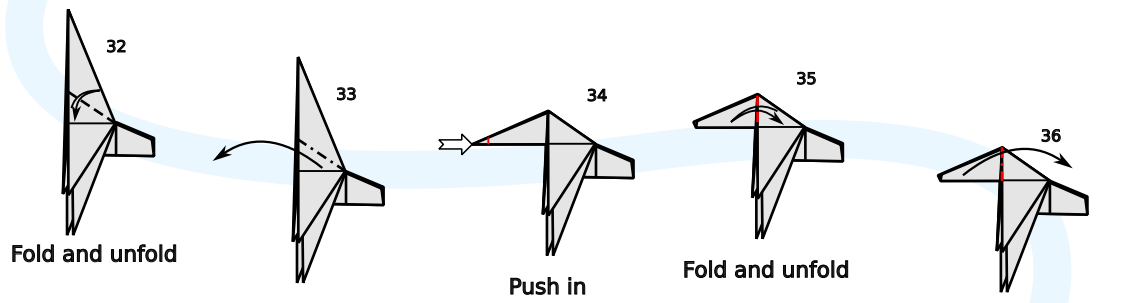


Due to the layers the final figure is more 3-dimensional

Stegosaurus Neck-Rib Vertebrae

Paper:
Bone 8: 7.5x7.5





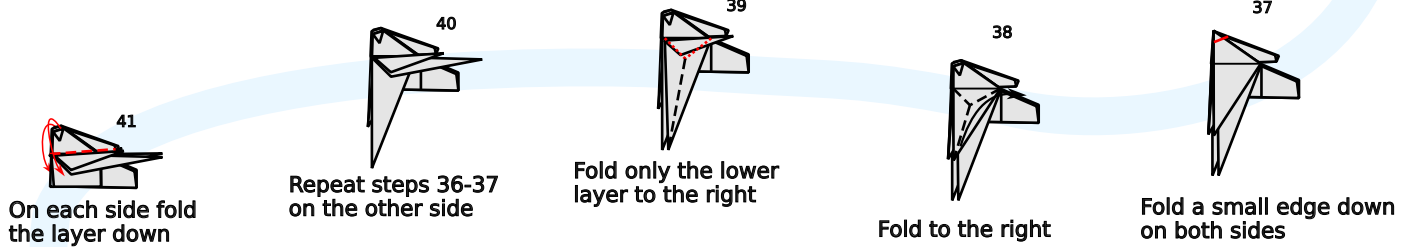
Fold and unfold

Inside reverse fold

Push in

Fold and unfold

Inside reverse fold



Repeat steps 36-37 on the other side

Fold only the lower layer to the right

Fold to the right

Fold a small edge down on both sides

On each side fold the layer down



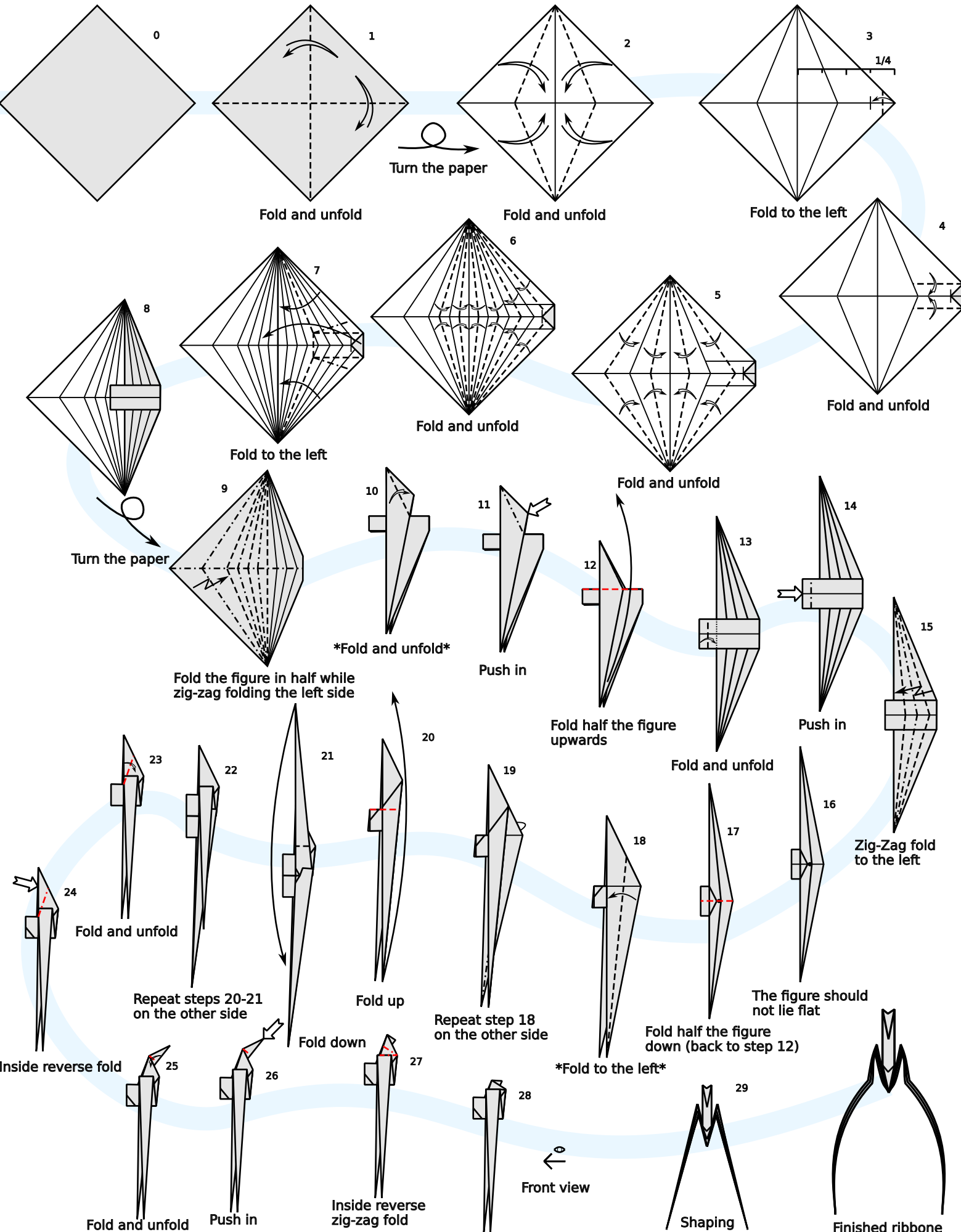
Shaping

Due to the layers the final Figure is more 3-dimensional.
Finished neck-rib connection bone

Stegosaurus Ribbon

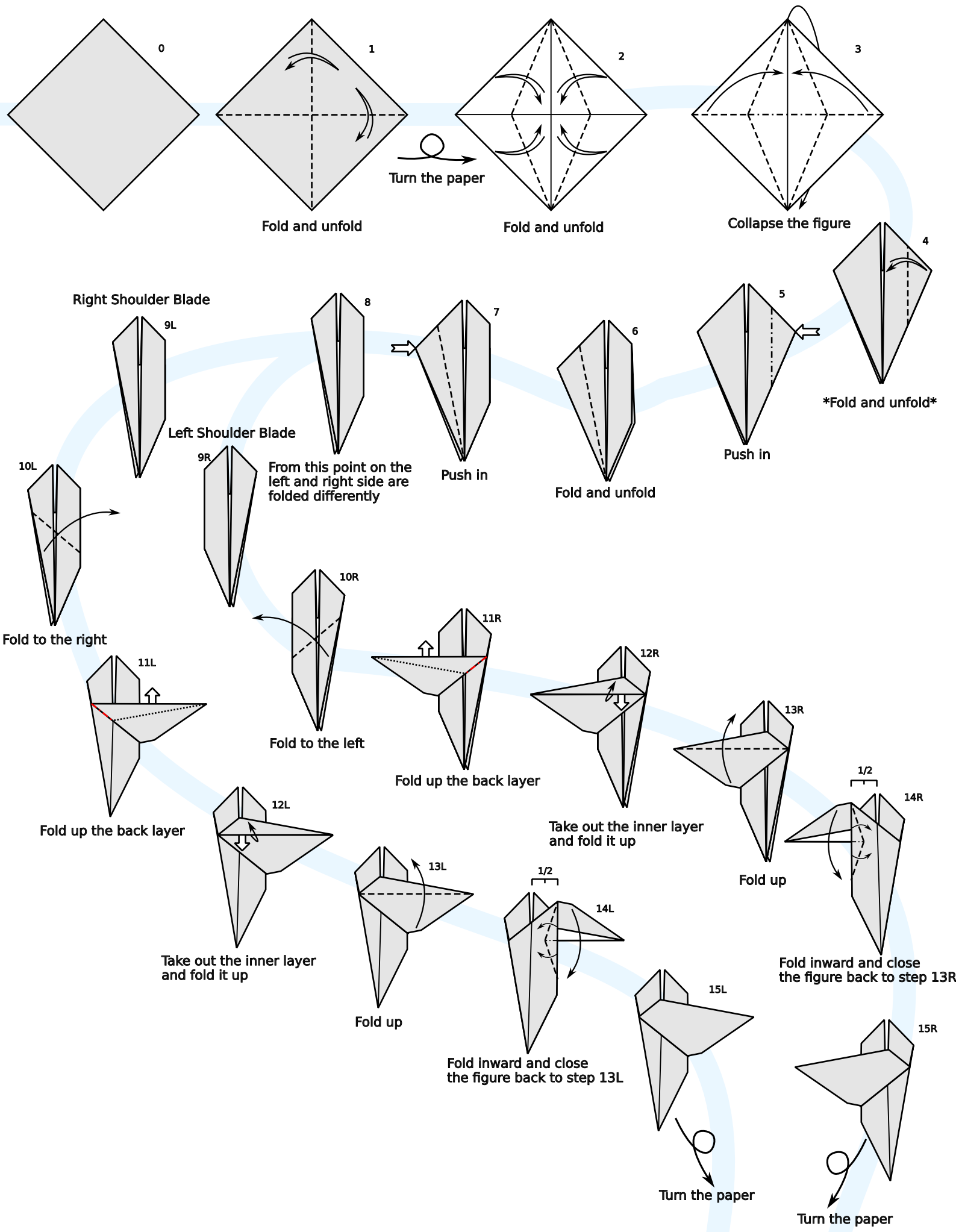
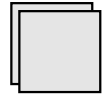
Papers:

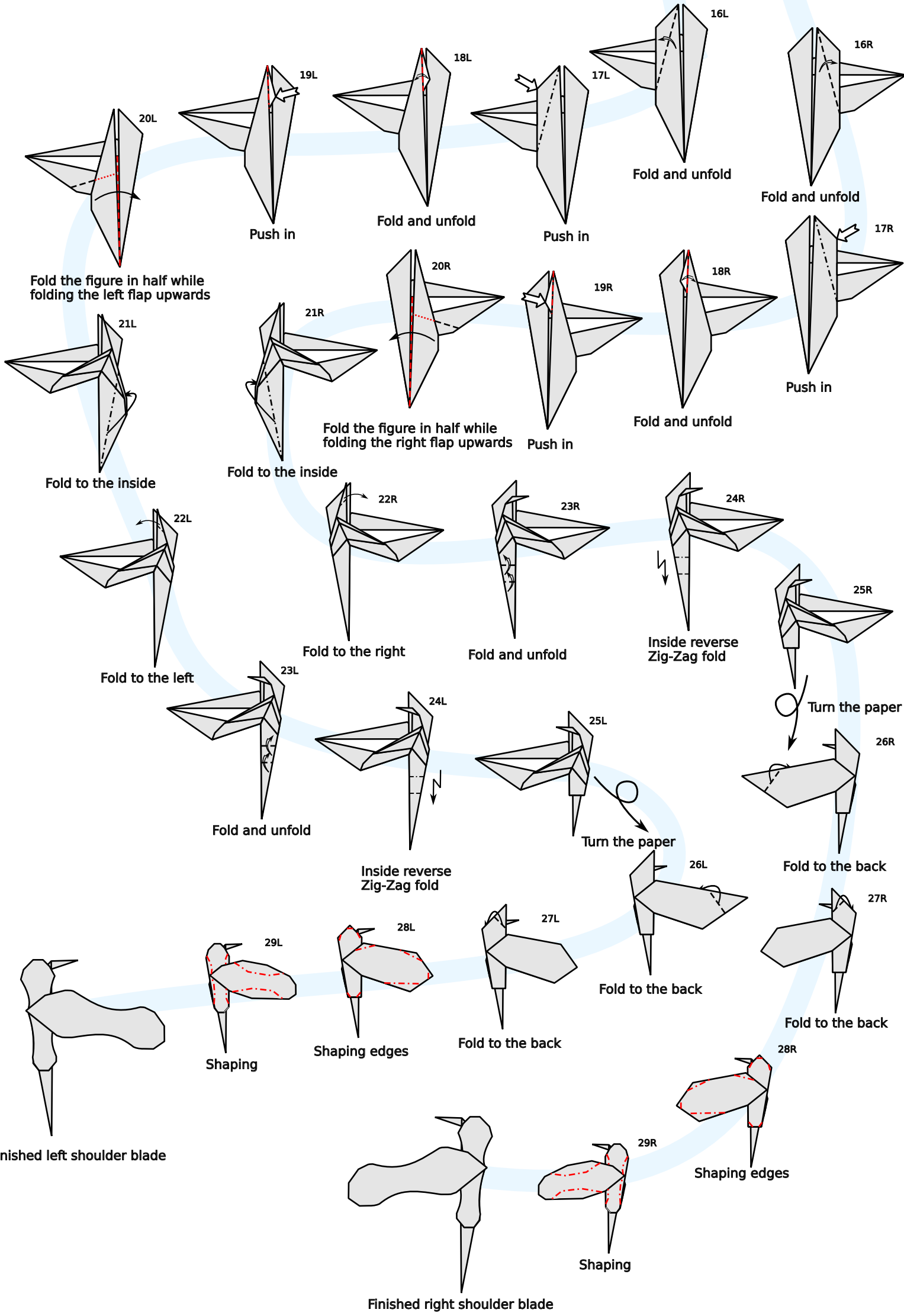
- Bone 1: 7x7
- Bone 2: 8.5x8.5
- Bone 3: 10x10
- Bone 4: 11.5x11.5
- Bone 5: 13x13
- Bone 6: 14.5x14.5
- Bone 7: 14x14
- Bone 8: 13x13
- Bone 9: 12x12
- Bone 10: 11x11
- Bone 11: 10x10
- Bone 12: 9x9
- Bone 13: 8x8
- Bone 14: 7x7



Stegosaurus Shoulder Blades

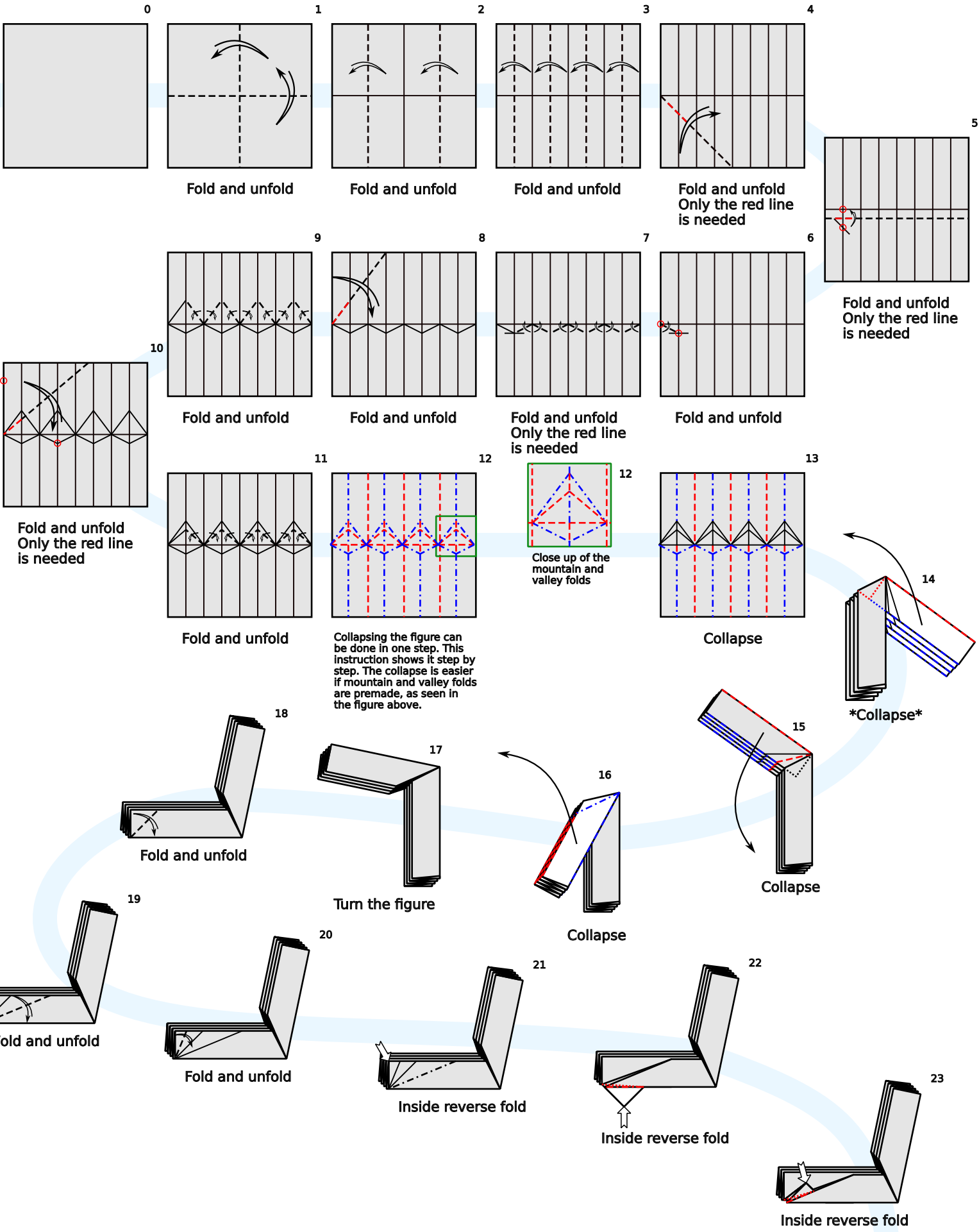
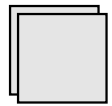
Papers:
Blade left: 11x11
Blade right: 11x11

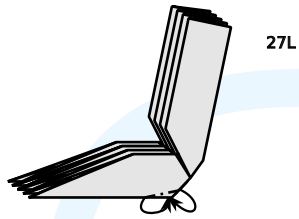




Stegosaurus Front Leg Bones

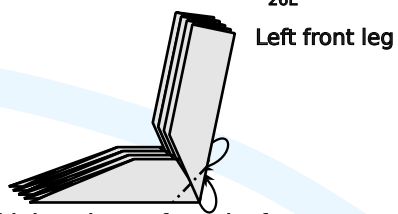
Papers:
 Left leg: 12x12
 Right leg: 12x12





27L

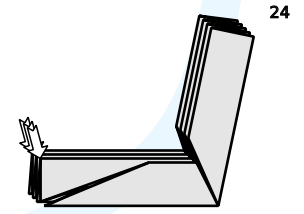
Fold three layers from the front and two layers from the backside to the inside



26L

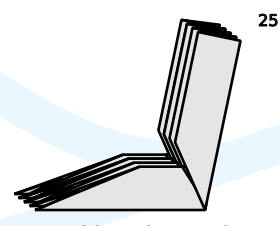
Left front leg

Fold three layers from the front and two layers from the backside to the inside



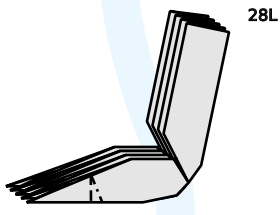
24

Repeat steps 18-23 on the other three layers



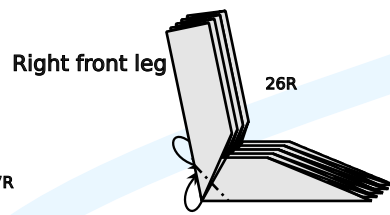
25

From this point on the left and right side are folded differently



28L

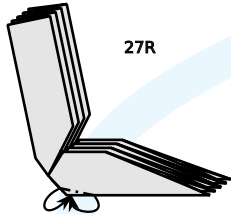
Inside reverse Zig-Zag fold all four layers



Right front leg

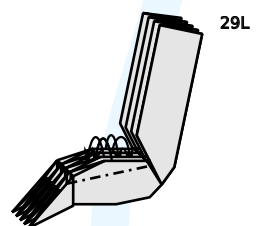
26R

Fold three layers from the front and two layers from the backside to the inside



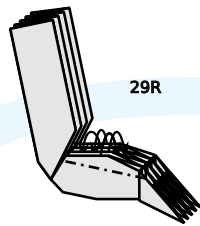
27R

Fold three layers from the front and two layers from the backside to the inside



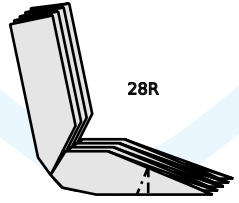
29L

Fold two layers from the front and two layers from the backside into the middle "valley". It should look like two bones.



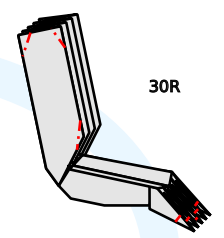
29R

Fold two layers from the front and two layers from the backside into the middle "valley". It should look like two bones.



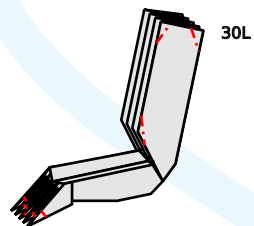
28R

Inside reverse Zig-Zag fold all four layers



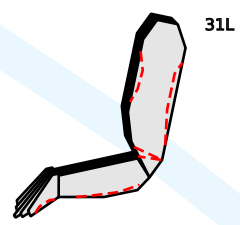
30R

General shaping Toes are shortened at different lengths, with the middle one the longest



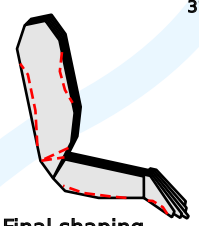
30L

General shaping Toes are shortened at different lengths, with the middle one the longest



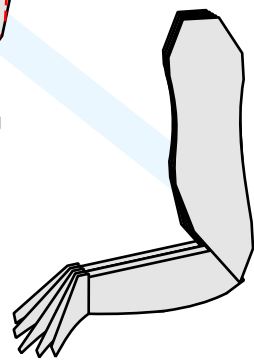
31L

Final shaping

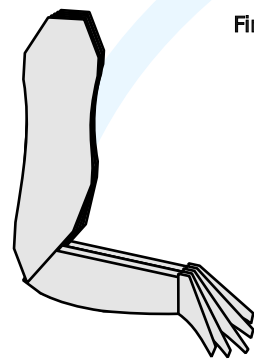


31R

Final shaping



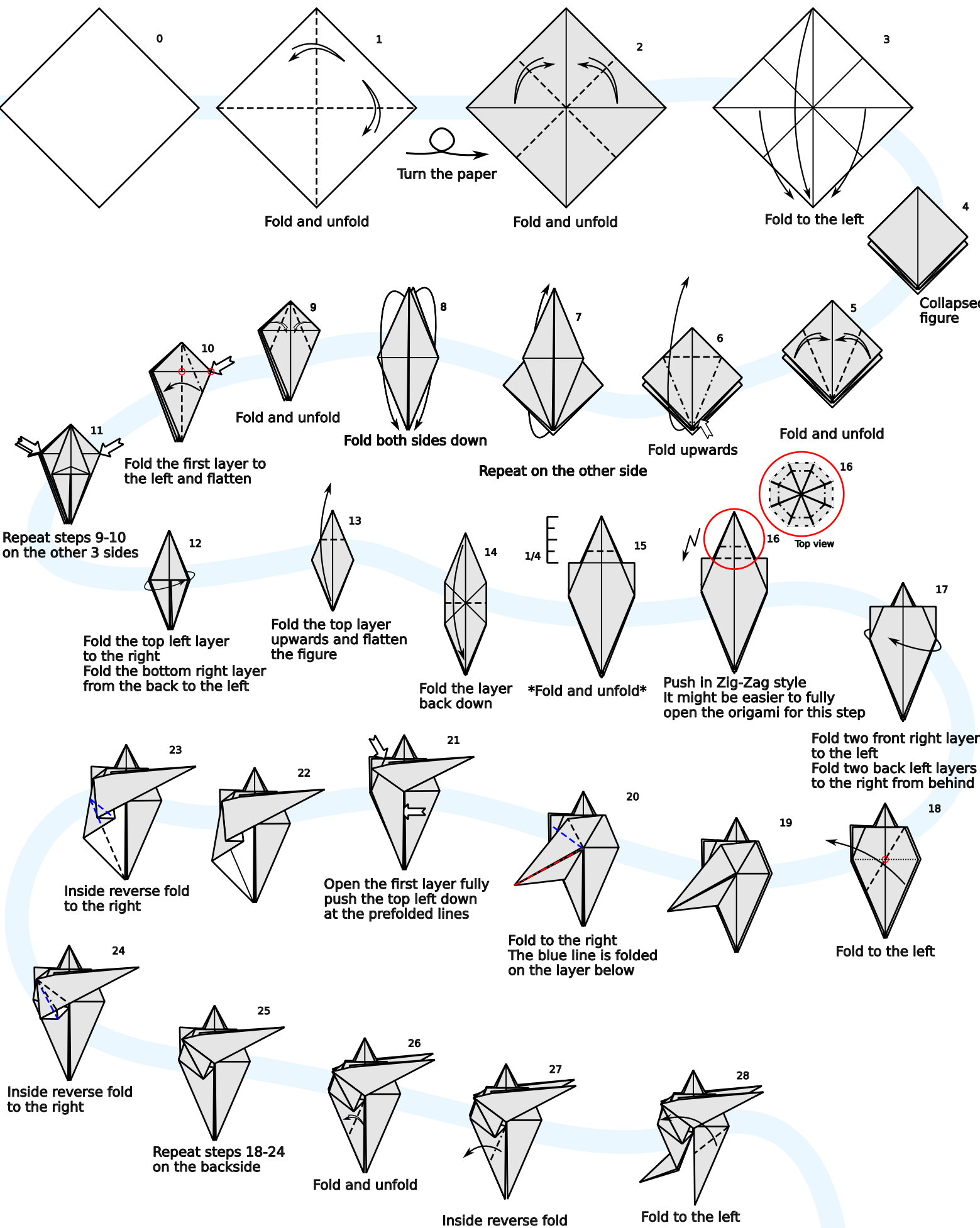
Finished left front leg

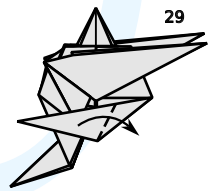


Finished right front leg

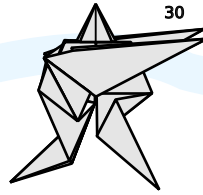
Stegosaurus Hip Bone

Paper:
Bone: 11x11

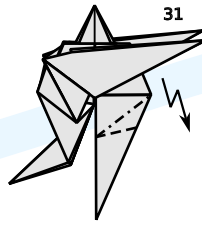




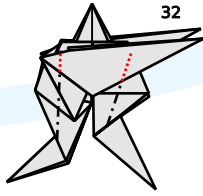
Fold to the right



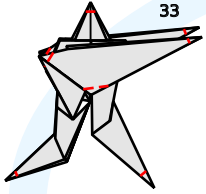
Unfold to step 28



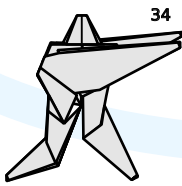
Inside reverse
Zig-Zag fold



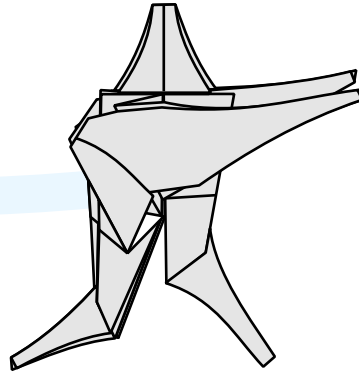
Fold to the inside
(both sides)
The red line indicates
folds in the layer below



Push in various edges
on both sides



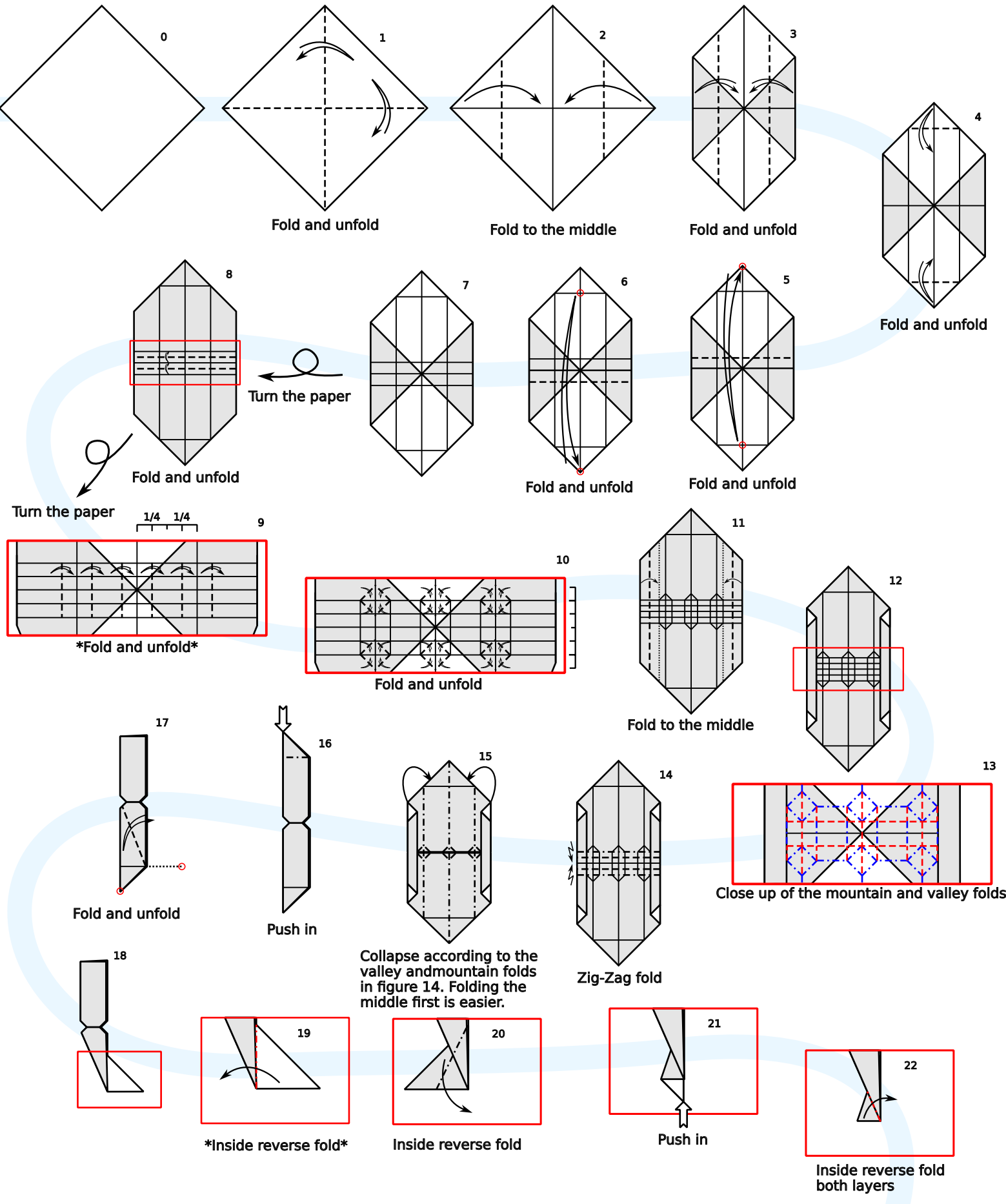
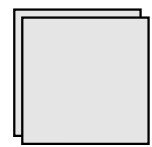
Shaping

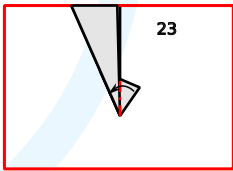


Finished hip bone

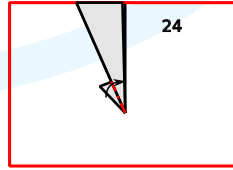
Stegosaurus Back Leg Bones

Papers:
 Left leg: 17x17
 Right leg: 17x17

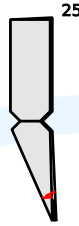




23
Inside reverse fold both layers



24
Inside reverse fold both layers



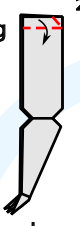
25
Inside reverse fold



26
From this point on the left and right side are folded differently



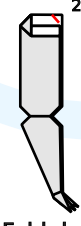
27L
Left leg



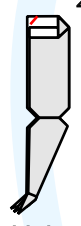
27R
Right leg

Fold the top layer down

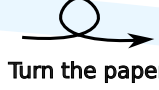
Fold the top layer down



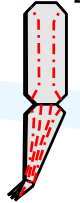
28L
Fold down



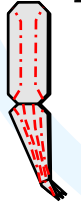
28R
Fold down



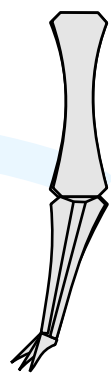
Turn the paper



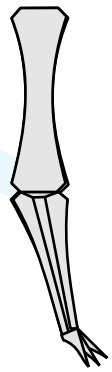
29L
Shaping



29R
Shaping



Finished left leg



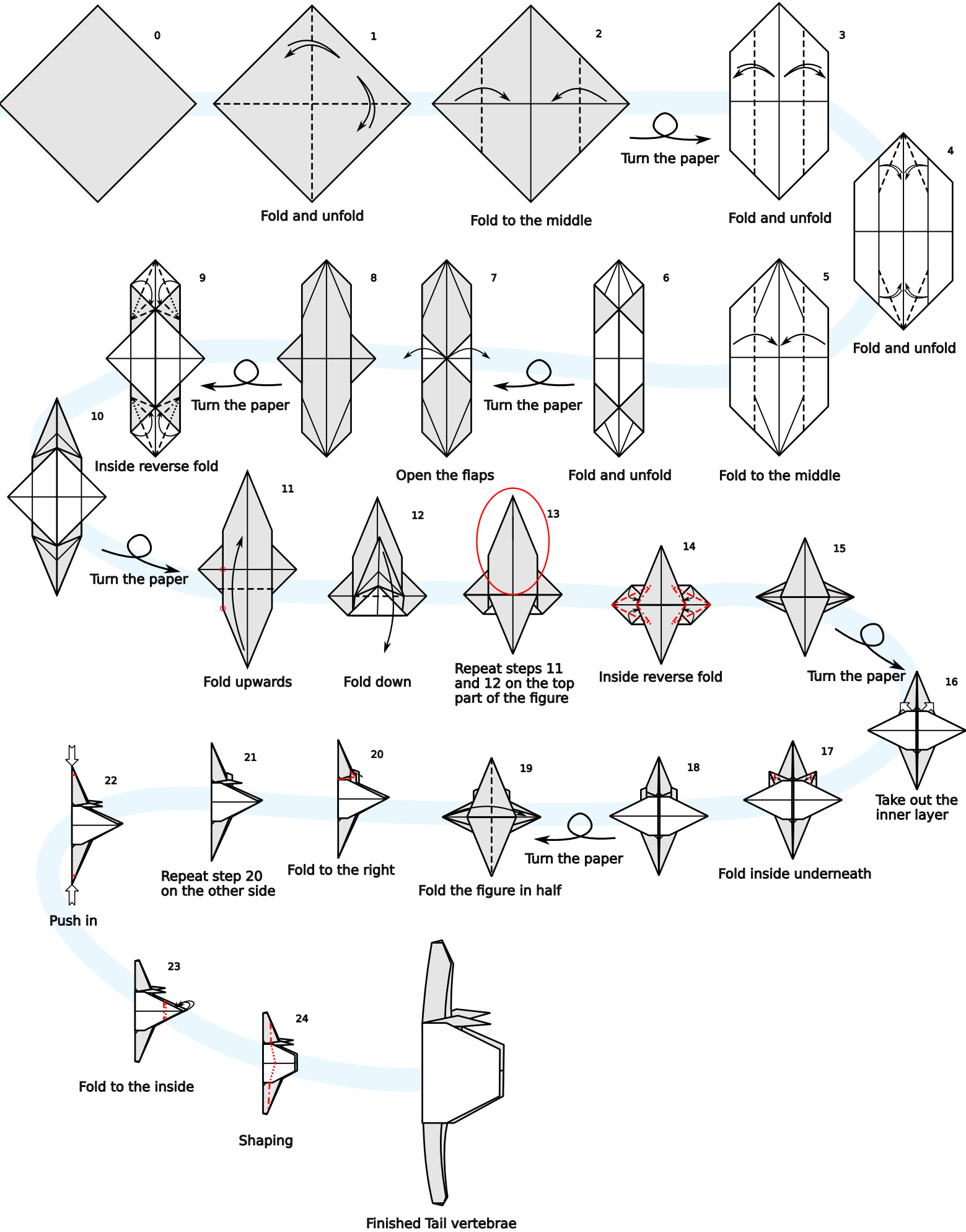
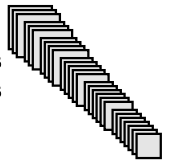
Finished right leg

Turn the paper

Stegosaurus Tail Vertebrae

Papers:

Bones 1-3: 6x6
 Bones 4-6: 5.5x5.5
 Bones 7-10: 5x5
 Bones 11-15: 4.5x4.5
 Bones 16-21: 4x4
 Bones 22-28: 3.5x3.5

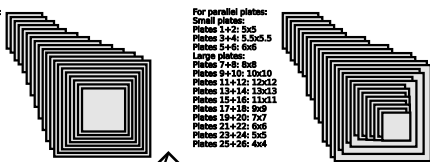


Stegosaurus Back Plates

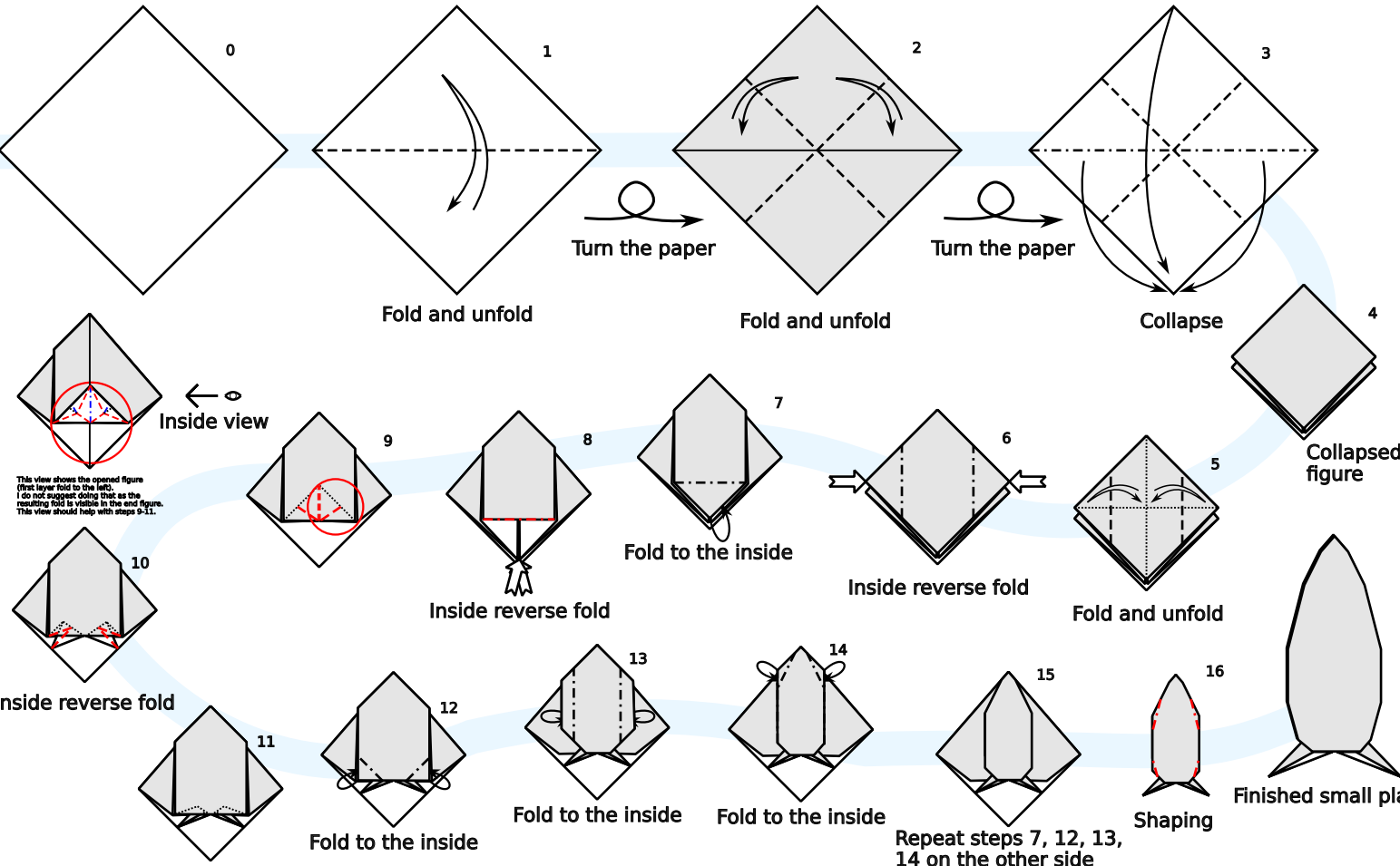
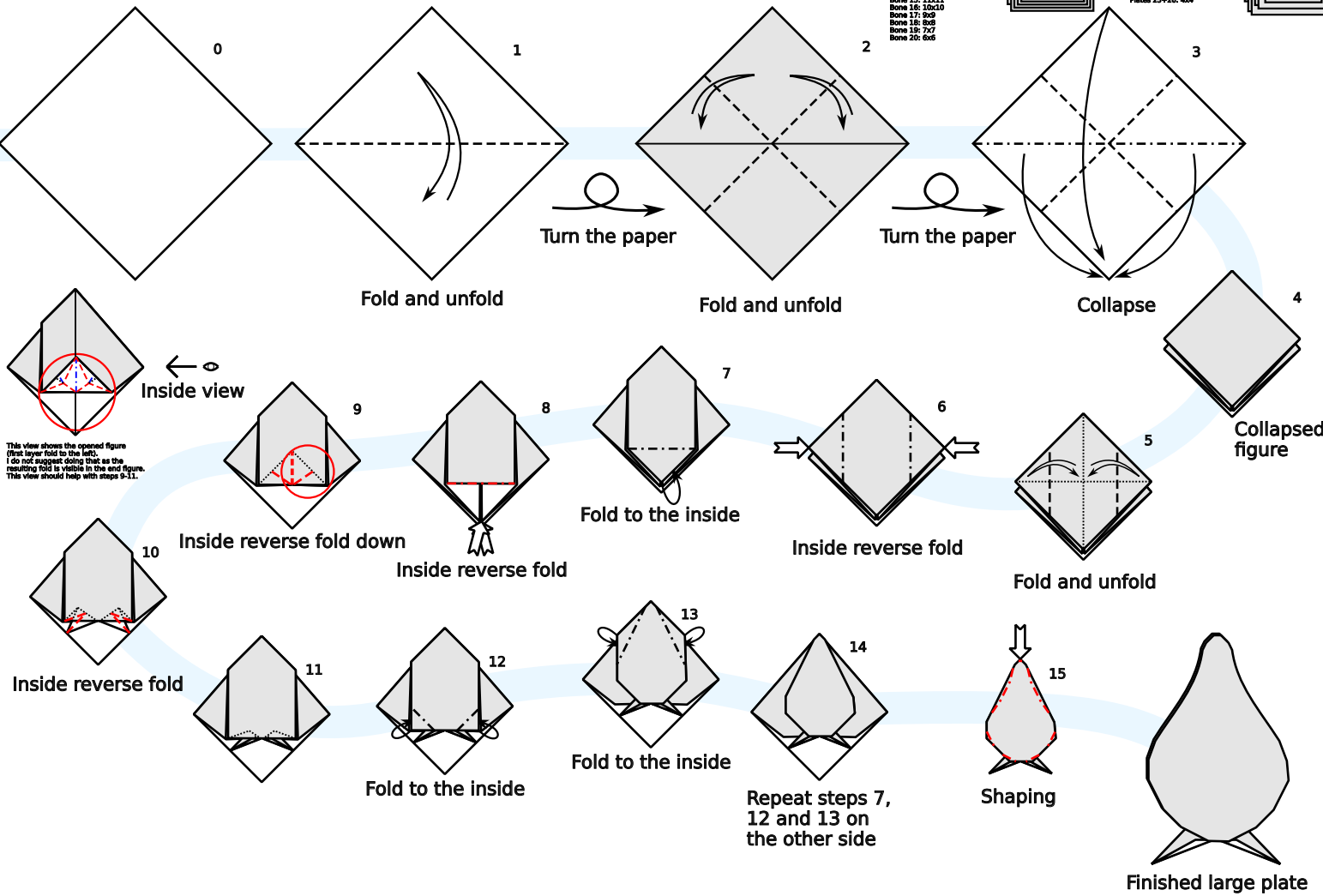
Papers:

For alternating plates:
 Small plates:
 Bones 3-4: 3x5
 Bones 5-6: 5.5x5.5
 Large plates:
 Bone 7: 8x8
 Bone 8: 7x7
 Bone 9: 9x9
 Bone 10: 10x10
 Bone 11: 11x11
 Bone 12: 12.5x12.5
 Bone 13: 13x13
 Bone 14: 12x12
 Bone 15: 11x11
 Bone 16: 10x10
 Bone 17: 9x9
 Bone 18: 8x8
 Bone 19: 7x7
 Bone 20: 6x6

For parallel plates:
 Small plates:
 Plates 1-2: 5x5
 Plates 3-4: 5.5x5.5
 Plates 5-6: 6x6
 Large plates:
 Plates 7-8: 8x8
 Plates 9-10: 10x10
 Plates 11-12: 10x12
 Plates 13-14: 12x13
 Plates 15-16: 11x11
 Plates 17-18: 9x9
 Plates 19-20: 7x7
 Plates 21-22: 6x6
 Plates 23-24: 5x5
 Plates 25-26: 4x4



Note: Having a bit of variation between the plates looks good and gives the model more character.
 In step 1: Not folding the second diagonal line makes further steps slightly harder, but the final plates look better.
 In step 5: Folding the sides not to the exact middle but leaving some space will make the end result wider for a different look.
 If this is done, step 7-15 should still stay the same.
 In step 15: This step can also be folded down further for a more roundish look.

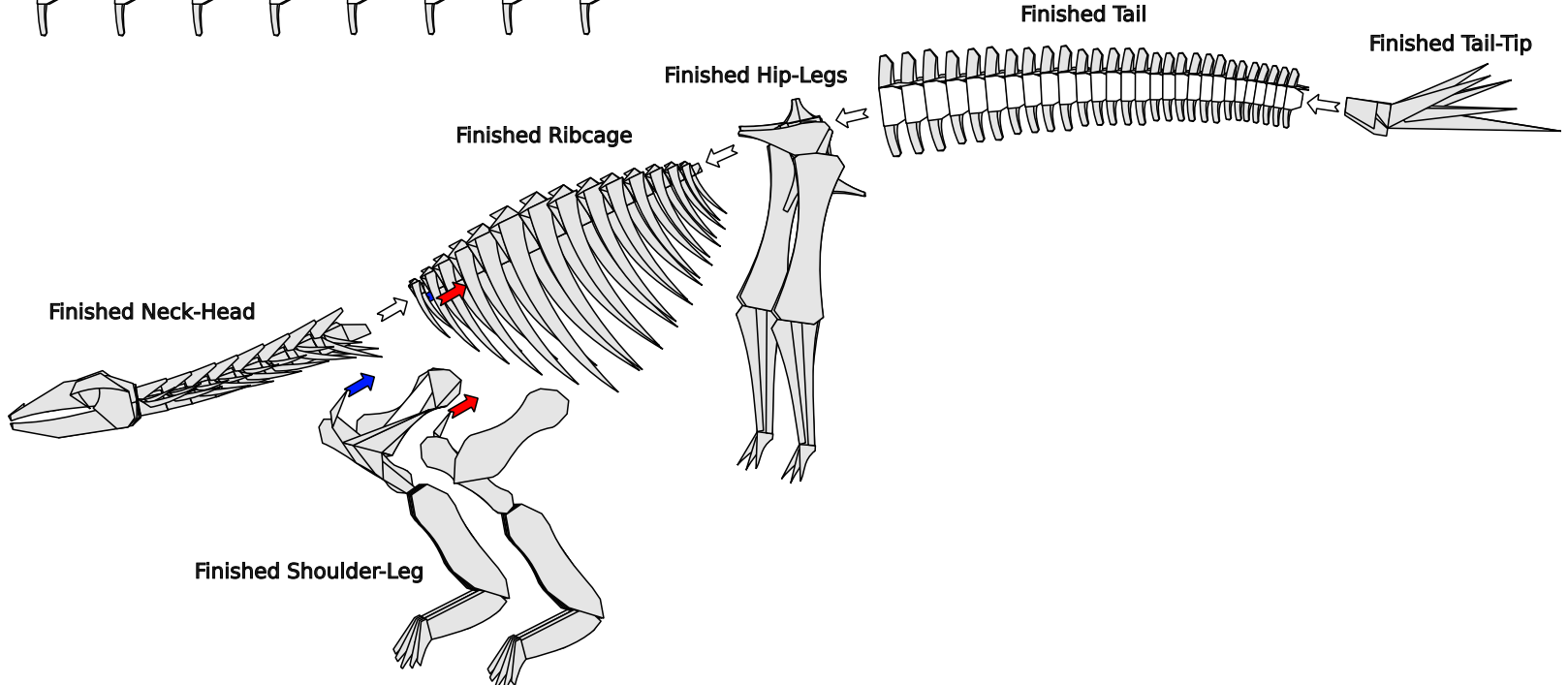
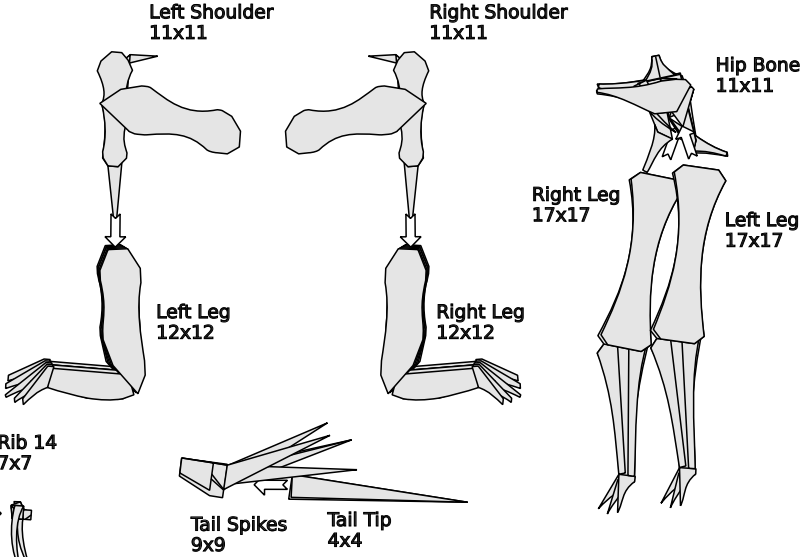
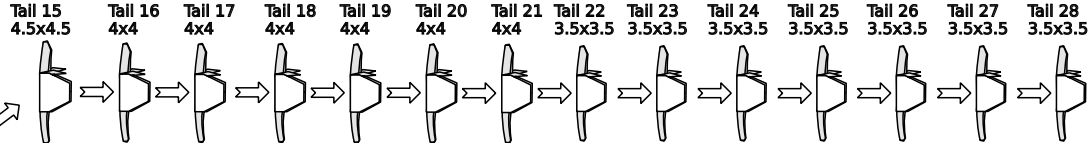
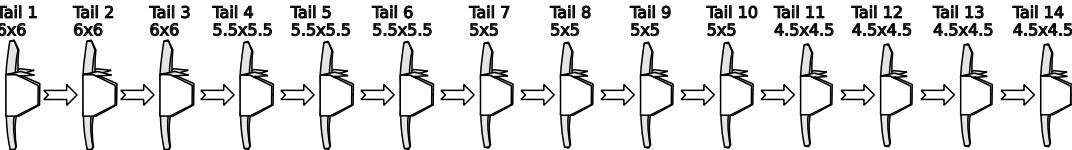
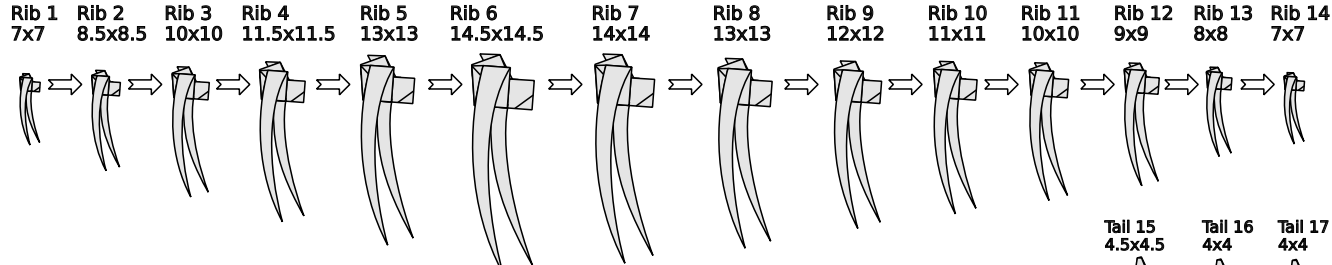
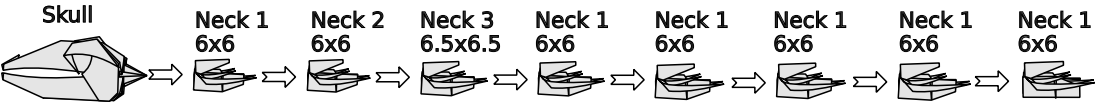


Inside view
 This view shows the opened figure (first layer fold to the left). I do not suggest doing that as the resulting fold is visible in the end figure. This view should help with steps 9-11.

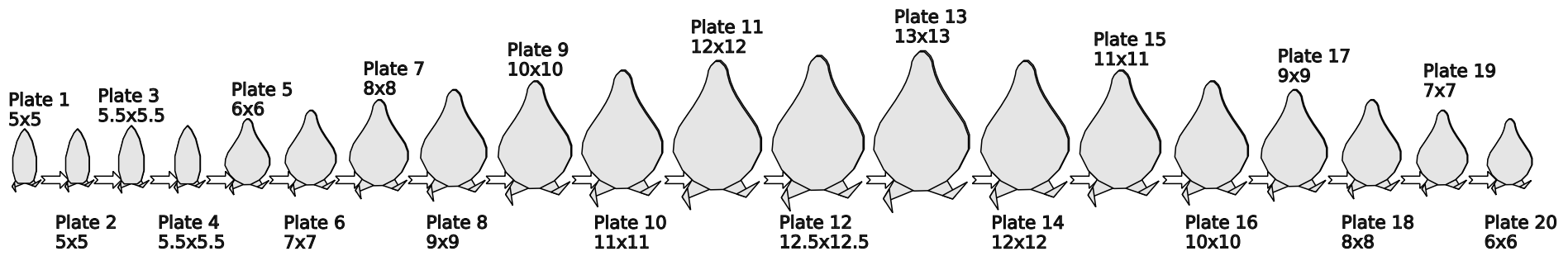
Inside view
 This view shows the opened figure (first layer fold to the left). I do not suggest doing that as the resulting fold is visible in the end figure. This view should help with steps 9-11.

Stegosaurus Skeleton assembling

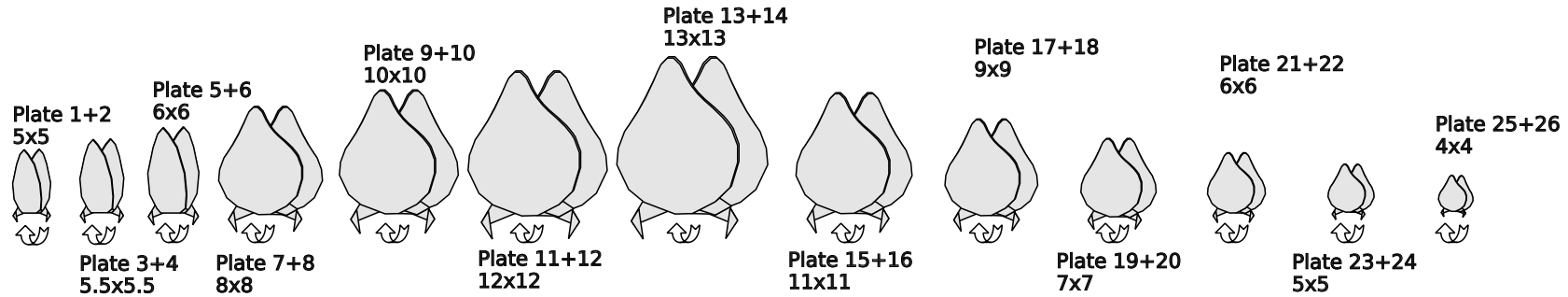
Note: I used thin wires for my model for better stabilization. The parts are glued together.



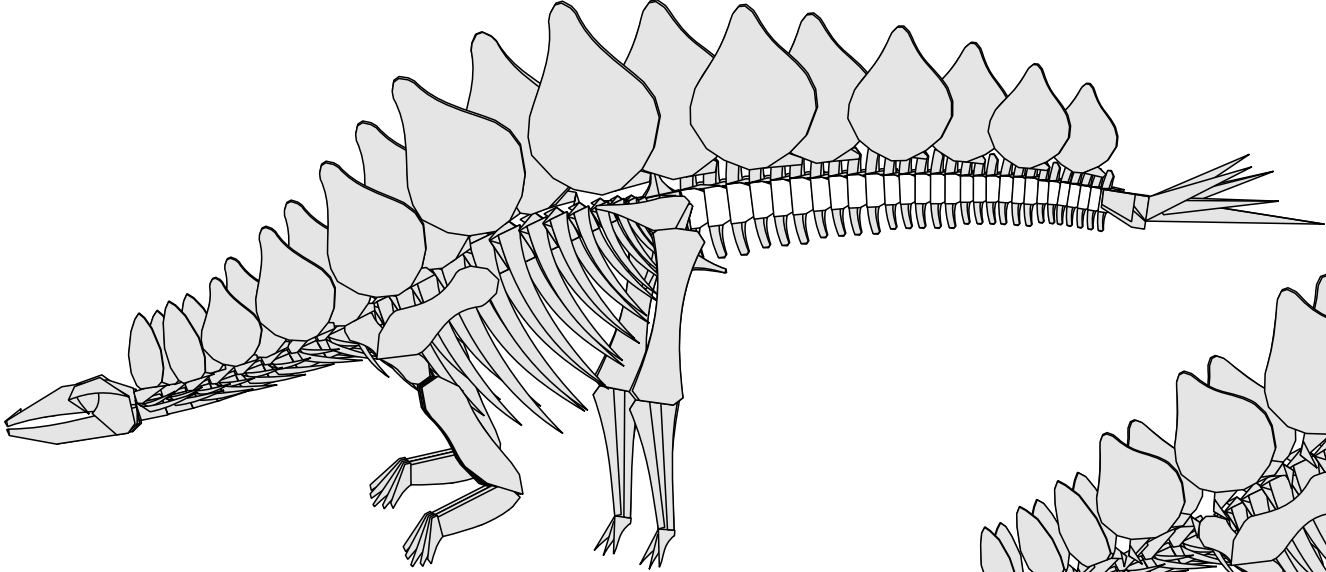
Note: add the shoulder connection to the fourth rib



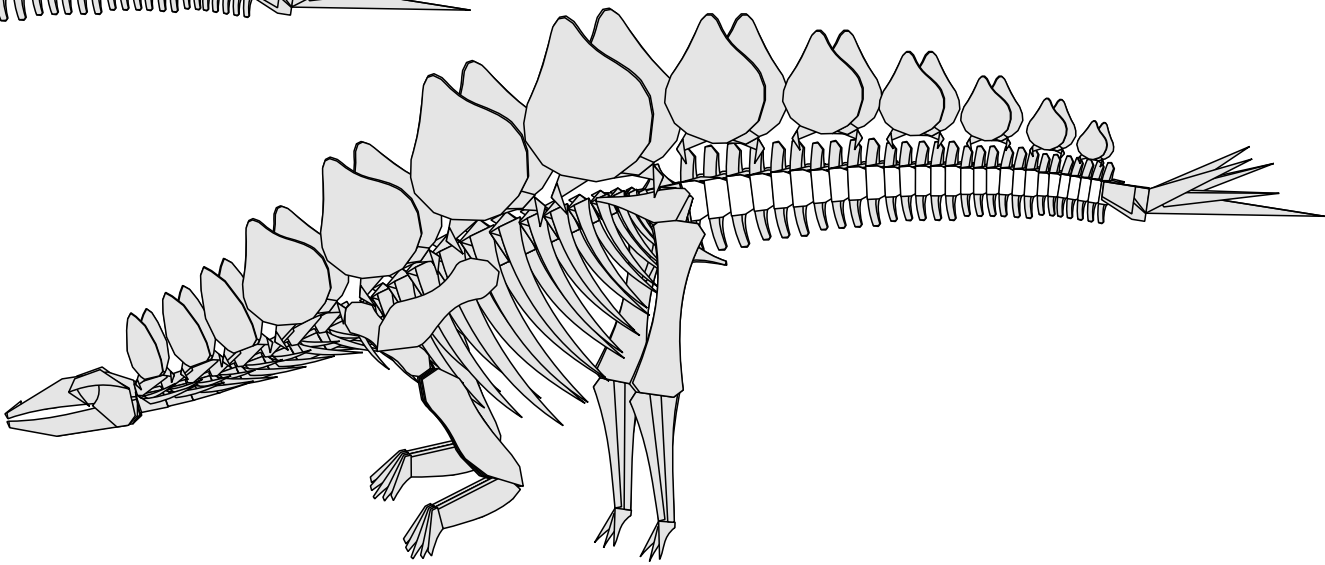
Note: there are two holders for each spike. One is folded down and inserted into the previously assembled skeletons back, the other is glued into the next spike in the row.



Note: similar to the alternating spikes, the parallel ones have one holder folded down and inserted into the assembled skeletons back. The second one is inserted into its parallel, same sized counterpart.



Finished Stegosaurus with alternating plates



Finished Stegosaurus with parallel plates

