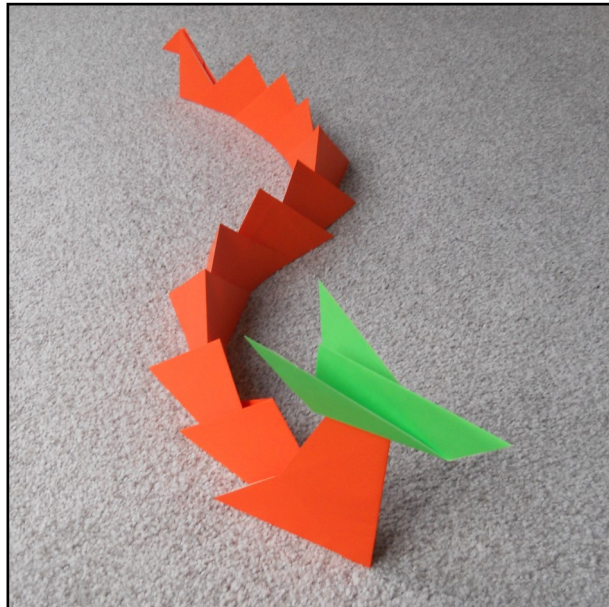


Sea Monster

Designed by David Mitchell

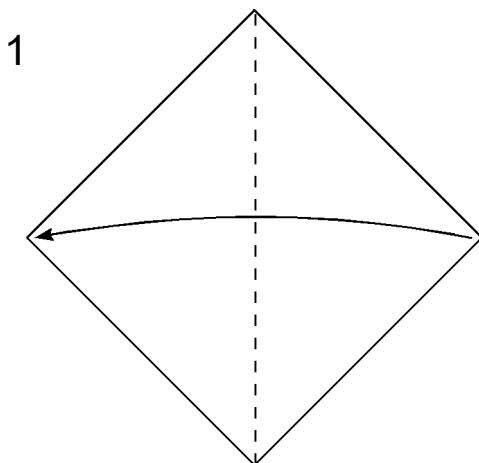
In 2012 I was invited for a full day to a primary school and asked to take an origami mathematics session with each year group in turn so that each of the children would get the opportunity to fold part of a group project.

It was easy to work out what to do with the older age groups but less easy to see what to do with the youngest ones. This design was my solution. I prefolded the head



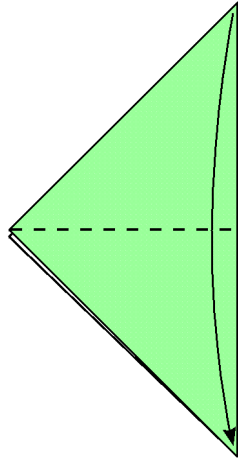
and tail, then, during the session, each of the children folded a hump from a large square cut from A4 paper. They then each came to the front in turn to add their hump to the design, being encouraged to keep to a repeating sequence of colours, red, blue, yellow and green. It worked well, although the colour sequence contained some interesting aberrations, and the local newspaper published a photo of the children with the finished Sea Monster.

Folding the head



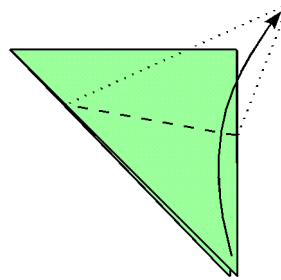
1. If you are using irogami arrange your paper white side up. Fold in half sideways as shown.

2



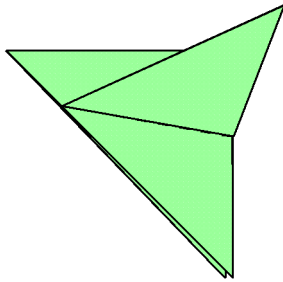
2. Fold in half downwards.

3



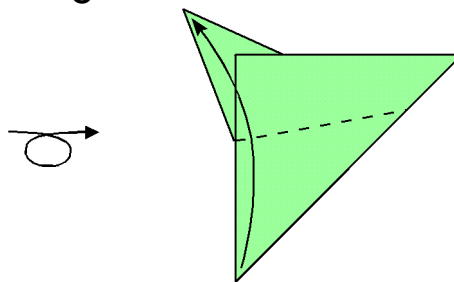
3. Fold the bottom point of the front layer upwards at an angle as shown.

4



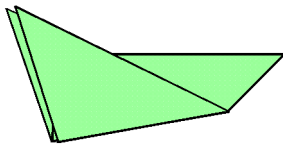
4. Turn over sideways.

5



5. Fold the bottom point of the front layer upwards at an angle in the same way. Make sure the new front layer aligns accurately with the back layer.

6



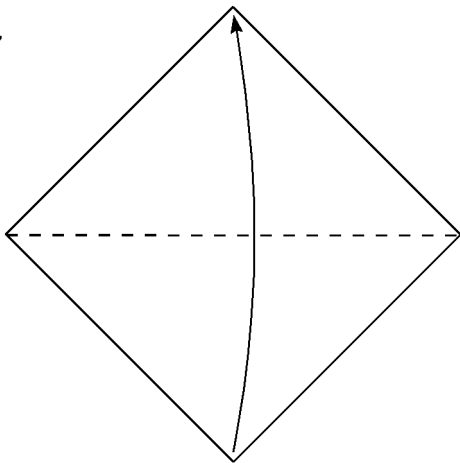
6. The head is finished.

Folding the Neck

The neck is made from two squares of paper.

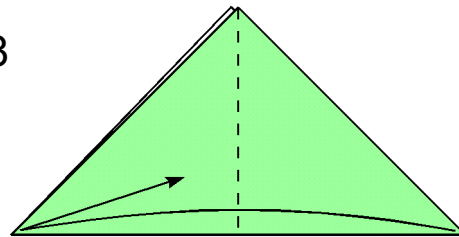
Folding piece 1

7



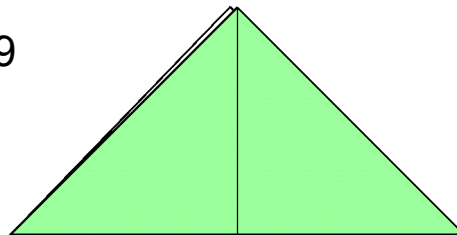
7. Fold in half upwards.

8



8. Fold in half sideways, then unfold.

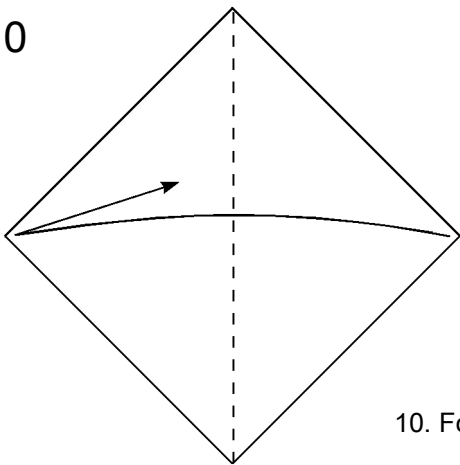
9



9. Piece 1 is finished.

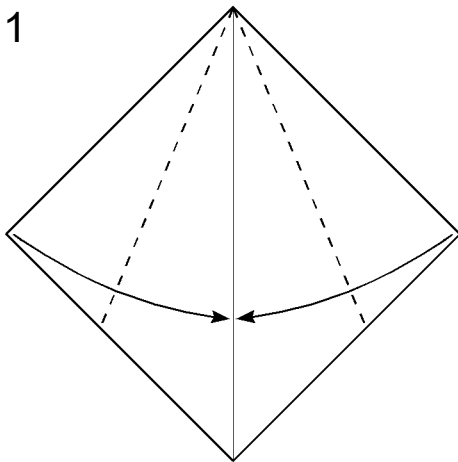
Folding piece 2 and assembling the pieces

10



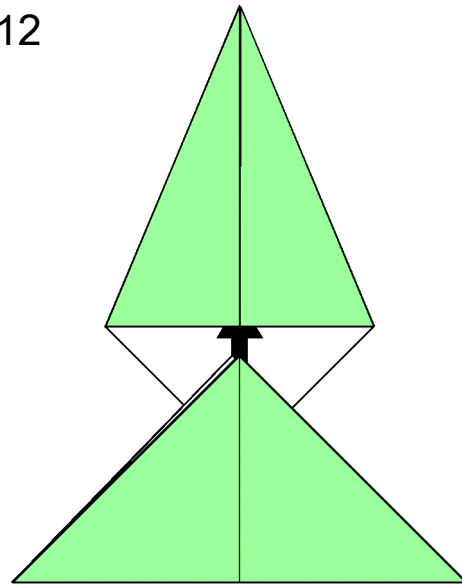
10. Fold in half sideways.

11



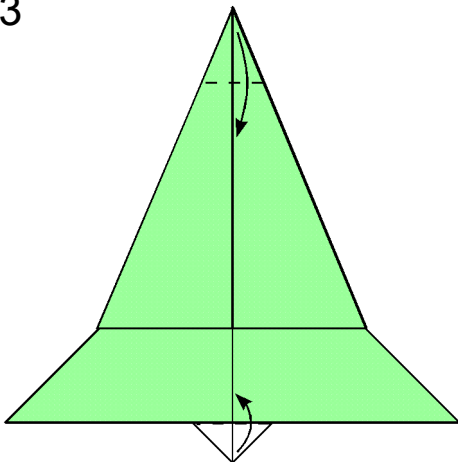
11. Fold both upper sloping edges onto the vertical crease.

12



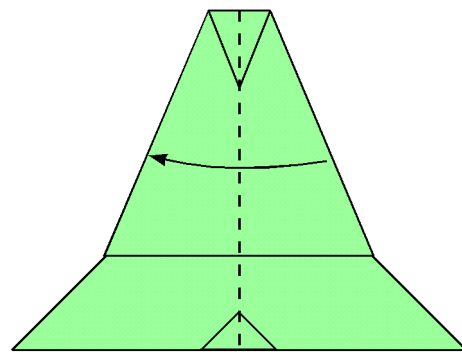
12. Slide piece 1 up inside piece 2 like this, making sure the vertical creases are aligned.

13



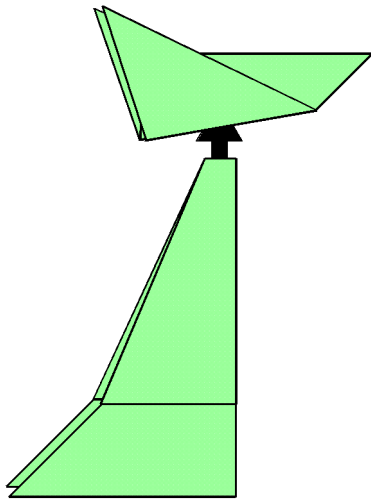
13. Fold the bottom point of the back layer upwards along the line of the bottom of the other layers. Fold the top point Downwards as shown. This fold is made by eye. You can vary the position of this fold to adjust the height of the neck.

14



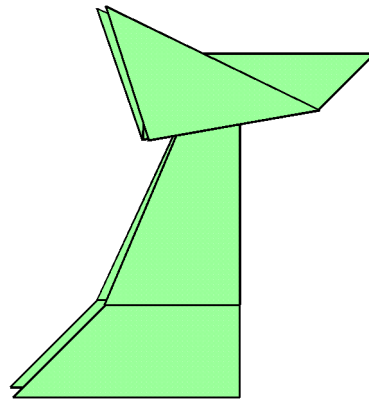
14. Make sure the vertical creases are still aligned then fold in half sideways to lock the pieces together.

15



15. Place the head on top of the neck.

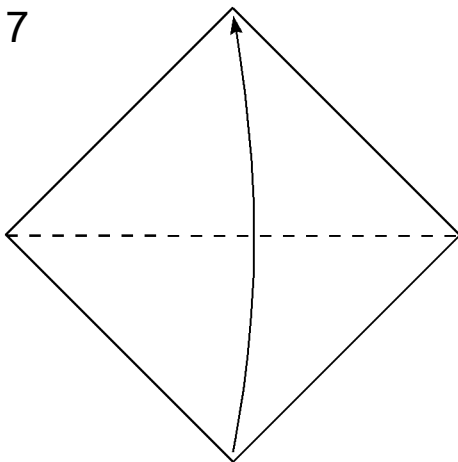
16



16. The head and neck of your Sea Monster are finished.

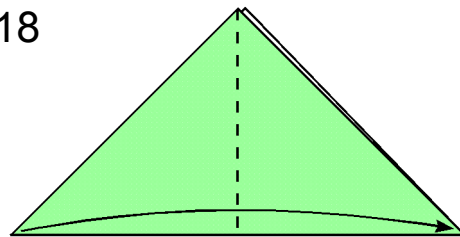
Folding the tail

17



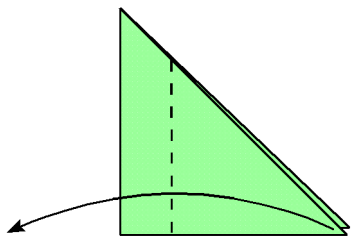
17. Fold in half upwards.

18



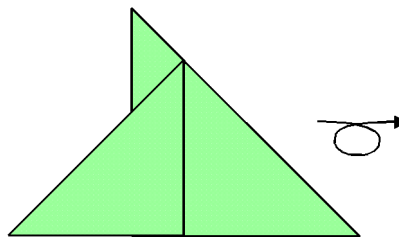
18. Fold in half sideways.

19



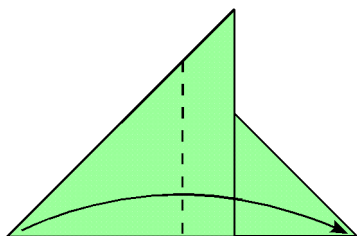
19. Fold the right point of the front layer across to the left like this.

20



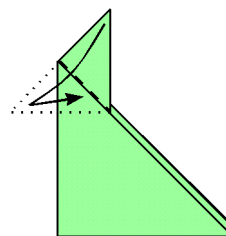
20. Turn over sideways.

21



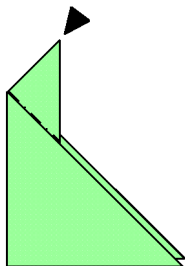
21. Fold the left point of the front flap across to the right like this.

22



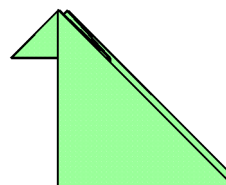
22. Fold the top point diagonally downwards to the left along the line of the sloping edge of the other layers, then unfold.

23



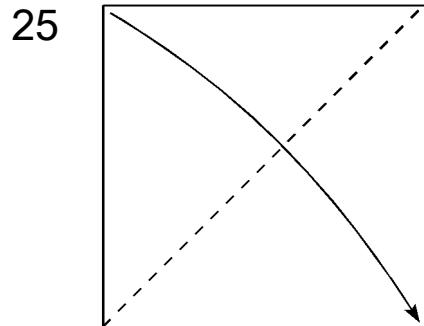
23. Turn the top point inside out in between the other layers using the existing creases.

24

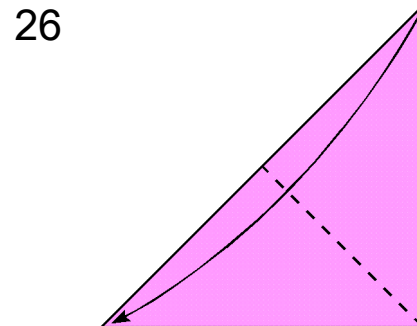


24. The tail is finished.

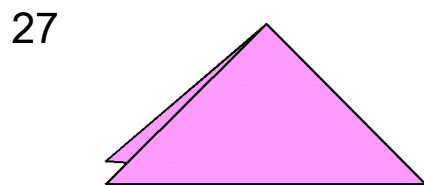
Folding the humps



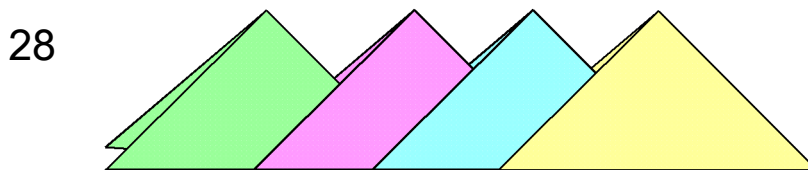
25. Fold in half diagonally as shown.



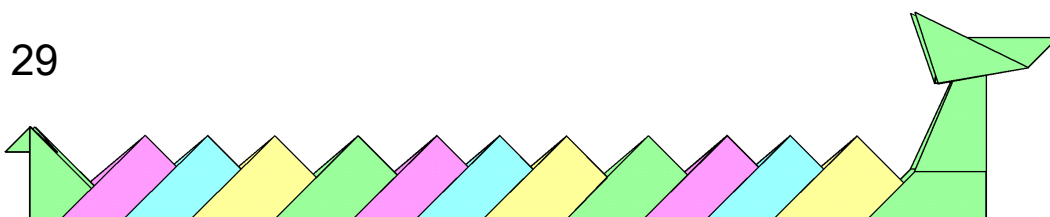
26. Fold in half diagonally in the opposite direction.



27. The first hump is finished.



28. Make several other humps and arrange them inside each other.



29. Once the head and tail have been added the finished Sea Monster will look something like this.

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