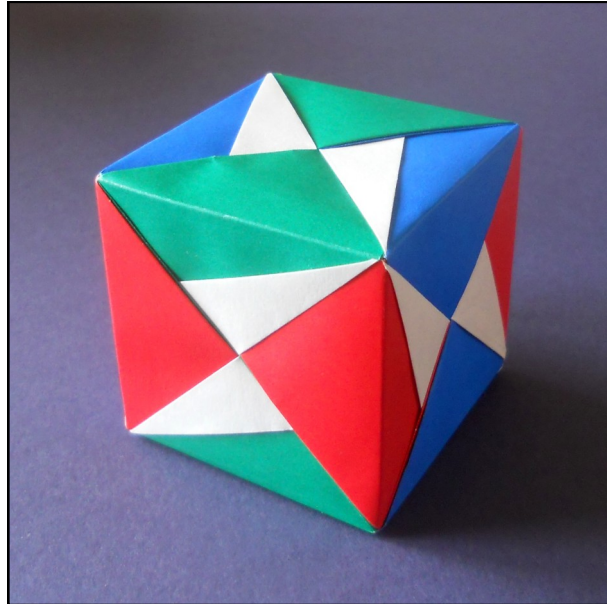


Darwin Single, Double and Triple Flash designs

Designed by David Mitchell

These diagrams show you how to fold the Darwin Single, Double and Triple Flash modules and how to use them to make 6-part cubes.

Like all other parallelogram modules these modules can also be used to make more complex cubes, cube combinations and silverhedra.

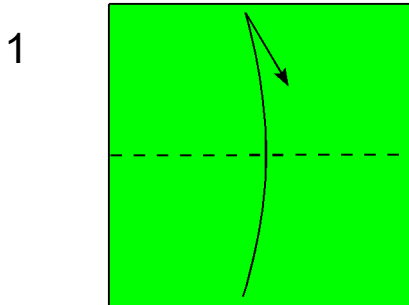


The modules differ in that the Darwin Double Flash module is symmetric while the Darwin Single Flash and Triple Flash modules are not.

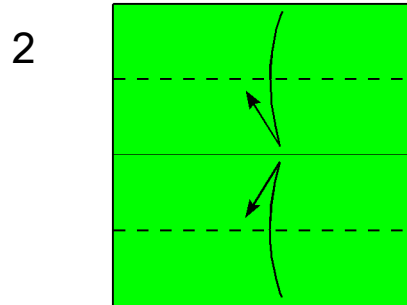
The Single and Double Flash modules were designed in 2001, the Triple Flash module in 2015. The four flash equivalent of these designs is diagrammed separately as the Darwin Cyclone module.

Both modules are folded from squares which are first divided into a 3x3 grid. You will need another square of the same size to use as a template to help you achieve this division.

The Darwin Double Flash Module and 6-part Cube



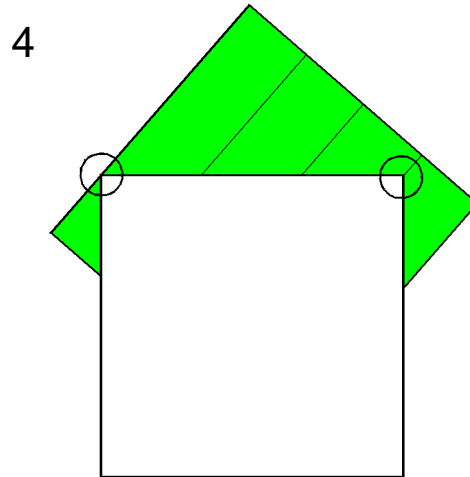
1. Fold the template in half upwards, crease, then unfold.



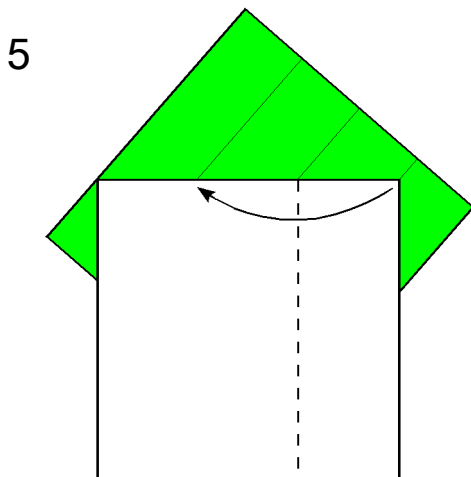
2. Fold both the top and bottom edges to the middle, crease, then unfold.



3. The template is finished.

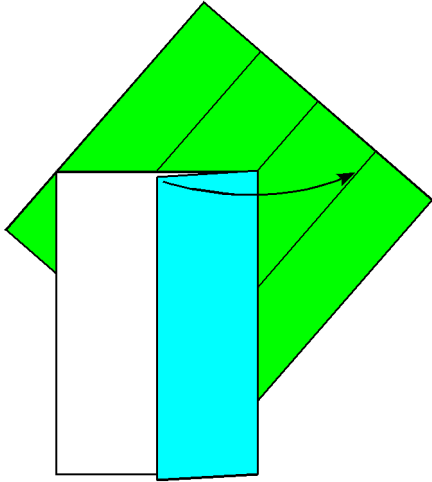


4. Begin by laying your square on top of the template like this, making sure the corners are aligned to the edge of the template and the crease in the way marked with circles here.



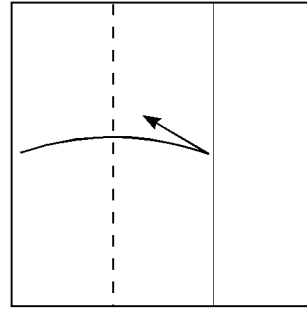
5. Fold the right hand corner inwards as shown. Make sure the two squares don't slip out of alignment as you make this fold.

6



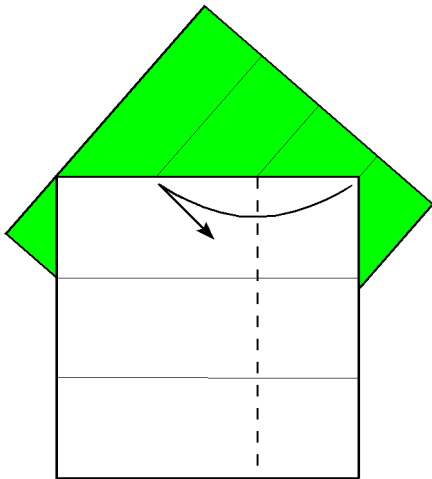
6. Open out the fold made in step 5 and remove the square from the template.

7



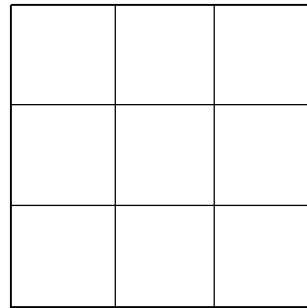
7. Fold the left hand edge onto the crease made in step 5, crease, then unfold.

8



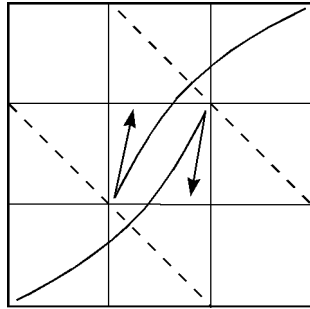
8. Your paper is now divided into thirds. To divide the paper into thirds in the other direction as well, rotate the paper through ninety degrees and repeat steps 4 through 7.

9



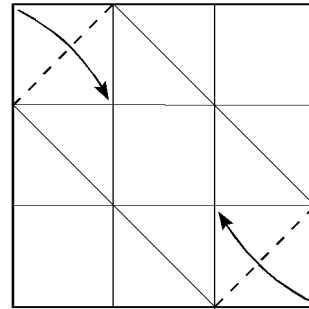
9. This is the result. The paper is now divided into a 3x3 grid of smaller squares.

10



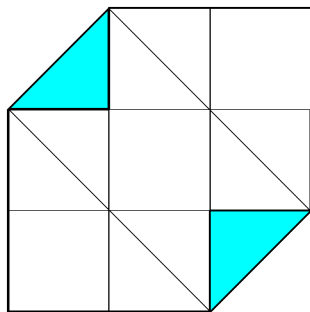
10. Fold the top right corner inwards as shown, then unfold. Do the same thing with the bottom left corner.

11



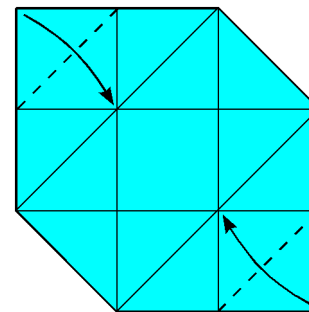
11. Fold two opposite corner squares in half diagonally inwards as shown.

12



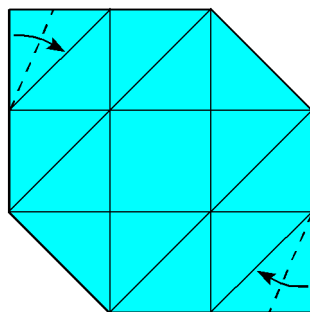
12. Turn over sideways.

13



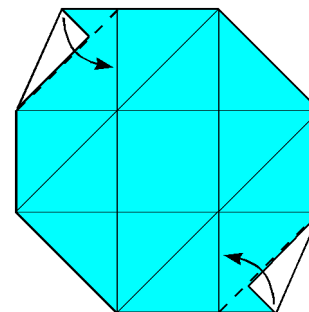
13. Fold the other two corner squares diagonally in half inwards as well.

14



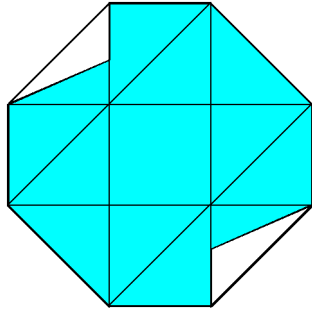
14. Fold the left edge of both remaining corner square onto the crease you made in step 13.

15



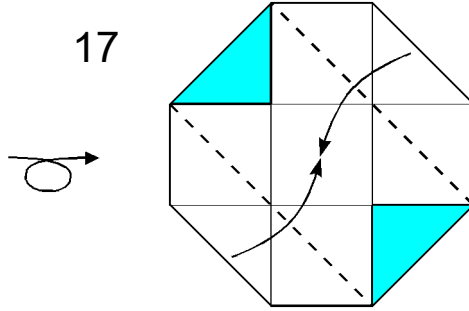
15. Fold the top left and bottom right corners inwards using the creases you made in step 13.

16



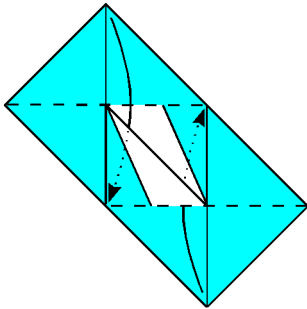
16. Turn over sideways.

17



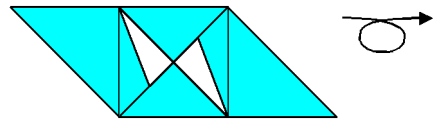
17. Use the creases made in step ten to fold the bottom left and top right sloping edges inwards.

18



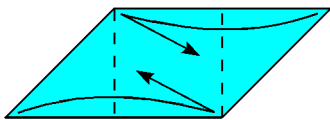
18. Fold the top and bottom corners inwards underneath the central flaps using the existing creases.

19



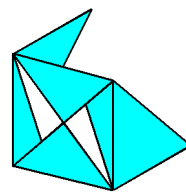
19. This is the basic Darwin Double Flash module. Turn over sideways to configure as a module for a 6-part cube..

20



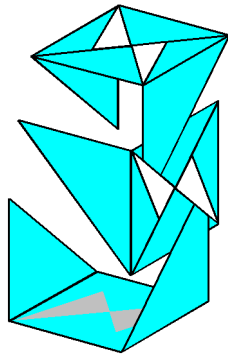
20. Fold both the right and left points inwards like this then unfold to right angles.

21



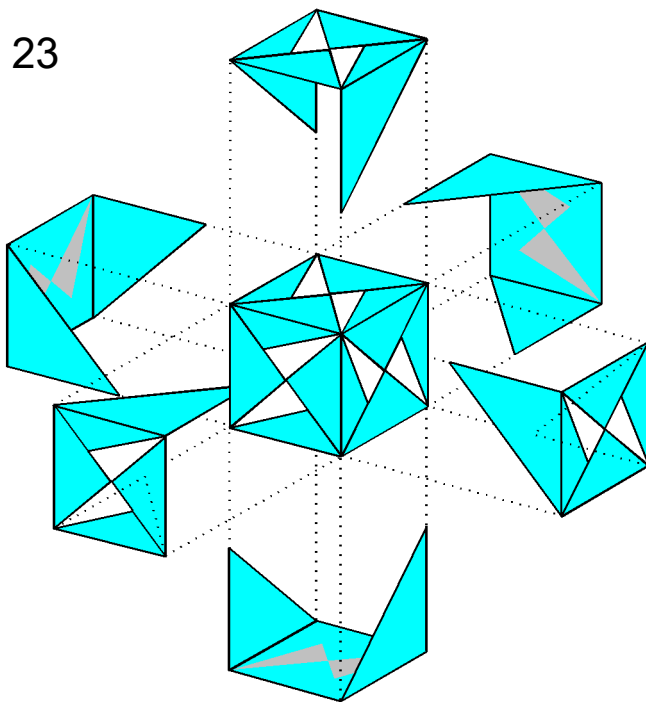
21. The finished module will look like this. Make six.

22



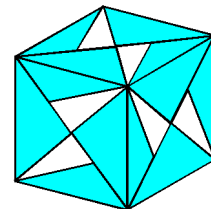
22. Three modules go together to form one face of the cube like this ...

23



23. ... and all six modules like this.

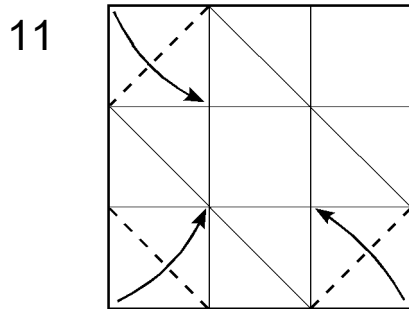
24



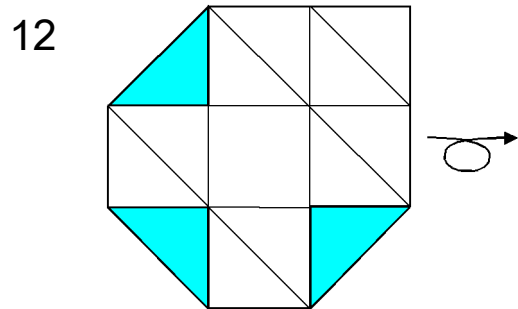
24. The finished Darwin Double Flash Cube looks like this.

The Darwin Single Flash Module and 6-part Cubes

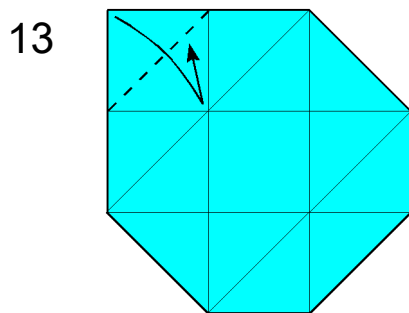
Begin by following steps 1 through 10 of the instructions for the Darwin Double Flash module.



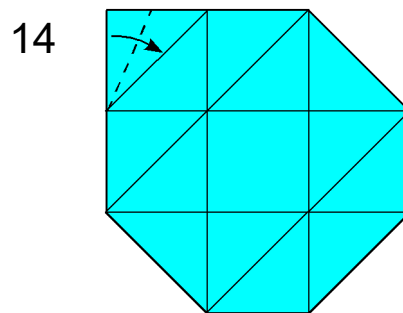
10. Fold three of the four corner squares in half inwards as shown.



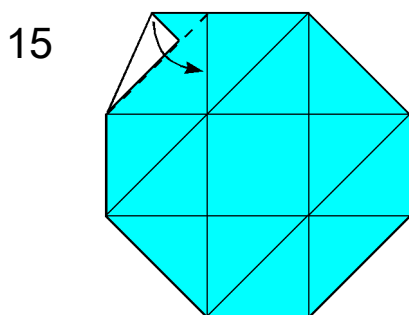
12. Turn over sideways.



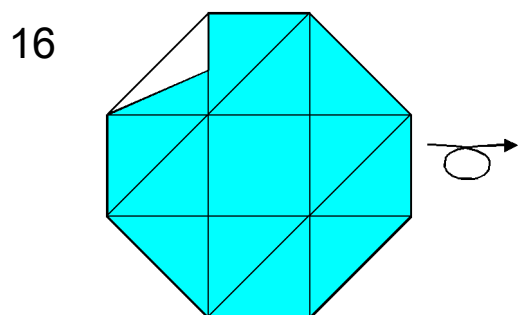
13. Fold the fourth corner square in half inwards as well, then unfold.



14. Fold the left edge of the top left corner square onto the crease made in step 13.

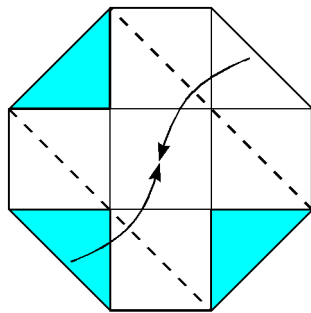


15. Fold the top left corner inwards using the existing crease.



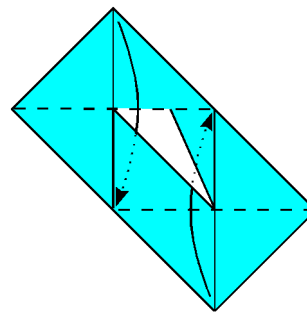
16. Turn over sideways.

17



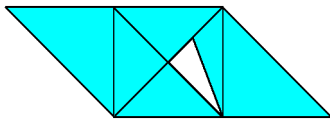
17. Fold the top right and bottom left edges inwards using the existing creases.

18



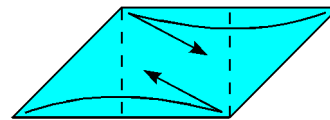
18. Fold the top and bottom corners inwards underneath the central flaps using the existing creases.

19



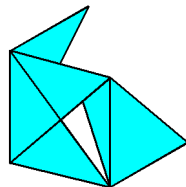
19. This is the basic Darwin Single Flash module. Turn over sideways to configure as a module for a 6-part cube..

20



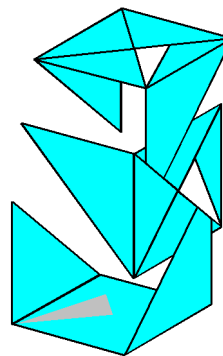
20. Fold both the right and left points inwards like this then unfold to right angles.

21



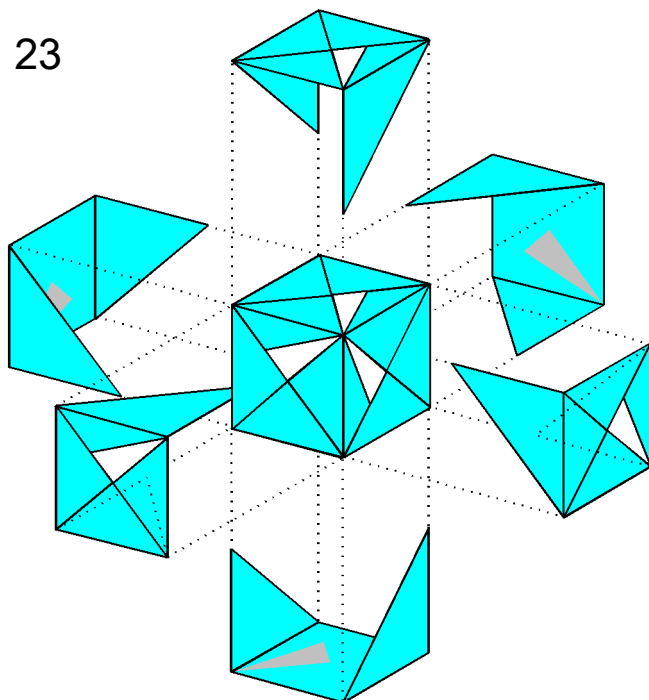
21. The finished module will look like this. Make six.

22

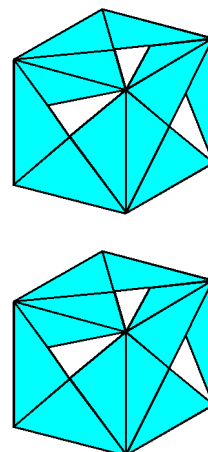


22. Three modules go together to form one face of the cube like this ...

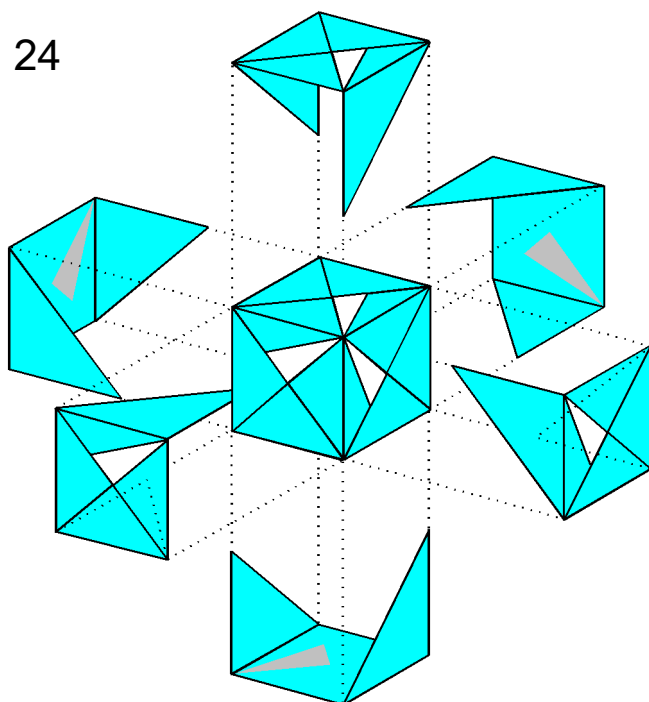
23



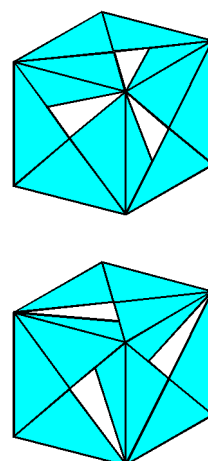
23. The six modules will go together like this to create a Darwin Single Flash Cube that is identical when viewed from front and back.



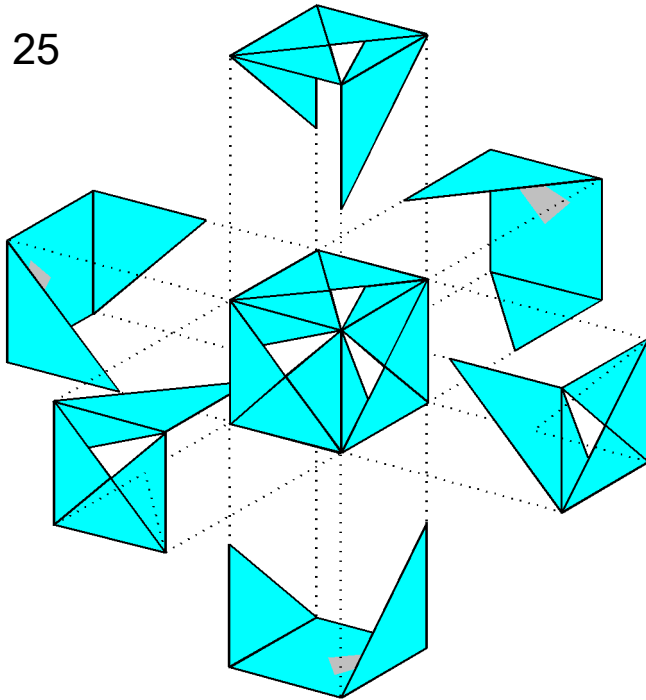
24



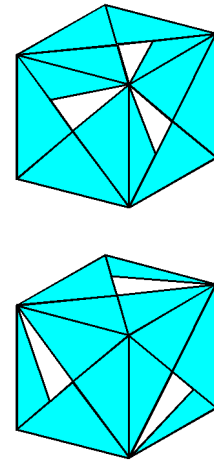
24. It is also possible to put the modules together to produce cubes that look different from either aspect like this ...



25



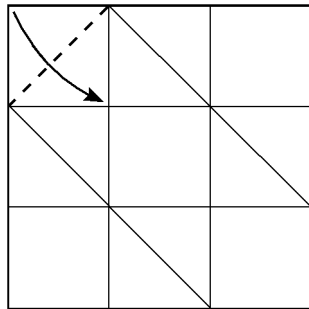
25. ... or like this.



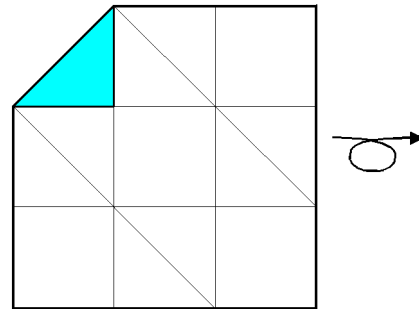
The Darwin Triple Flash Module and 6-part Cube

Begin by following steps 1 through 10 of the instructions for the Darwin Double Flash module.

11



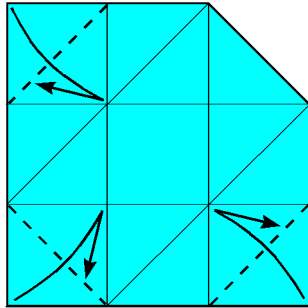
12



10. Fold the top left corner square in half inwards as shown.

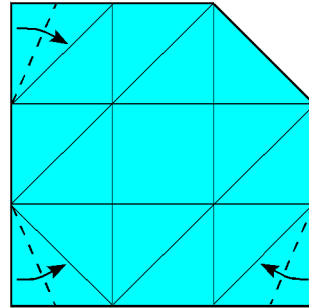
12. Turn over sideways.

13



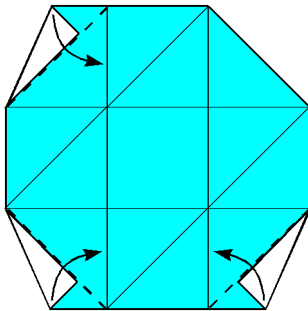
13. Fold the other three corner squares in half inwards as well, then unfold.

14



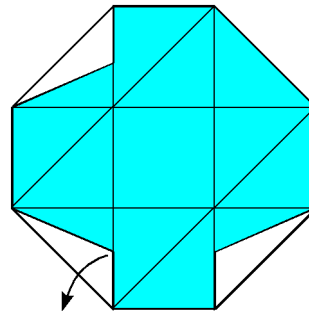
14. Make these three tiny folds as shown. Picture 15 shows what the result should look like.

15



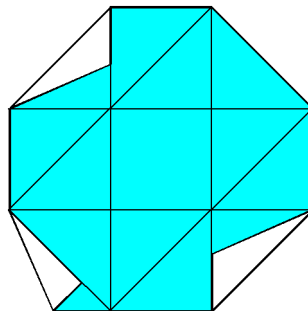
15. Fold these three corners inwards again using the creases you made in step 13.

16



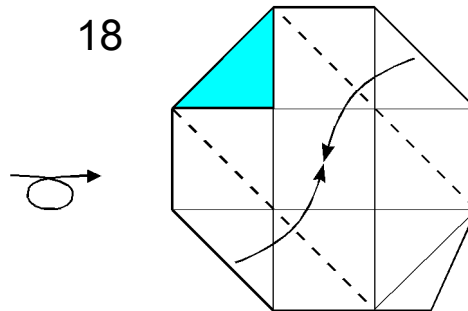
16. Open out the bottom left front flap.

17



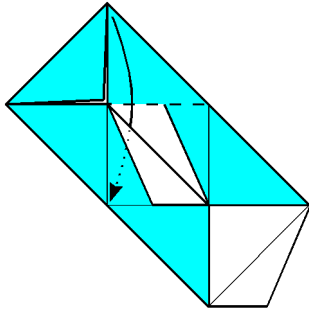
17. Turn over sideways.

18



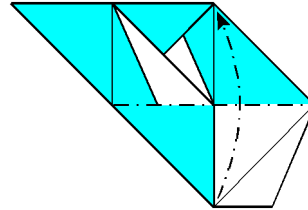
18. Fold the top right and bottom left edges inwards using the existing creases.

19



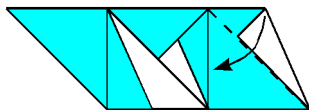
19. Fold the top corner downwards underneath the layers using the existing crease.

20



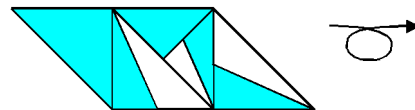
20. Fold the bottom corner upwards behind using the existing crease.

21



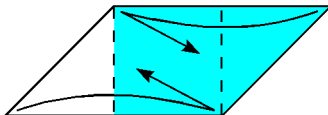
21. Fold the top right corner inwards in front of the other layers using the existing crease.

22



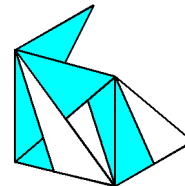
22. This is the basic Darwin Triple Flash module. Turn over sideways to configure as a module for a 6-part cube.

23



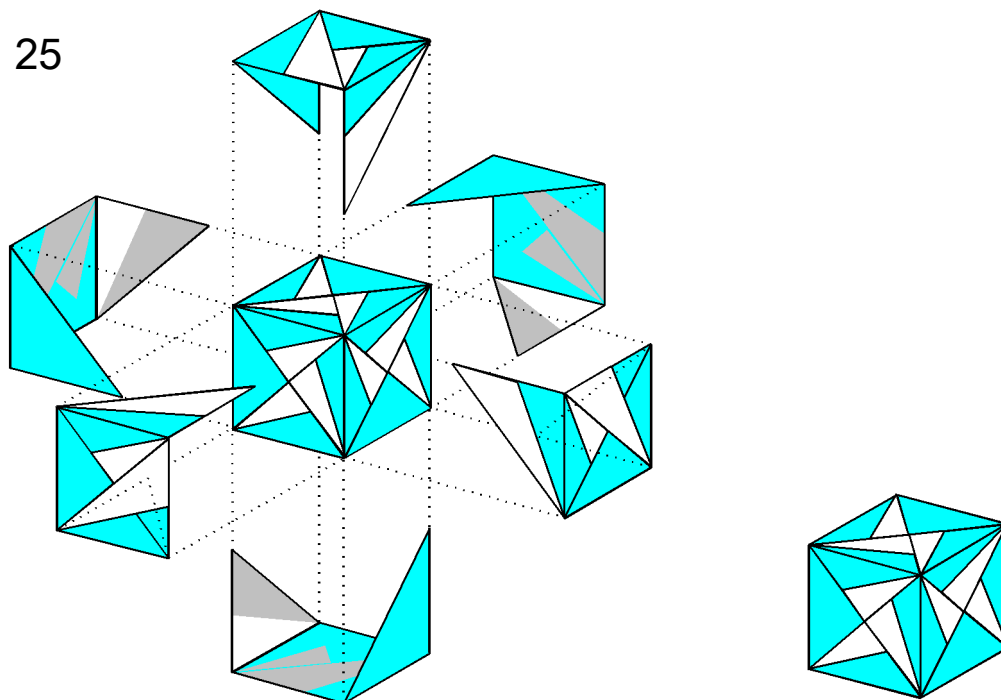
23. Fold both the right and left points inwards like this then unfold to right angles.

24



24. The finished module will look like this. Make six.

25



25. The six modules go together like this to form a Darwin Triple Flash Cube.

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