

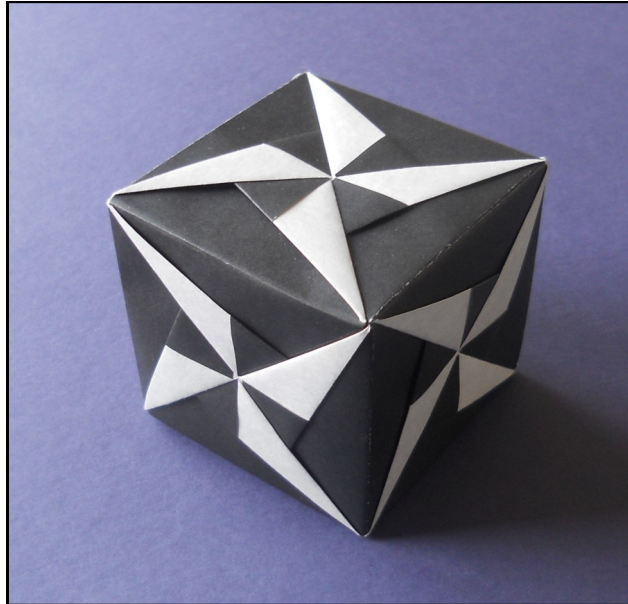
# Darwin Lightning Designs

Designed by David Mitchell

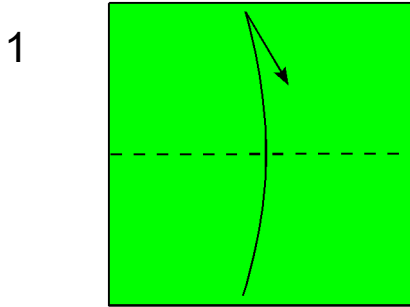
These diagrams show you how to fold the Darwin Lightning module and how to use it to create a 6-part cube.

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

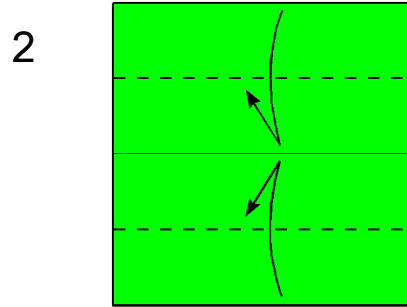
When I originally designed and published this cube in 2001 I called it Windmill Cube no 3 but it seems to me that the Darwin Lightning Cube is a much better name.



The Darwin Lightning module is folded from a square which is 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.



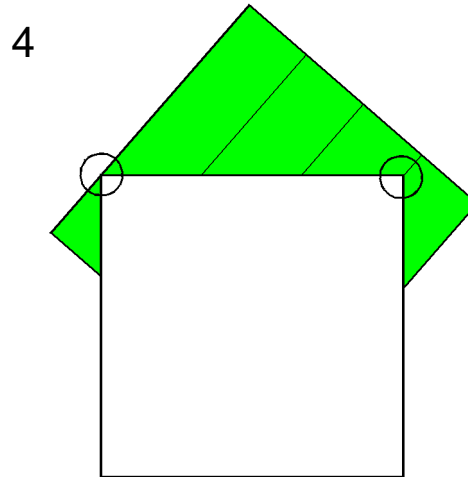
1. Fold the template in half upwards, crease, then unfold.



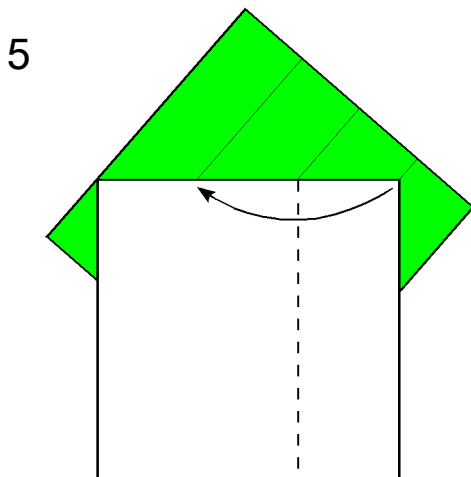
2. Fold both the top and bottom edges to the middle, crease, then unfold.



3. The template is finished.

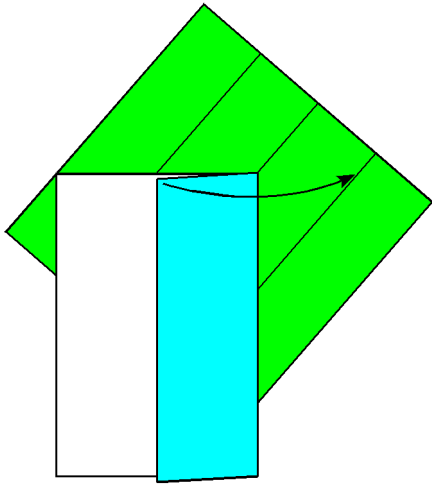


4. Begin by laying your square on top of the template like this, making sure the corners are aligned to the edge of the template and the crease in the way marked with circles here.



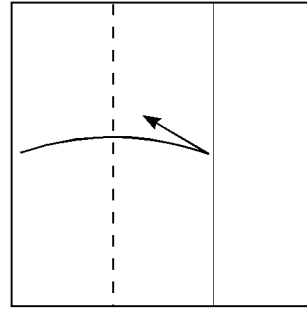
5. Fold the right hand corner inwards as shown. Make sure the two squares don't slip out of alignment as you make this fold.

6



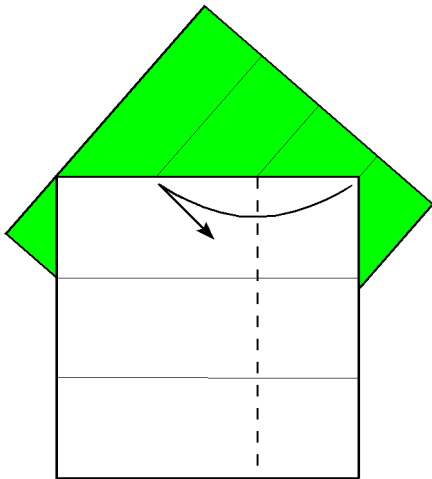
6. Open out the fold made in step 5 and remove the square from the template.

7



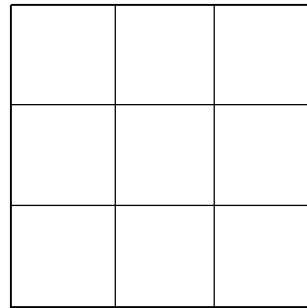
7. Fold the left hand edge onto the crease made in step 5, crease, then unfold.

8



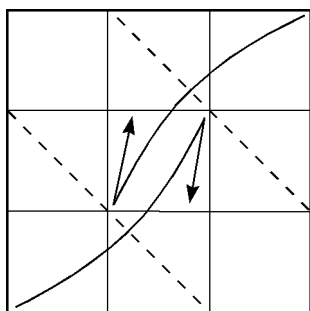
8. Your paper is now divided into thirds. To divide the paper into thirds in the other direction as well, rotate the paper through ninety degrees and repeat steps 4 through 7.

9



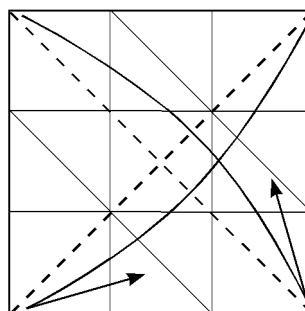
9. This is the result. The paper is now divided into a 3x3 grid of smaller squares.

10



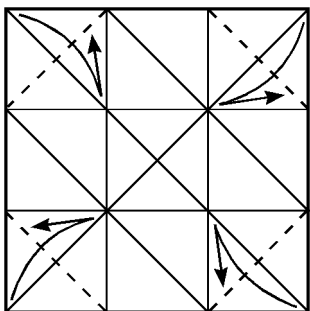
10. Fold the top right corner inwards as shown, then unfold. Do the same thing with the bottom left corner.

11



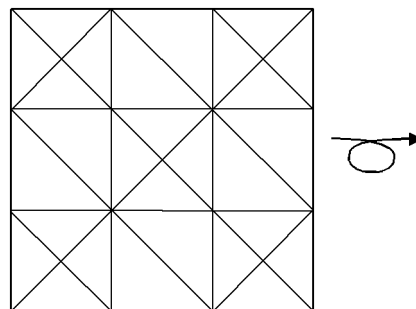
11. Fold in half diagonally then unfold in both directions.

12



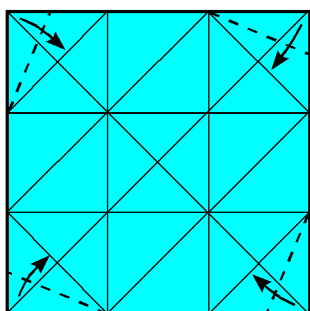
12. Fold all four corners inwards as shown then unfold.

13



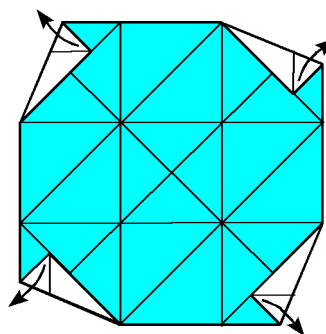
13. Turn over sideways.

14

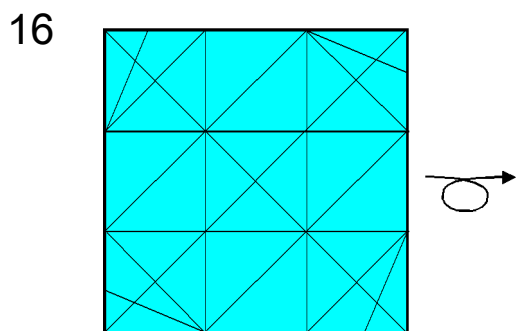


14. Fold all four corners inwards again like this, using the creases made in step 12 to locate the folds.

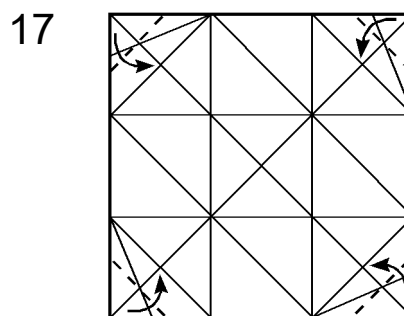
15



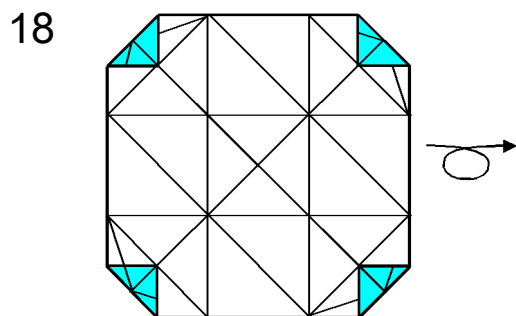
15. Open out the folds made in step 14.



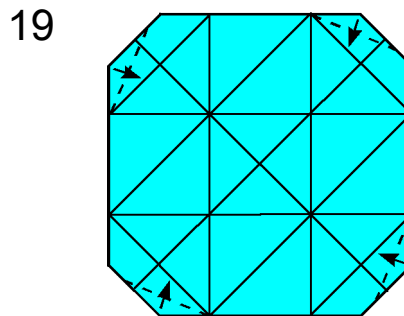
16. Turn over sideways.



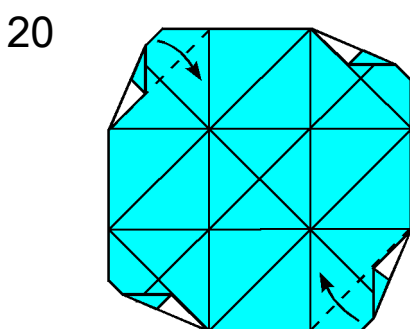
17. Fold all four corners inwards for a third time using the points where the diagonals intersect with the folds made in step 12 to locate the folds.



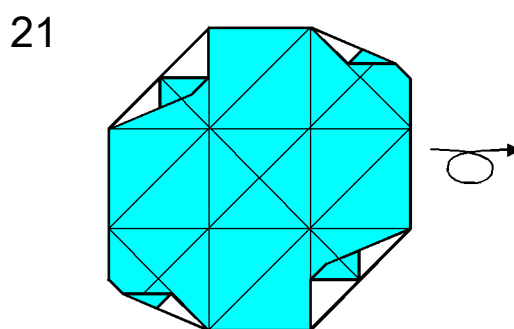
18. Turn over sideways again.



19. Make these four tiny folds using the creases you made in step 14.

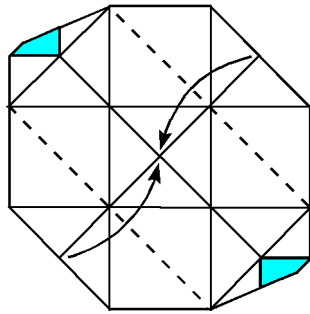


20. Fold all four corners inwards again using the creases you made in step 12.



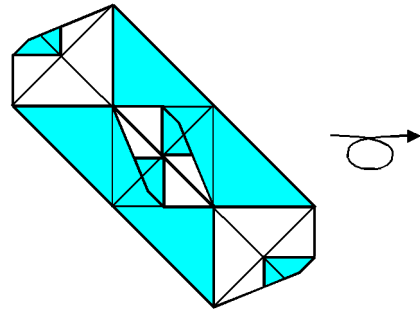
21. Turn over sideways.

22



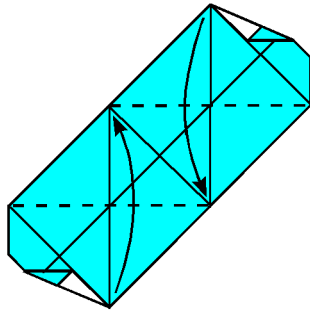
22. Fold the top right and bottom edges inwards using the existing creases.

23



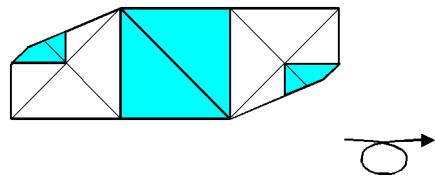
23. Turn over sideways.

24



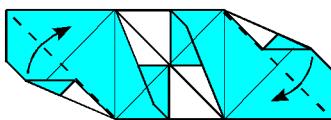
24. Fold the top and bottom corners inwards using the existing creases.

25



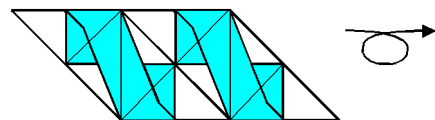
25. Turn over sideways.

26



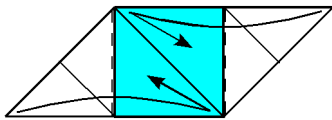
26. Fold both outside edges inwards diagonally using the existing creases.

27



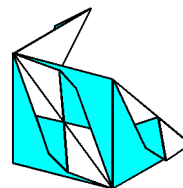
27. This is the basic module. Turn over sideways to configure it to make a 6-part Cube..

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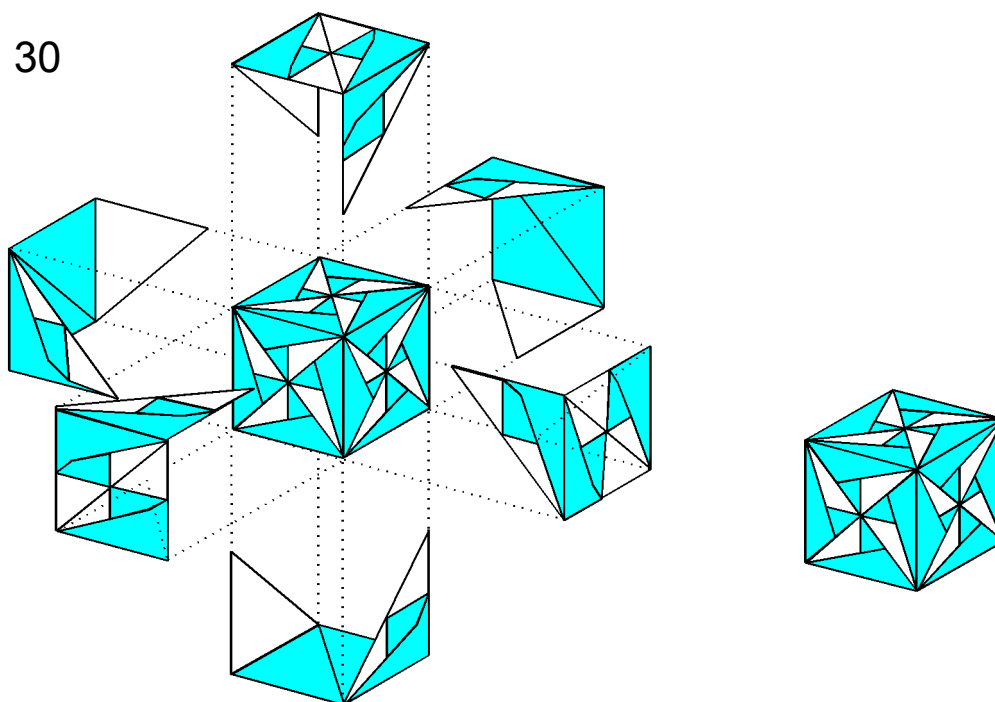
28. Configure the module by folding the top right and bottom left points inwards as shown then unfolding to right angles.

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29. The module is finished. You will need six to make the Darwin Lightning Cube.

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30. The six modules are assembled like this.

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