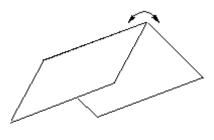


Date:

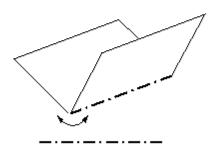
Origami DNA model

Folds for your DNA model

Mountain fold



Valley fold



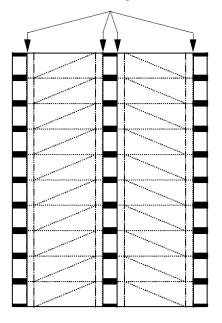
Solid lines are "mountains" and are to be folded away from you with the peak pointing towards you.

Dashed lines are "valleys" and are to be folded towards you with the peak pointed away from you.

Making your DNA model

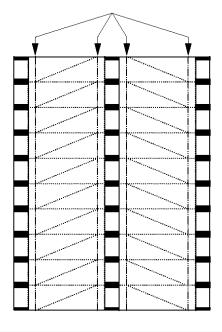
- 1. Cut the white border off the top, bottom, and sides of the template.
- Fold all solid lines going lengthwise down the page into "mountain folds".

Mountain folds along solid lines.



 Fold all dashed lines going lengthwise down the page into "valley folds".

Valley folds along dashed lines.

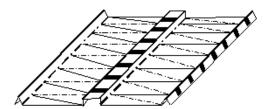


1





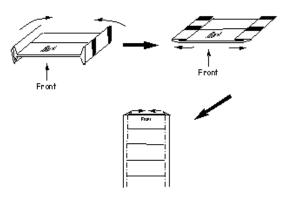
At this point, the paper should look like this:

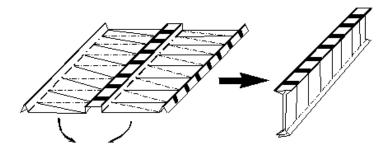


4. Bring the two sides of the model together, similar to an "I" beam.

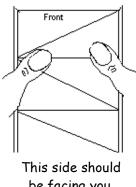
6. Fold the two sides of the DNA model so that the "front" side is flat.

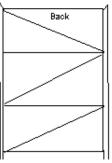
Date:



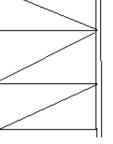


5. Look for the words "front" and "back" at the top of your model. Hold the model with the front side facing you.



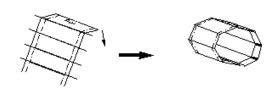


be facing you.

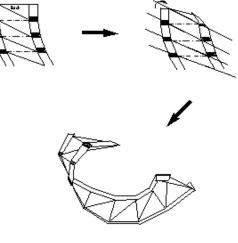


Your model should look like this.

7. Crease each solid, horizontal line into a mountain fold (away from you).



8. Flip the model to the "back" side. Crease each solid diagonal line into a mountain fold (away from you).



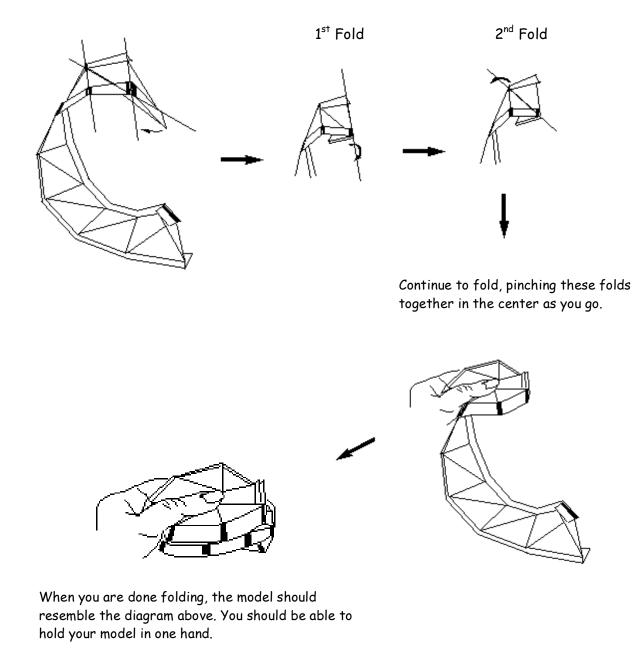
2



3

9. Fold ALL of the creases together in the directions of the folds made in steps 6 and 7. Your model will fold up like an accordion. While you are folding, pinch the middle of the model to keep it together to make a cyllindrical shape.

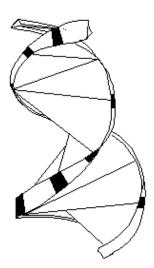
Fold ALL of the creases together like an accordion. (The dotted lines in the diagrams below may help)





Date:

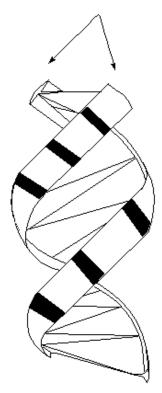
10. Release the model. You should be able to see the shape of a DOUBLE HELIX.



 Straighten out the sides of the DNA model (the DNA "backbones") to make them perpendicular to the creases in the middle (as in step 3).

Take care not to uncurl the spiral shape.

The DNA "backbone"



*Fix your DNA model so that all the creases are neat. This will reinforce the spiral shape.



Date:

Cytosine

5

