

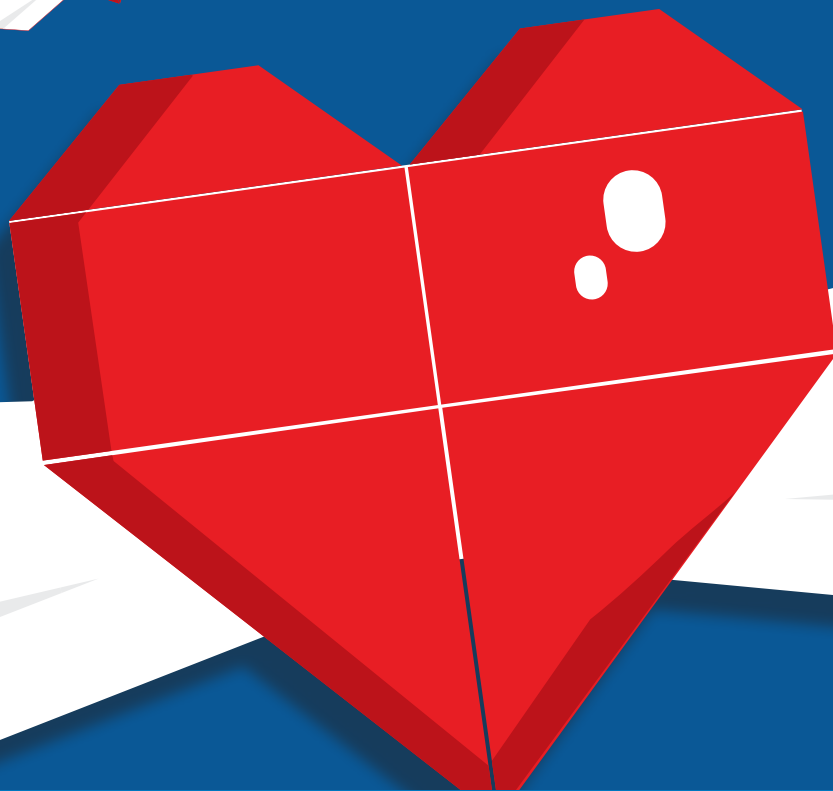
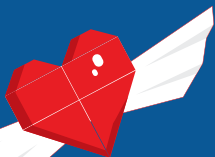
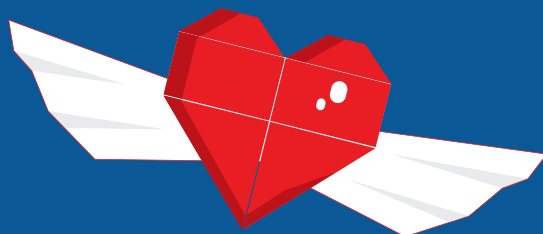


# QUICK PROJECT



AUTHORIZED AMA  
STE(A)M PROGRAM

*Love is  
in the  
Air*



AN OFFICIAL COMPETITION OF THE ACADEMY OF  
MODEL AERONAUTICS EDUCATION DEPARTMENT

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# Science Standards

4-PS3-1 - Use evidence to construct an explanation relating the speed of an object to the energy of that object

## Supplies

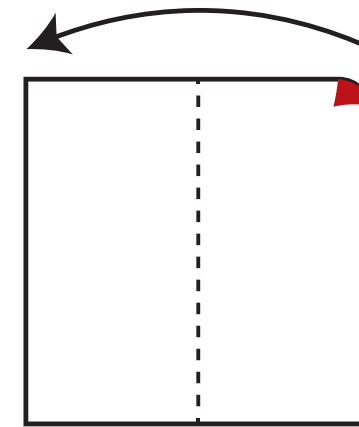
- 12cm x 12cm origami paper

## Love is in the Air

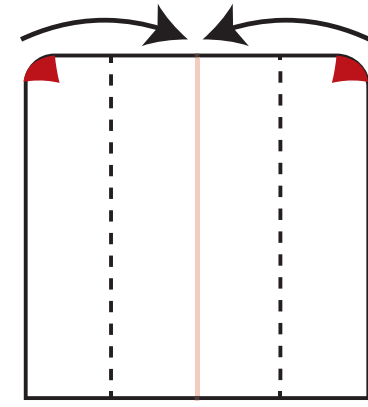
When you think of Valentine's Day, you might think of candy hearts, funny or heartfelt cards, or a fancy dinner. But have you ever thought of things that fly? There are plenty of things that fly around Valentine's Day, like kind words and thoughtful gestures. Thanks to this quick project, your heart can soar with just a few folds!

## Instructions

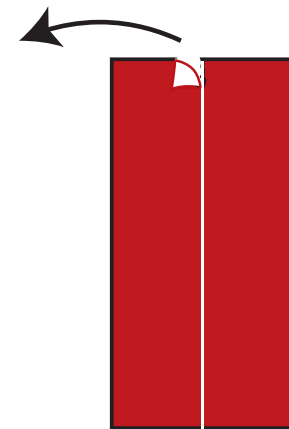
1. With the white side of the paper facing up, fold the paper in half. Unfold.
2. You will now fold both sides of the paper into the middle, toward the creases you just made. This divides the paper into 4 equal segments.
3. Undo one of the folds you just made and rotate the paper so that the folded side is closest to you. Flip the paper over.
4. Grab the corner on the bottom right. Fold it in toward the middle on the crease. Do the same with the left corner. Flip the paper.
5. Fold the top half of the paper down, using the crease as a reference. Flatten the paper.
6. You will have a shape that looks like long, irregular pentagon with some extra triangles at the top. The side of shape that is facing you should have four squares that were formed by creases.
7. Now grab the upper edge closest to the center of the bottom square on the right side of the paper. Pull it to the right. As you lift the paper, press on the line this creates to crease it.
8. Grab the upper edge closest to the center of the bottom square on the left side of the paper. Pull it to the left, making sure to crease the line that forms.
9. Press down on the shapes you just made to flatten the paper once again.
10. You will now have a shape that looks like a boat. Take the bottom of the "boat" and flip it up so that it matches the top edge of the squares at the top of the shape. Unfold.
11. Now the boat is divided into two parts. Fold each of these parts in half. Unfold.
12. Fold each of the four parts in half again. Start by pulling the bottom half of the up to the top of the shape.
13. Bring the crease closest to you down to the bottom edge of the boat.
14. Now you will do the same action 3 more times with the remaining parts of the boat.
15. There should be two squares at the top of the shape. Fold both corners in both squares to the middle of the squares. Both shapes should now have a triangular top.
16. Fold the top corner of each triangular shape down so that both shapes to the bottom of the folds you made in step 15.
17. To make the wings, hold the middle of the flap you made in steps 12-14. Fan out the folds on both sides. Flip over the shape to reveal a flying heart!



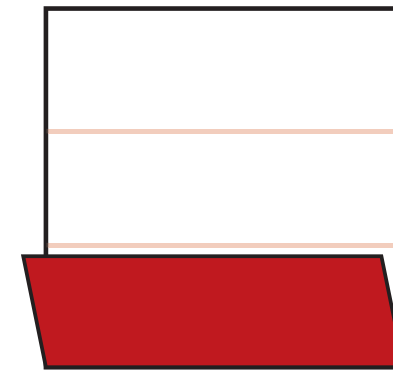
Create crease



Fold sides in to center crease



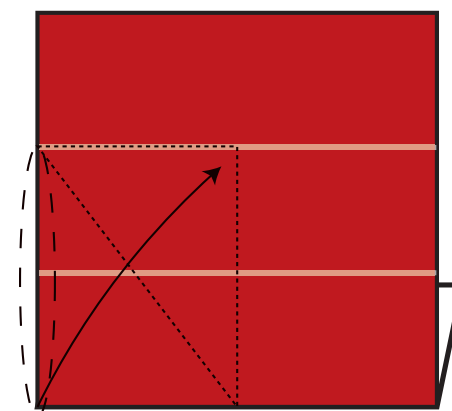
rotate 90°



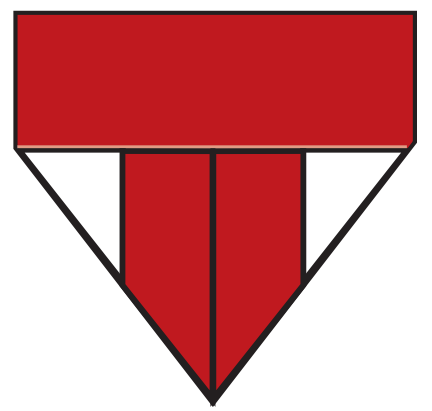
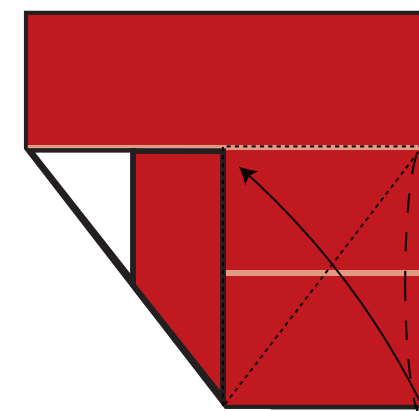
turn over

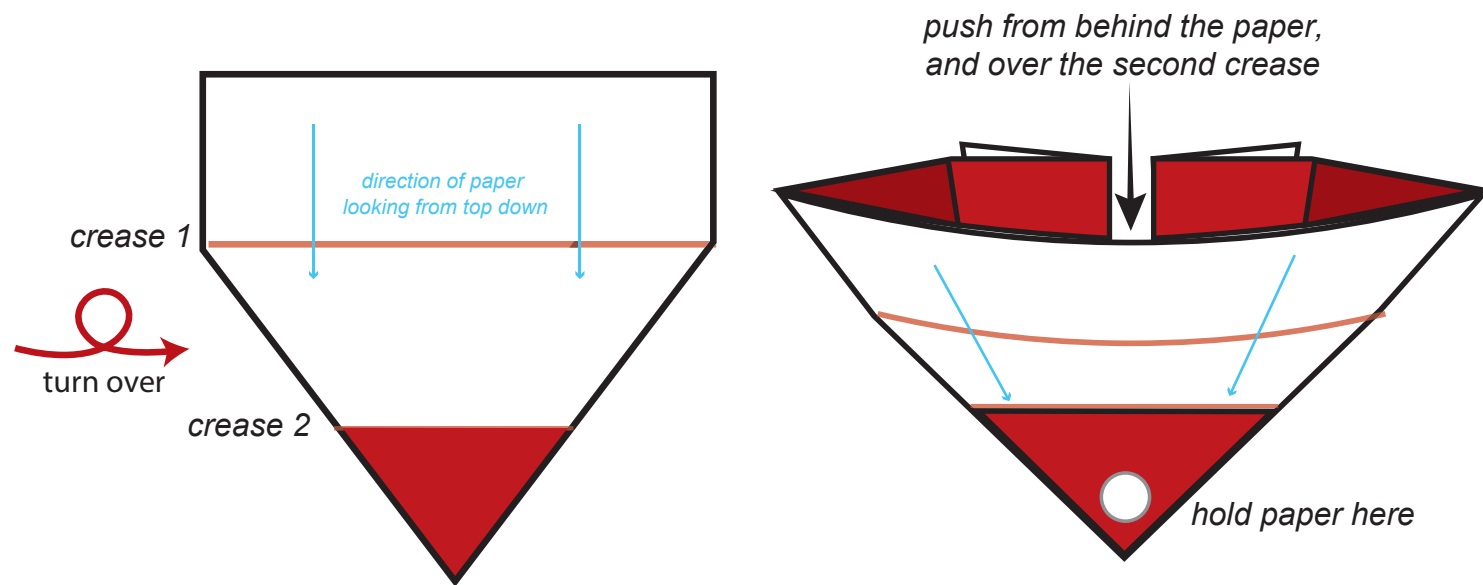


Unfold the left side, and rotate the paper leaving the folded side down. Turn the paper over.

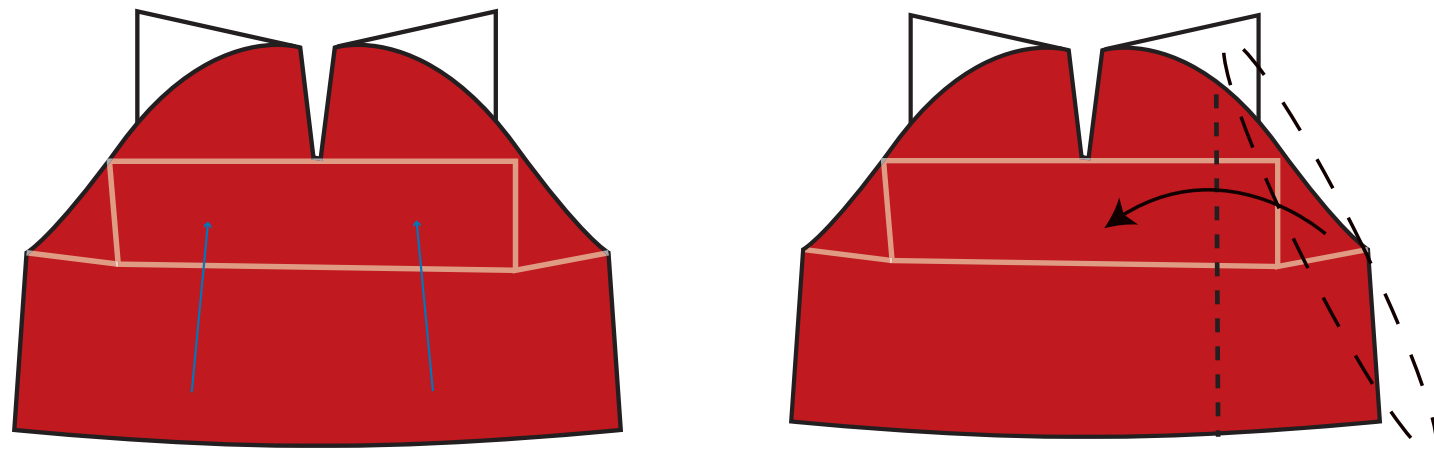


Fold the left edge to the second (topmost) crease, keeping the side even with the crease. Repeat for the other side.

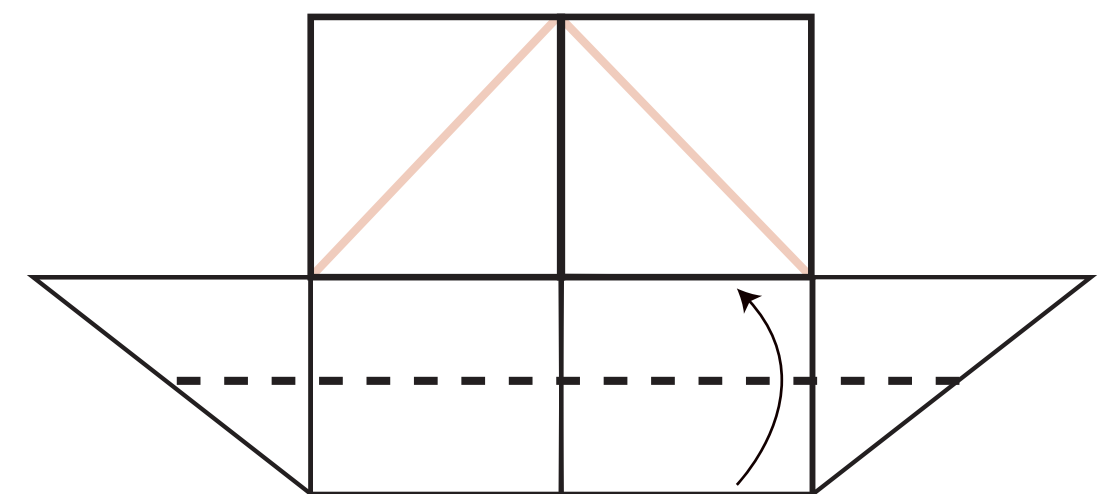
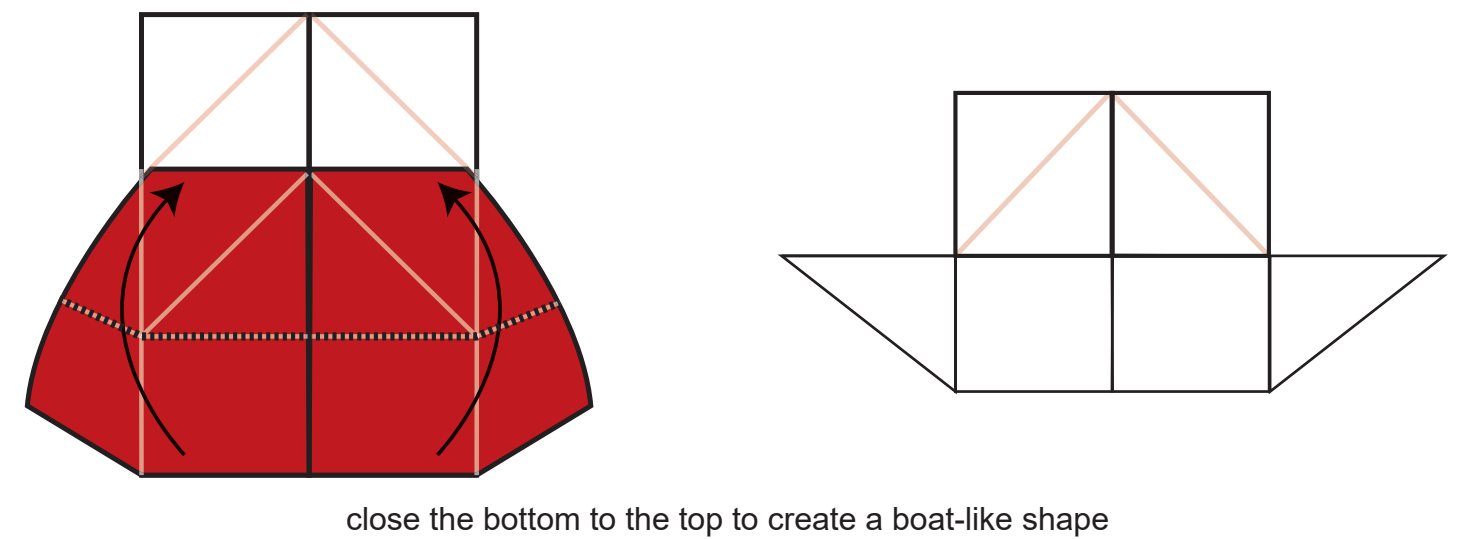
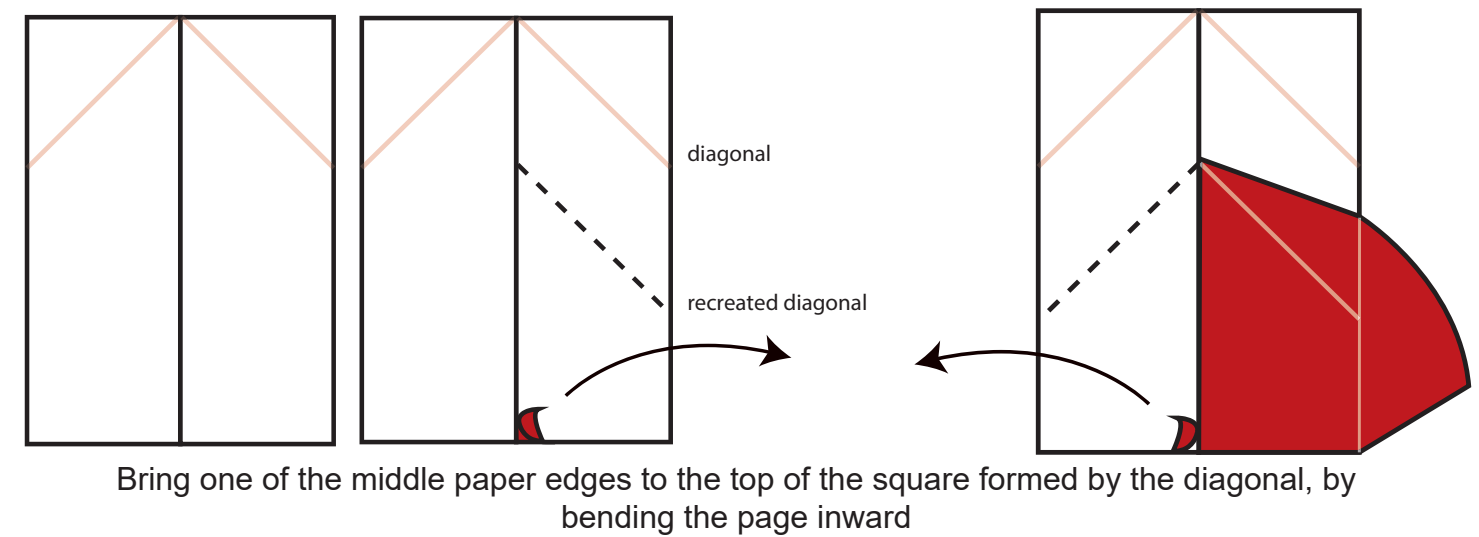
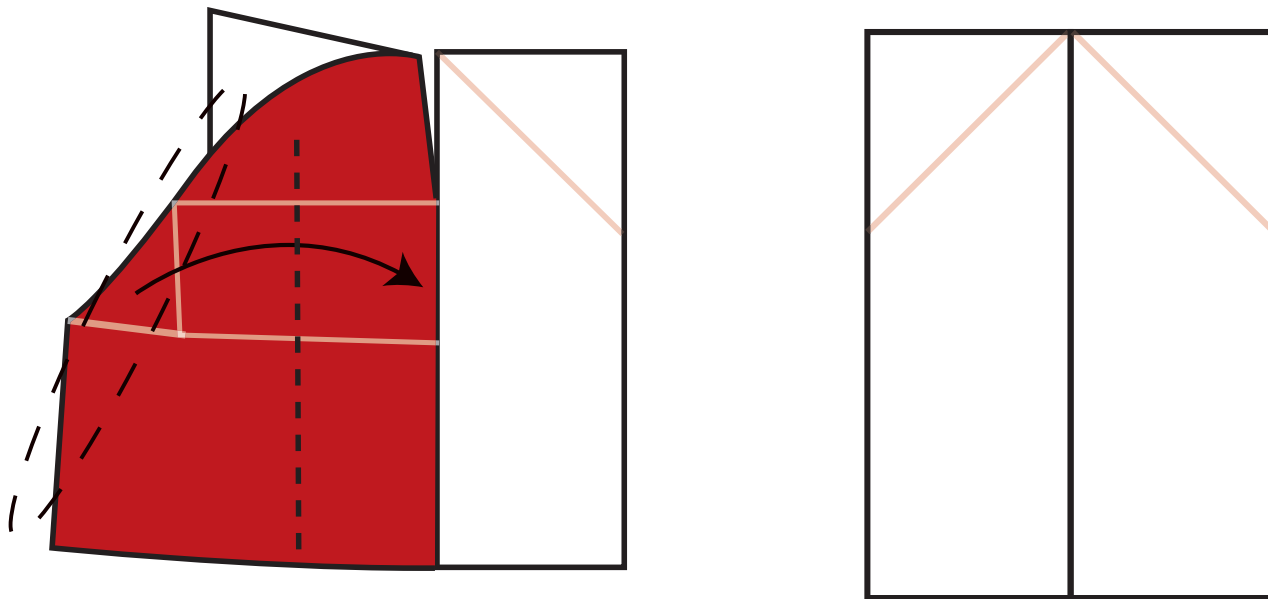




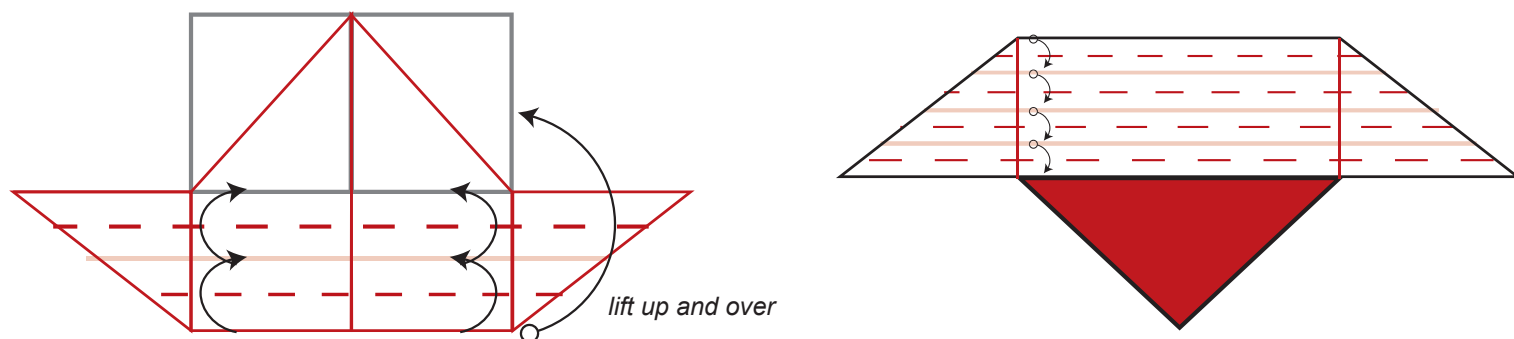
Turn paper over. Bring the topside over the triangle shape, using the second crease as a reference.



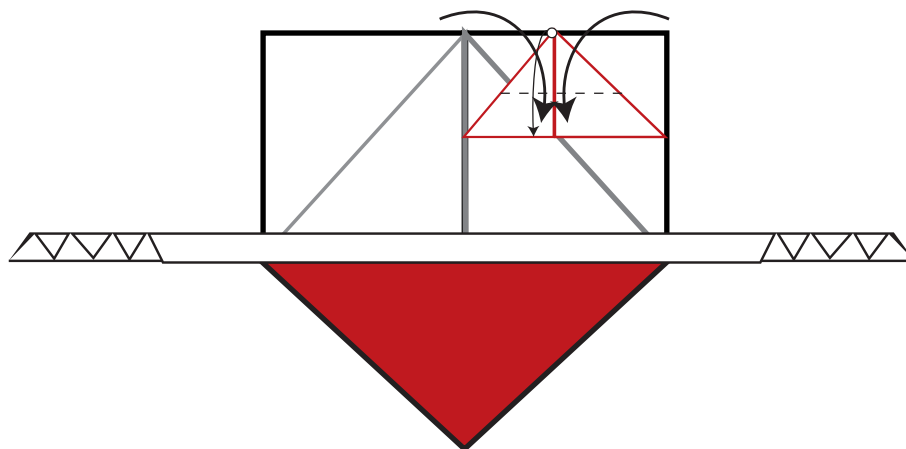
Now, close the paper sides to the middle and flatten the top, making a diagonal fold. Repeat for the other side.



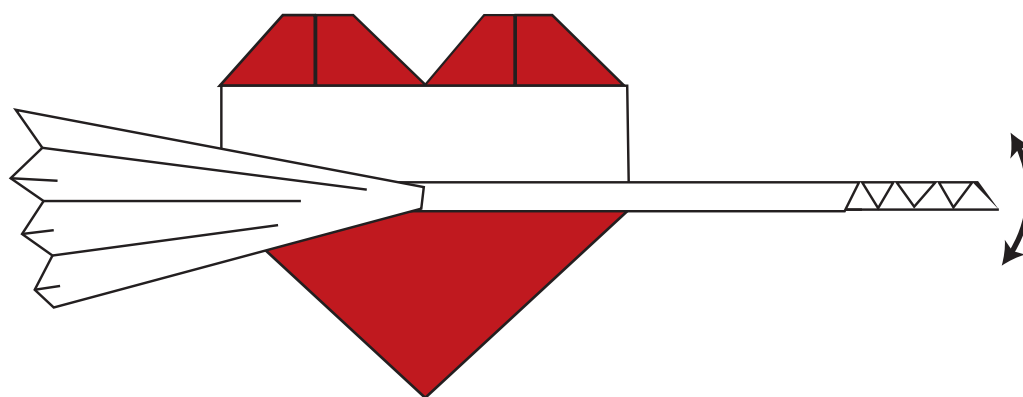
Fold the bottom of this "boat" in half to create a crease.



Using the previous crease, fold the bottom to this crease, then to the top again. Flip this shape over, and accordion fold inbetween the four creases.



Grab the corners of the squares, and fold them to the center of the diagonal crease. Then, fold the tip of this triangle down to flatten the top. This will create the heart shape. Repeat for the other side



Pinch the center of the 8-fold and open each end to spread the wings.  
Turn over to see the completed heart.

