

# PAPER PLANES



Enrooting young minds to soar their wings with technology and their dreams to take flight reaching far beyond the highest height with Technoplanes...!!

## WHO ARE WE?

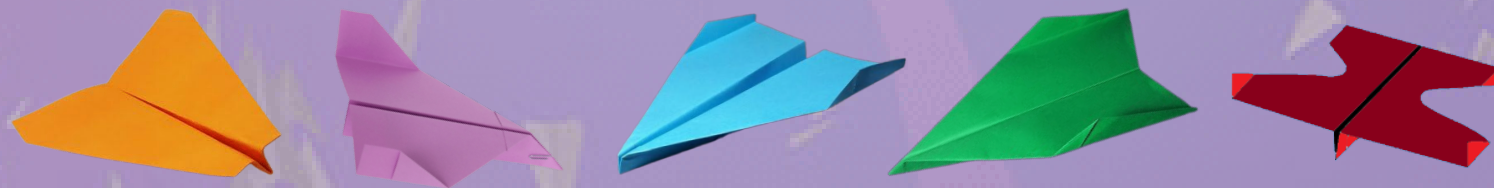
Technoanveshana was founded in the year 2018 with the vision to search pathbreaking solutions to the present technological issues. Young and enthusiastic team blended with experienced professionals with the mission of developing TechnoBots and providing training to students to cater the needs of new era in Robotics.

## TECHNO PLANES

We call our paper planes as TECHNO PLANES. They can be constructed easily through papers.

## PAPER PLANES

Paper plane is an art of Origami, that is folding a paper to create something new. The paper plane will fly when we apply some force on it and some other forces create automatically.

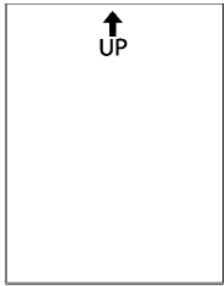




# ARROW

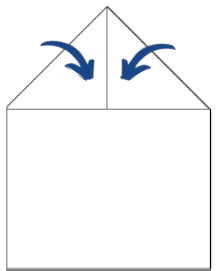
This plane is easy to fold and flies straight and smooth. Add a small amount of up elevator for long level flights

1



Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2

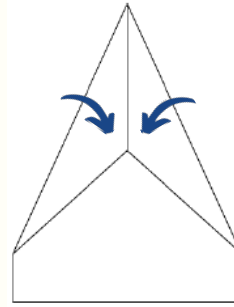


Pull the top right corner down toward you until fold line 1 is visible and crease along the dotted line. Repeat with the top left corner.

6

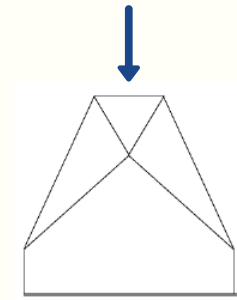
Fold the wings down along fold lines 5. Partially open the folds you just created so that the wings stick out straight. Cut two slits, one inch apart, along the back edge of each wing for elevator adjustments. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. Now you are ready to fly!

3



Fold the right side over again and crease along fold line 2. Repeat with the left side.

4



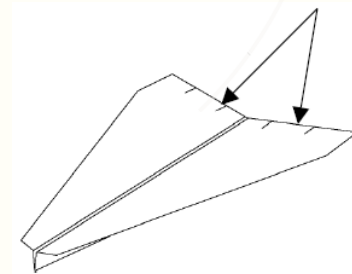
Fold the tip down toward you and crease along fold line 3.

5



Now, flip the paper over. Then, fold the left side over onto the right side and crease along fold line 4 so that the outside edges of the wings line up.

Elevator

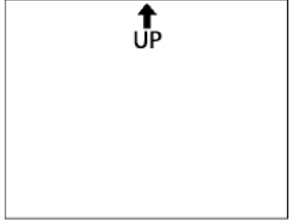




# DELTA

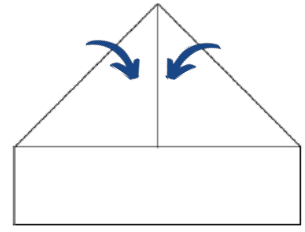
This plane flies fast and straight. It is easy to fold and a great all around flier. Add some up elevator if necessary to produce stable flights.

1



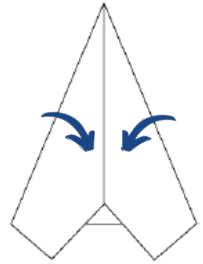
Orient the template with the "UP" arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2



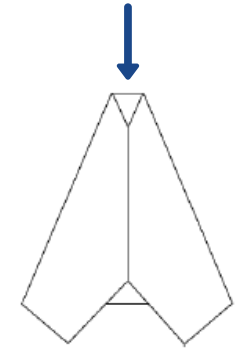
Fold the top left corner down toward you until fold line 1 becomes visible. Crease along the dotted line and repeat with the top right corner

3



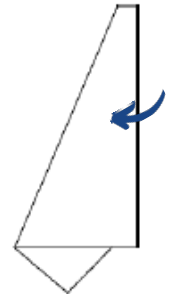
Fold the left side over again and crease along fold line 2. Repeat with the right side..

4



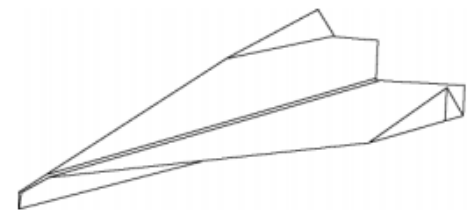
Fold the nose down and toward you along fold line 3.

5

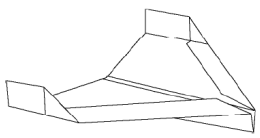


Fold the right half of the plane over the left half along fold line 4 so that the outside edges of the wings line up..

6



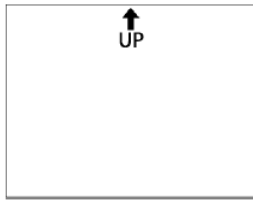
Fold the wings down along fold lines 5 and the winglets up along fold lines 6. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight "V" shape when viewed from the front. You are ready to fly!



# CONDOR

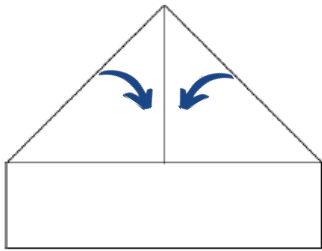
This plane produces tremendous lift at low speed, giving it a very low glide slope. It is an excellent indoor flier and will coast across the room on slow, smooth glides.

1



Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2

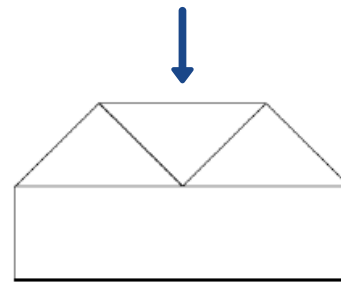


Fold the top left corner down toward you until fold line 1 becomes visible. Crease along the dotted line and repeat with the top right corner.

6

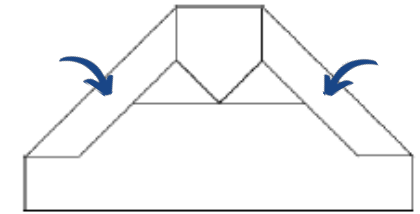
Fold the wings down along fold lines 5 and the winglets up along fold lines 6. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. Add elevator slits along the back edge of the wings to adjust the flight if necessary. You are ready to fly!

3



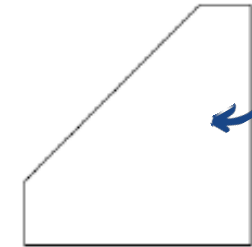
Fold the nose down until fold line 2 becomes visible and crease along the dotted line.

4

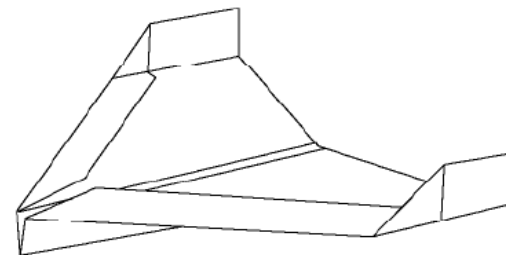


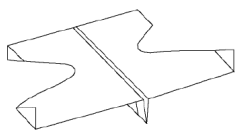
Fold the outside wing edges in and crease along fold lines 3

5



Fold the right half of the plane over the left half and crease along fold line 4 so that the outside edges of the wings line up.





# DRAGON FLY

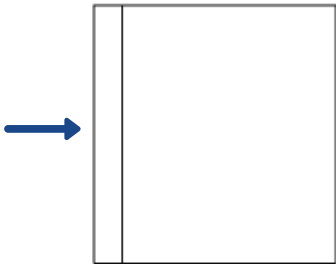
This unusual plane gets its name from its two sets of nearly symmetrical wings that resemble a dragonfly when viewed from the top. This plane is very aerobatic, and will tend to loop if thrown hard outdoors.

1



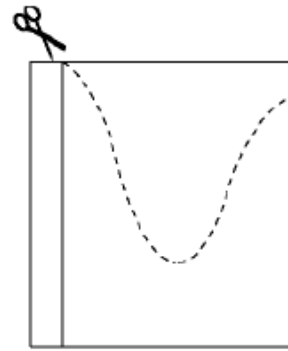
Begin by folding toward you along the first fold line. Continue folding this strip over itself until you reach the stop line. Make firm creases with each fold.

2



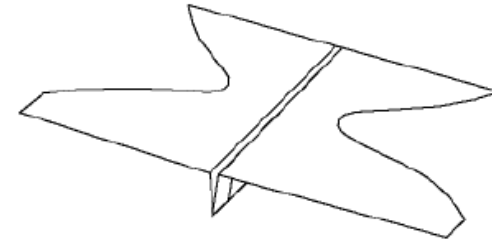
After you reach the stop line, flip your paper over and fold it in half fold half line 2, so that the two flat sides of the paper are touching.

3



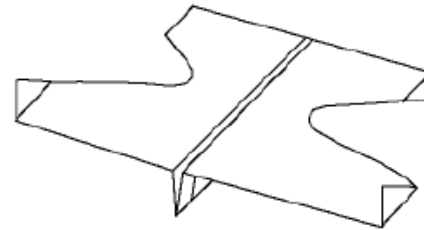
Cut along cut line 3 while keeping the paper folded tightly together to ensure that both wings match perfectly.

4



Fold the wings down along fold lines 4.

6



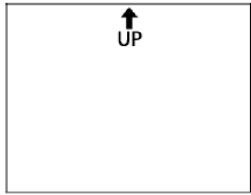
Fold the front winglets up along fold lines 5 and the back winglets down along fold lines 6. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight "V" shape when viewed from the front. You are ready to fly!



# RAPTOR

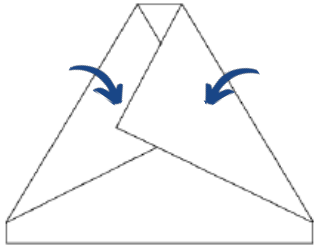
This plane is an excellent outdoor glider. Launch straight up and it will glide down in big lazy circles. Adjust the elevator on the back edge of the wing to perfect the flight characteristics.

1



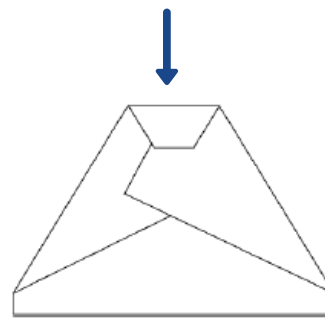
Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2



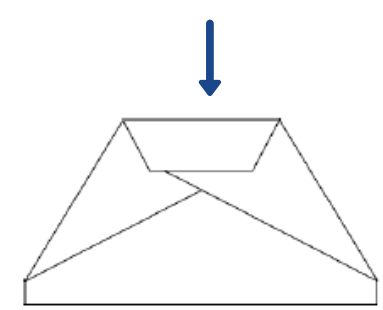
Fold the top right and top left corners in until fold lines 1 appear and crease along the dotted line..

3



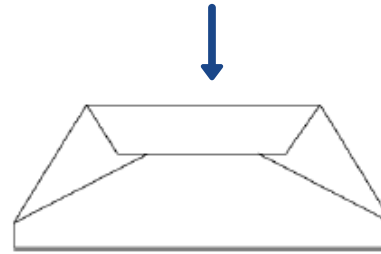
Fold the nose down toward you and crease along fold line 2.

4



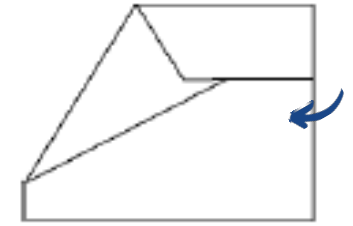
Fold the nose down toward you again and crease along fold line 3

5



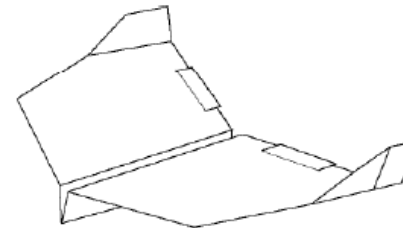
Fold the top edge down toward you again and crease along fold line 4.

6

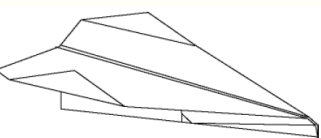


Flip the plane over and fold the right half over the left half along fold line 5..

7



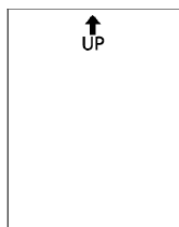
Flip the wings down along fold lines 6 and the winglets up along fold lines 7. Cut slits along the back wing edge for the elevator adjustment. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. You are ready to fly!



# CLASSIC DART

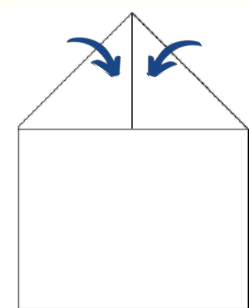
This plane is the classic schoolyard dart. It has short, compact wings and will fly straight as an arrow. It generally needs some up elevator along the back wing edges to fly properly

1



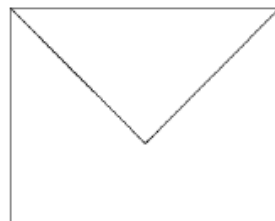
Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2



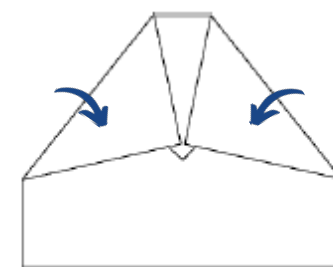
Pull the top right corner down toward you until fold line 1 is visible and crease along the dotted line. Repeat with the top left corner.

3



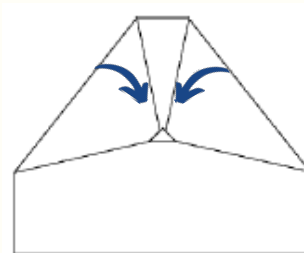
Fold the top point down toward you until fold line 2 is visible and crease along the dotted line.

4



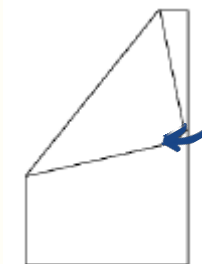
fold the top left and top right corners down and toward you and crease along fold lines 3..

5



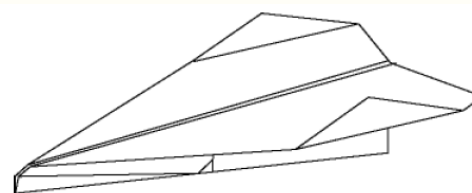
Fold the tip up and over the two diagonal folds along fold line 4 to secure them in place

6



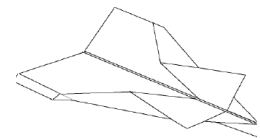
Flip the plane over and fold the right side over onto the left side as shown along fold line 5 so that the outside edges of the wings line up. Also make sure the diagonal folds do not become untucked from the tip you folded up in the previous step.

7



Fold the wings down along fold lines 6 and the winglets up along fold lines 7. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. Cut two slits, one inch apart, along the back edge of each wing to make elevator adjustments. Start out by trying some up-elevator. You are ready to fly

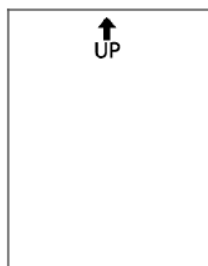




# CANARD

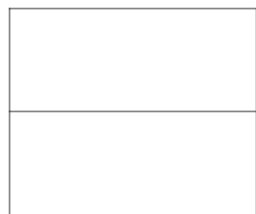
This unique plane has small wings at the front called “canards.” This design is surprisingly stable and will float long and straight if folded carefully.

1



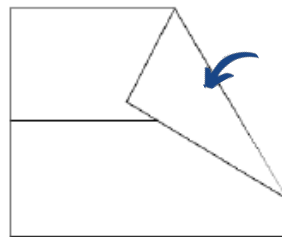
Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2



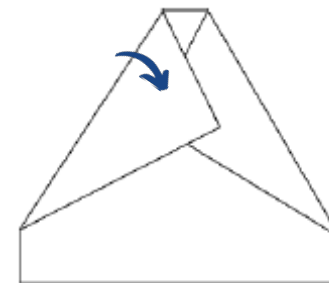
Fold the top edge of the paper down toward you until fold line 1 becomes visible. Make a crease along the dotted line.

3



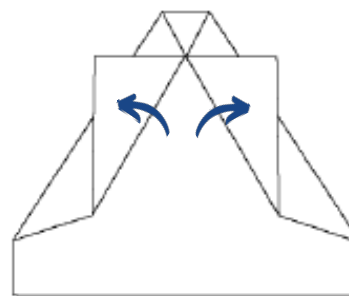
Fold the top right corner down and toward you and make a crease along fold line 2. Be aware that you will not be able to see the fold line after making this fold

4



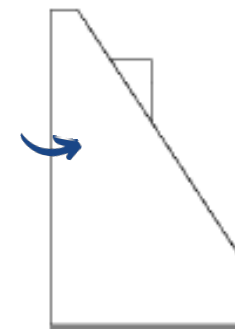
Fold the top left corner down and toward you and make a crease along fold line 3.

5



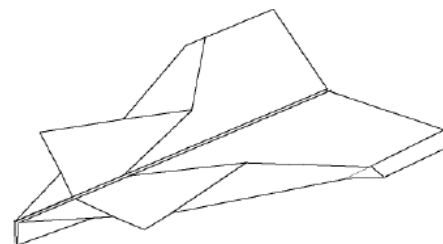
Fold the corners of the flaps you just folded up along fold lines 4.

6



Fold the left half of the plane over onto the right half along fold line 5 so that the outside edges of the wings line up.

7

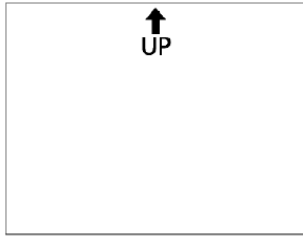


Fold the wings down along fold lines 6 and winglets down along fold lines 7. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. You are ready to fly!

# BULLET

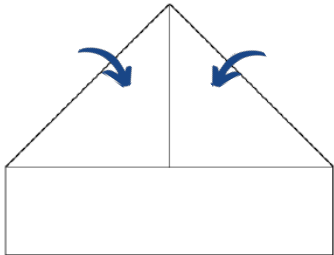
This plane flies as fast and as far as you can throw it, although it can also spin out of control if thrown too hard. Accurate firm creases are important.

1



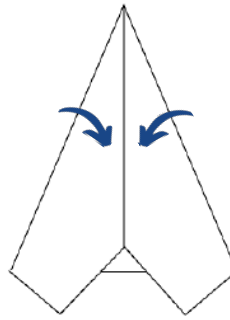
Orient the template so that the “UP” arrow is at the top of the page. Then flip the paper over so that none of the fold lines are showing

2



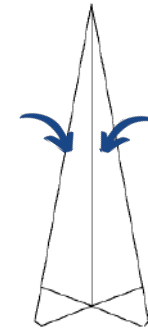
Fold the top left corner down toward you until fold line 1 becomes visible. Crease along the dotted line and repeat with the top right corner.

3



Fold the left side over again and crease along fold line 2. Repeat with the right side.

4



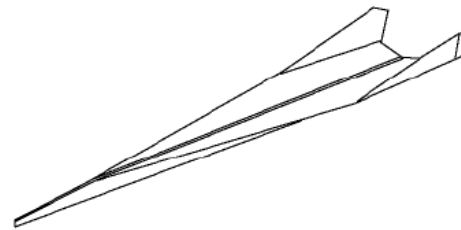
Fold the left side over once again and crease along fold line 3. Repeat with the right side. Make sure that you are making firm, crisp creases along each fold line.

5



Fold the right half of the plane over onto the left half along fold line 4 so that the outside edges of the wings line up. Again, make a firm crease along this fold.

6



Fold the wings down along fold lines 5 and the winglets up along fold lines 6. Tilt the wings up slightly. The wings will have a slight “V” shape when viewed from the front. You are ready to fly!

# SPADE

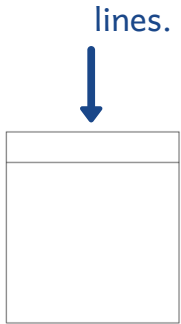
This spade-shaped plane is an excellent stable glider. The wing shape helps generate large amounts of lift.

1



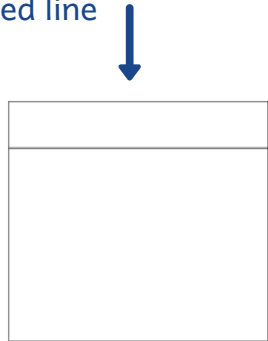
Orient the template with the "UP" arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines.

2



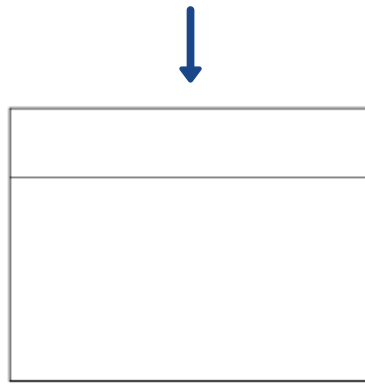
Pull the top edge down until fold line 1 becomes visible and crease along the dotted line

3



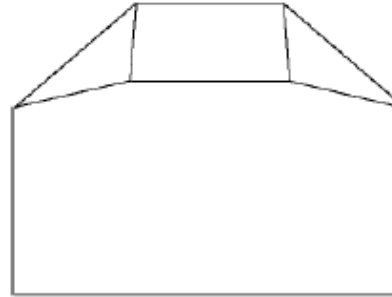
Fold the top edge down again and crease along fold line 2

4



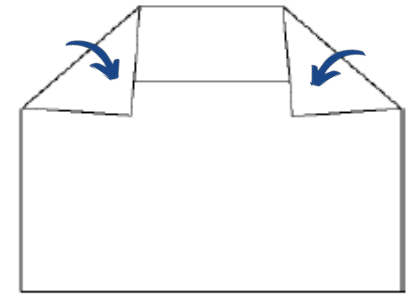
Fold the top edge down once again and crease along fold line 3.

6



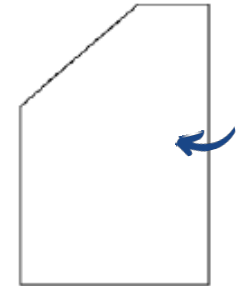
Tuck the corners under the front flap and crease along fold lines 5.

5



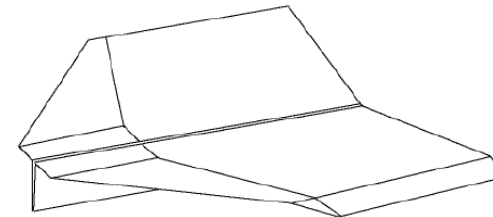
Fold the top left and top right corners down along fold lines 4.

7

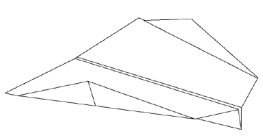


Fold the right half of the plane over the left half along fold line 6 so that the outside edges of the wings line up.

8



Fold the wings down along fold lines 7 and the winglets down along fold lines 8. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight "V" shape when viewed from the front. You are ready to fly!



# TRAP GLIDER

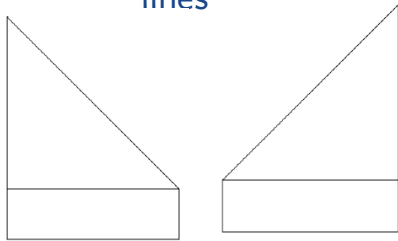
This plane has a trapezoid shape when viewed from the top. Its weight forward design and large tapered winglets make it a stable flier.

1



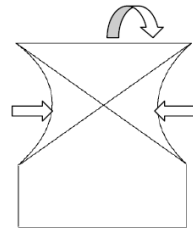
Orient the template with the “UP” arrow at the top of the page. Then, flip the paper over onto its backside, so that you cannot see any of the fold lines

2



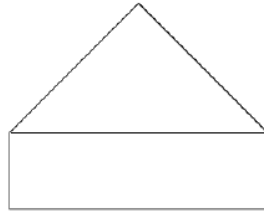
Fold the top right corner down and to the left, fold the top left corner down and to the right and Unfold the fold you just created.

3



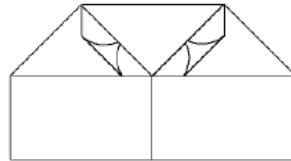
This step is a bit tricky. Lift the left and right edges of the paper and push them toward each other while folding the top triangle onto the bottom one. Make a crease along fold lines 3 so that you end up with the shape below.

4



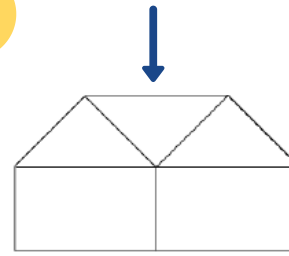
This is the shape you should have after completing the step above.

7



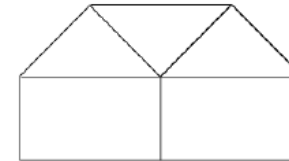
Tuck the two small triangles you just formed into the pocket in the nose.

5



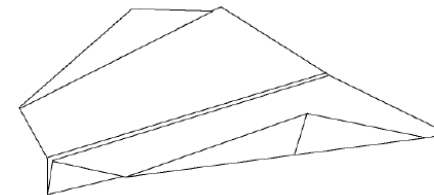
Fold the nose down until fold line 4 appears and make a crease along the dotted line.

8



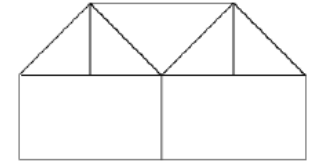
When you have completed the step above, your paper should look like this.

10



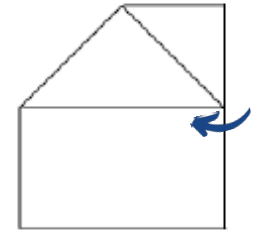
Fold the wings down along fold lines 7 and the winglets up along fold lines 8. Add wing dihedral by tilting the wings up slightly away from the fuselage. The wings will have a slight “V” shape when viewed from the front. You are ready to fly!

6

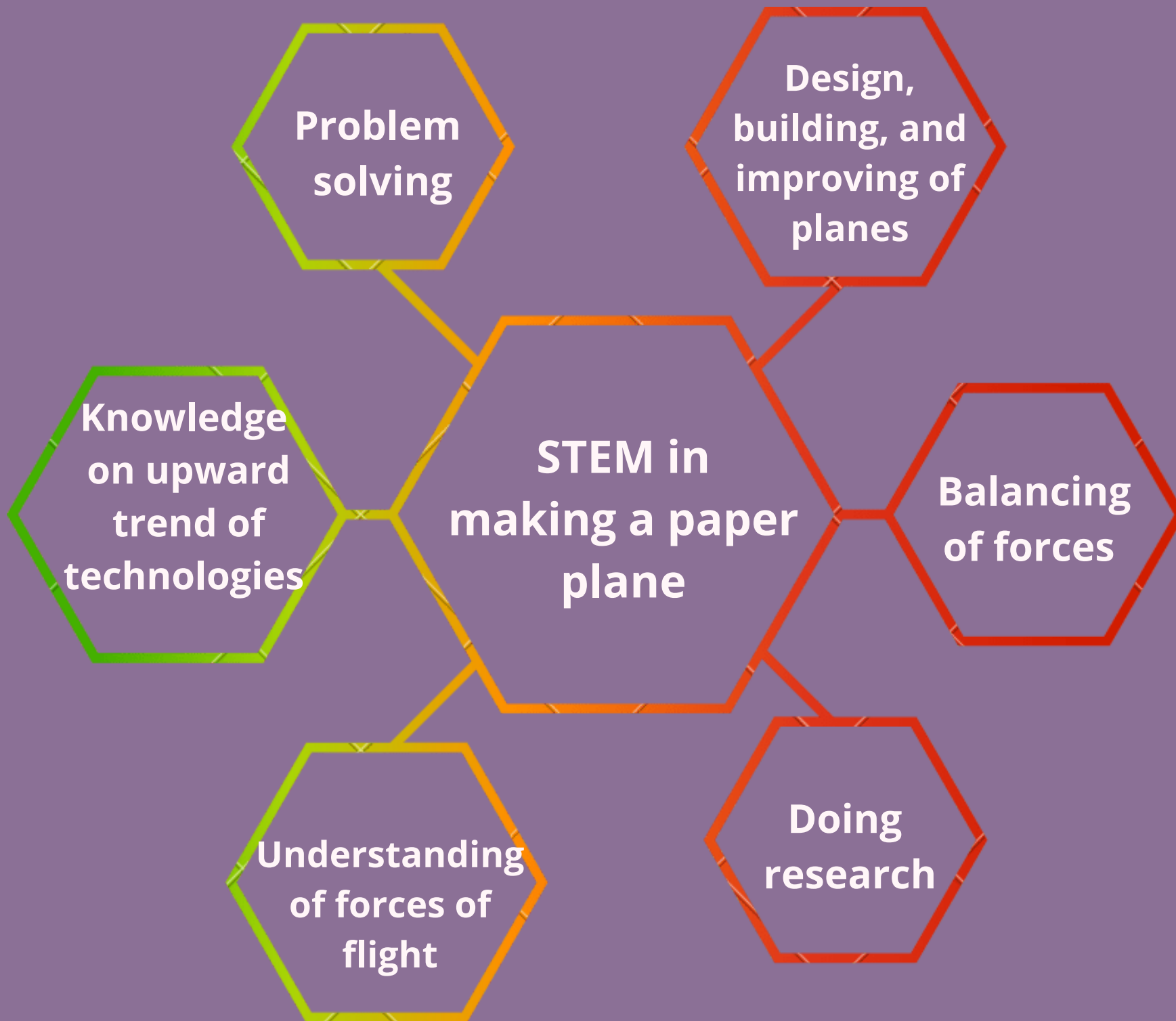


Fold the left and top flaps in and crease along vertical fold lines 5. You just formed two small triangles

9



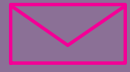
Flip the paper over onto its backside. Fold the right half of the plane over onto the left half and crease along fold line 6 so that the outside edges of the wings line up



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