

Air Activities Stage 1 Badge

Make An Aircraft Out Of Paper And See How Well It Flies. You Could Use A Paper Dart Or A Helicopter And Drop It From A Height

Super Flyers Competition[©]

By Samantha Eagle

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Air Activities Badge Stage 1

Make An Aircraft Out Of Paper And See How Well It Flies. You Could Use A Paper Dart Or A Helicopter And Drop It From A Height

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Overview

For this task your group will in teams take part in a 'Paper Plane' flying competition. In the document you will find 3 aircrafts to choose from. You should make them all and choose which one you think best suits your group. Or your group can make all three.

Preparation Before The Meeting

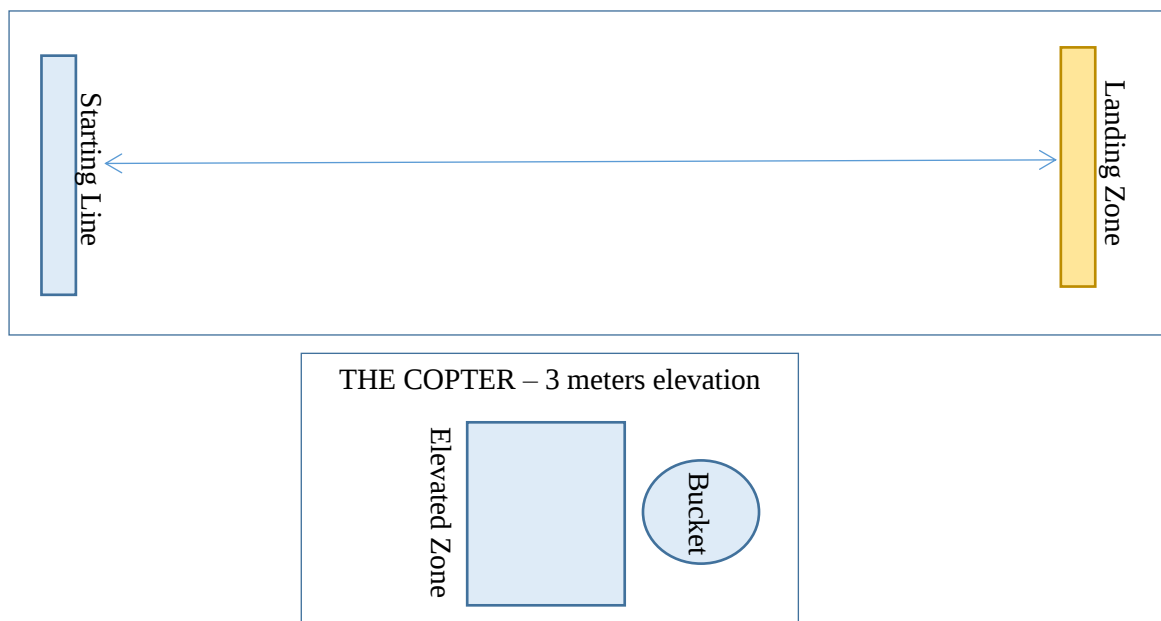
1. Print out the paper aircraft instructions that you wish to use. You will need one for each team of three (if you are going to use all three then you will need to print them all)
2. Print out the score sheet – found in this document
3. Print out the 'copter' template – found in this document – there are two on the page you need one for each person and some spare
4. Each leader/helper should practice how to make the planes in this document before you go through these with your group this will allow you perform a better demonstration

Materials Needed Per Person

- 2-3 x A4 paper, 100gsm
- Scissors (can share)
- Paperclip
- Bucket/wide container (ideally you would have one between 3 – if you are struggling you can use less but each person will have to wait a little this could cause them to become restless)

Preparation At The Meeting

1. Mark out some landing areas for each group. For the 'Copter' area you could use a table to stand on but make sure there are leaders surrounding it as a safety precaution

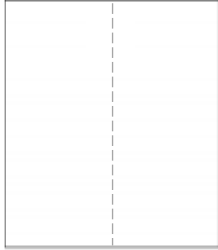


Directions/Leader Speak

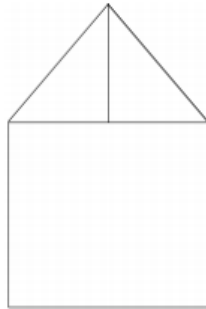
1. **Speak** - Tonight you are going to be starting your 'Air Activities Stage 1 Badge' this is a fun simple badge to do. The first task you need to complete is to make a paper aircraft
2. **Speak** - For safety, remember to never throw a paper airplane at another person, animal, or object that could be damaged if you hit it. Paper planes can have sharp edges and points that can injure someone if you are not careful. Keep in mind that paper planes can curve or change direction after they are launched, so make sure your flying area is clear. When flying outdoors, never fly your plane near moving cars or run into the street after your plane. Instead fly them in a park or playground
3. **Speak** - We're going to demonstrate how to make a paper plane. This one is called the [name the plane] Plane'
4. **Direction** - Assign a leader/helper to demonstrate how to make the 'Plane'
5. **Action** - Divide your group into as many teams as you have leader/helpers to demonstrate how to make the plane
6. **Action STEP1** - Each leader/helper demonstrates how to make the plane in front of their team
 - a. Make sure everyone can see you clearly
 - b. Speak loud and clear through each step
 - c. Outline to the group that the folds need to be strong and straight to get a good result
7. **Action STEP2** - With a new piece of paper get the group to follow your steps to make the plane you've just demonstrated (don't fly them yet!)
8. **Action STEP3** - Now handout the instructions to each team of three and get them to make the plane again following the instructions on the handout. Reiterate that the folds should be precise and strong - you may need to help the younger children to follow the instructions and make the folds
9. **Speak** - Everyone should have a great folded plane. You're now going to go to your landing areas and practice flying your planes before the big competition begins!
10. **Direction** - Show each team their landing areas and get them to fly their planes. Allow them time practice their techniques to get the planes to fly a good distance
11. **Direction** - Now ask each team to give you a name (write this on the 'Score Sheet')
12. **The competition starts...**
13. **Direction** - The first person from each team will line up next to each other to throw their planes and compete for the furthest distance
14. **Direction** - Award points for 1st, 2nd and 3rd place. (3 points for 1st, 2 points for 2nd and 1 point for 3rd). Record their points on the 'Score Sheet'
15. **Direction** - For the Copter you would score 2 points for each person who got it into the bucket and 1 point if it's close - The teams would have to be elevated above the target for this aircraft
16. **Direction** - Once all children have competed from each team add up the total points and announce the 1st, 2nd and 3rd place winners
17. **Direction** - Repeat the above procedure for the next plane if you have chosen to make another one and, in this case, you can total the points together.

The Dart - This is an easy plane to make and flies far

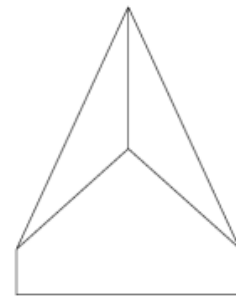
Step 1 - Take an A4 sheet of paper fold it in half lengthways and open out again.



Step 2 - Fold the top left corner down toward you until it meets the crease in the middle of the paper. Repeat for the right corner (the bottom edges should line up to each other)



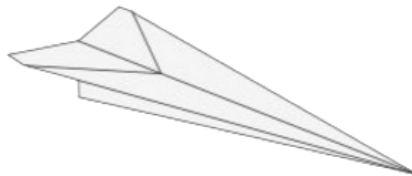
Step 3 - Fold the top edges to meet at the centre (use the diagram below to help)



Step 4 - Fold the entire plane in half (inwards) and make a strong crease

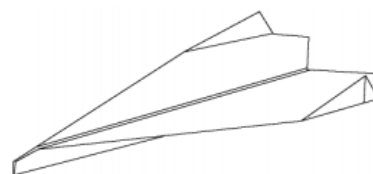


Step 5 - Fold the wings down to meet the bottom edge of the planes body.

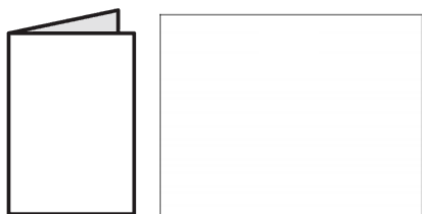


TIP - To achieve a good flight aim the plane upwards as you throw.

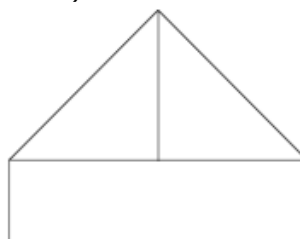
The Delta - This plane flies fast and straight



Step 1 - Take an A4 sheet of paper fold it in half and open out again. Lay on your table lengthways (landscape).



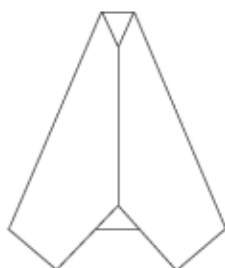
Step 2 - Fold the top left corner down toward you until it meets the crease in the middle of the paper. Repeat for the right corner (the bottom edges should line up to each other)



Step 3 - Fold the left side again to meet the middle crease repeat with the right side (the diagram below to help)



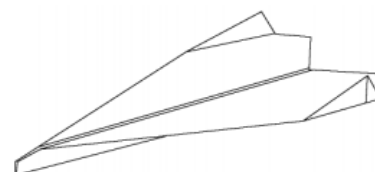
Step 4 - Fold the nose down toward you (no more than 1.5cm)



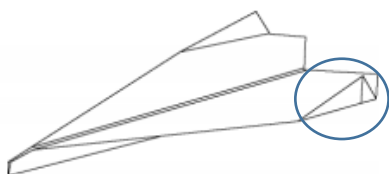
Step 5 - Fold the right half of the plane over the left half along so that the outside edges of the wings line up.



Step 6 - Now take the right wing and fold it back then the left wing making sure they line up.

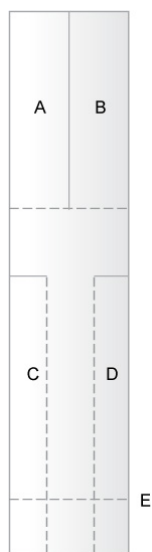


Step 7 - Fold up the two winglets and you are ready to fly!



TIP - To get achieve a good flight aim the plane upwards as you throw it.

The Copter - This aircraft whoops round and round



Step 1

Cut along all the solid lines on the diagram to the left.

Step 2

Fold flap C inwards along the dotted lines

Step 3

Fold flap D inwards so now it's folded on top of flap C

Step 4

Now fold up the bottom where you can see E on the diagram and slide on a paperclip to give it some weight at the bottom

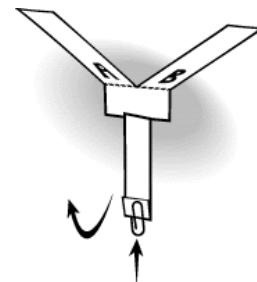
Step 6

Now fold down the A flap and fold back the B flap.

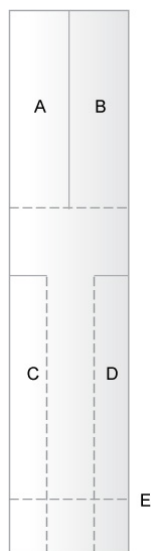
Step 7

Position yourself in an elevated position either on some stairs or on a table.

Hold the copter towards the top of the stem with the blades facing upwards, drop it and watch it fly.



The Copter - This aircraft whoops round and round



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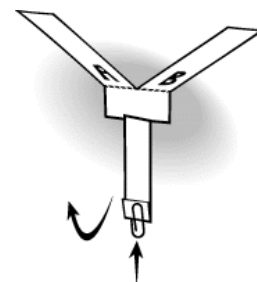
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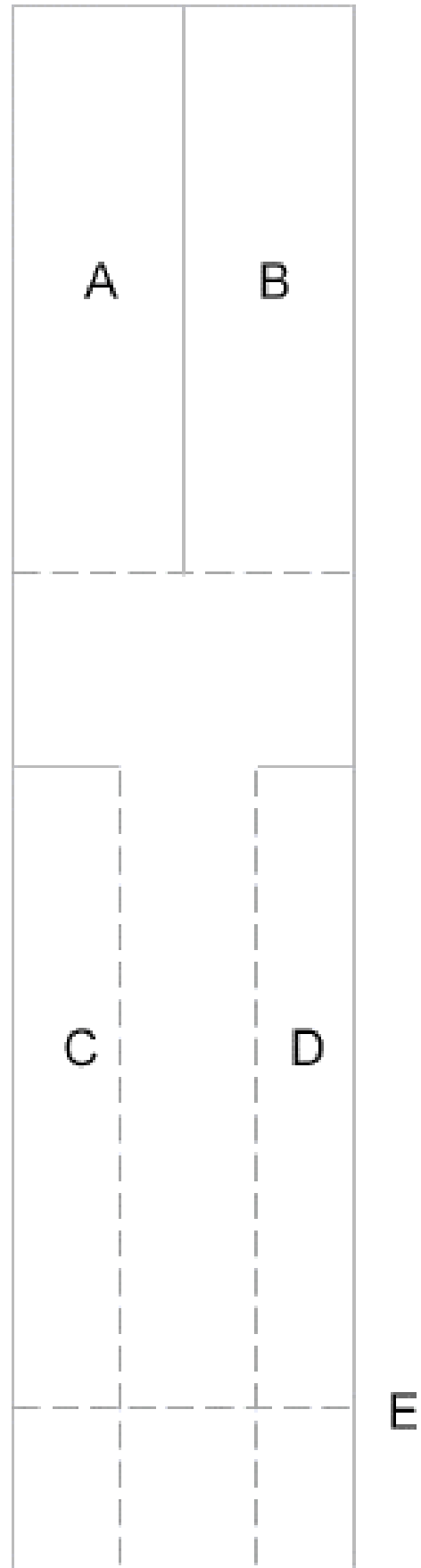
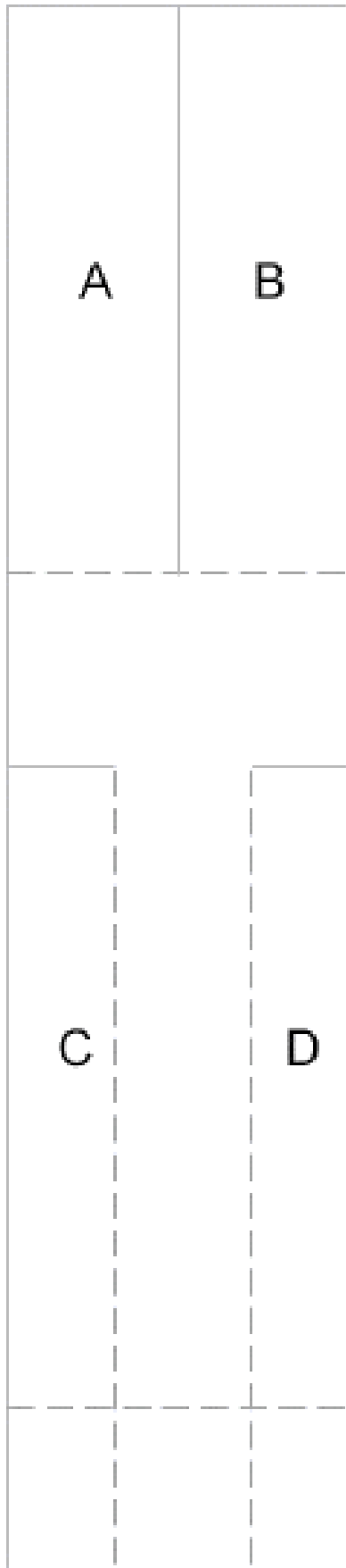
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Team	Classic Dart Points	Delta Points	Copter Points (attempts in the bucket)