

Paper Plane Design Trials

Plane 1 - Name: *Delta* **URL:**

Trial 1

Distance - 17 Ft.

Flight Path – It flew mostly straight, but then rapidly curved to the left, and hit the ground.

Observations – It flew pretty well for a simple plane.

Design Tweaks Applied – For trial 2, I will add a small paper clip to the back of the plane, to keep the center from opening up.

Trial 2

Distance - 16 Ft.

Flight Path – It flew straight, but very low to the ground.

Observations – The paper clip could be why it flew lower because it weighed it down.

Design Tweaks Applied – For trial 3, I will change the small paper clip to 2 staples, on the nose, and on the tail. I'm hoping this will make it fly a little higher and farther.

Trial 3

Distance - 22 Ft.

Flight Path – Pretty straight, higher than last time.

Observations – My design tweaks improved the plane's travel distance by 5 feet since trial 1.

Name
3D Design
Period 4
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Plane 2 – Name: *Bullet* **URL:**

Trial 1

Distance - ___8___ Ft.

Flight Path – It flew straight, but low to the ground.

Observations – It was flying well, then suddenly jerked and “died”.

Design Tweaks Applied – I will fix the planes nose, which is sticking out. I am adding a (small) paper clip to the front.

Trial 2

Distance - ___9.5___ Ft.

Flight Path – Straight, but it stopped suddenly.

Observations – It still jerked suddenly like last time.

Design Tweaks Applied – I am moving the paper clip to the back of the plane.

Trial 3

Distance - ___11___ Ft.

Flight Path – It flew higher than the last two times, then it nose-dived.

Observations – This plane is not the best.

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Plane 3 – Name: *Arrow* **URL:**

Trial 1

Distance - ___10___ Ft.

Flight Path – It flew high, then curved to the left and smashed into the lockers.

Observations – It would have flown farther, but it hit the lockers.

Design Tweaks Applied – I will fix the folds and add more “elevator” to the back.

Trial 2

Distance - ___23___ Ft.

Flight Path – Flew mostly straight, but up high.

Observations – I aimed it towards the right, to fix the problem of it curving to the left.

Design Tweaks Applied – Add a staple.

Trial 3

Distance - ___19___ Ft.

Flight Path – Flew high then

Observations – The staple didn’t help.

Which plane do you recommend and why?

I recommend the Delta because even though it was simple, it flew 22 feet. (The Arrow flew further by one foot, but then I added a staple and ruined it.)