

STEAM CHALLENGE

PAPER PLANE LAUNCHER

WALHT: Conduct a science experiment and present via google slides using a scientific method to present your findings.

Success Criteria: I can create my own presentation

Success Criteria: I can report my findings back using the scientific method



Question

Questions That I Asked Myself

- Does the launcher Properly Work?
- Will the Plane go far?
- Will the plane glide straight or will it curve/turn?

Hypothesis

I PREDICT THAT THE PLANE WILL GO FAR AND GLIDE STRAIGHT. I THINK IT WILL GLIDE FOR A FEW METERS. IF IT IS ON THE RIGHT ANGLE I THINK IT WILL GLIDE FAR/STRAIGHT. I ANTICIPATE THAT THE LAUNCHER WILL REMAIN STABLE.

Materials

Paper Aeroplane

- A4 Paper
- Tape/stapler
- Paper Clip

Launcher

- Base - Lego, Wood, Cardboard
- Rubber Band
- Two things to put your rubber band around - nails, twigs, Legos

Procedure

Setting up your Paper Plane

1. Make a paper Airplane.
2. Get a paper clip and bend the edge to make a half hook.
3. Tape/Staple the clip to the edge of the plane. If you're taping the clip then you will have to tape it a few times.

Setting up your Launcher - Lego

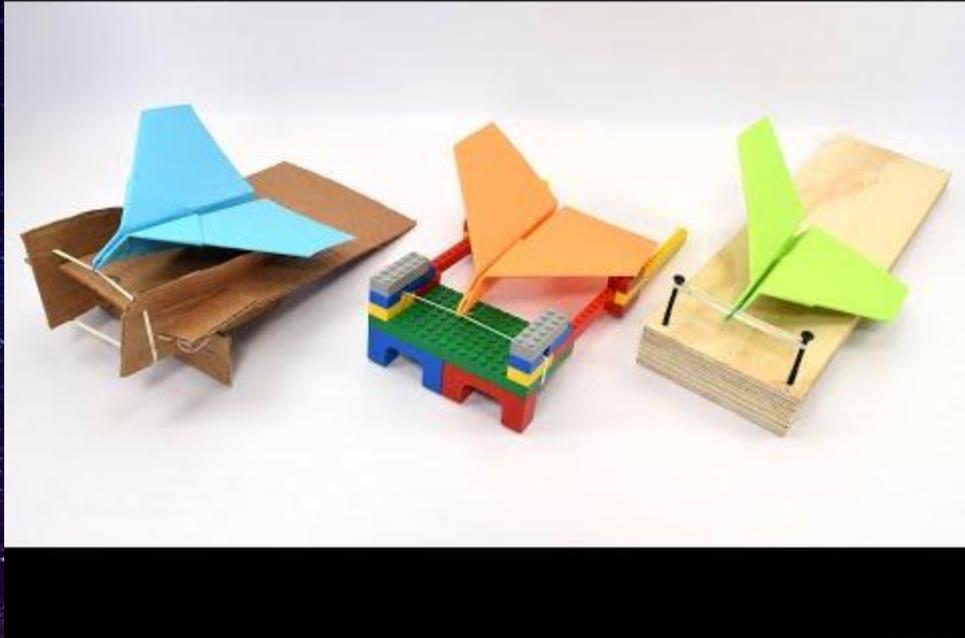
1. Firstly, get out your base and your lego pieces.
2. Secondly, build you legos into a staircase formation with the width of one lego block on the base.
3. Next, make another lego staircase and place it 11 lego bricks away.
4. Now, take your rubber band and put it around both of the Lego structures that you have made.
5. Finally, hook the paper clip which was on the paper plane onto the rubber band and pull the plane back and then let go to see your plane fly!

Results

The first few times that I launched it, the plane kept hitting the roof. Then my other attempts the plane curved and went inside the classroom. I think these results were from the curved bit I added in my plane.

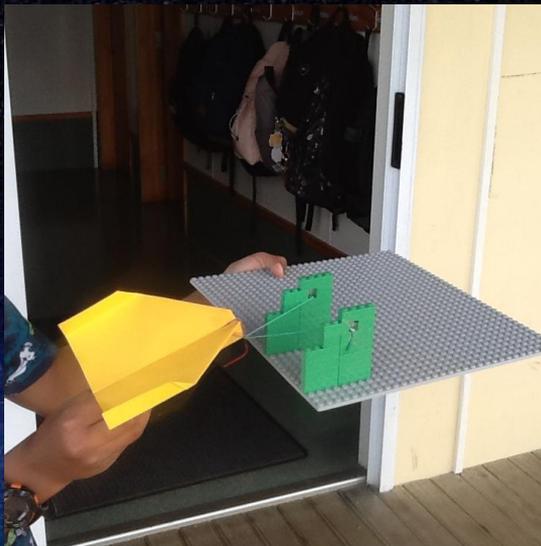
Conclusion

In conclusion, my paper plane flew good but my plane must be flew in an open area because the plane keeps going upwards and curves a lot as well. The plane flys good and the shape of the plane is very sturdy. The Lego launcher we made was also working very efficiently.



VIDEOS

VIDEOS I USED



PHOTOS

**My Plane
and
Launcher**