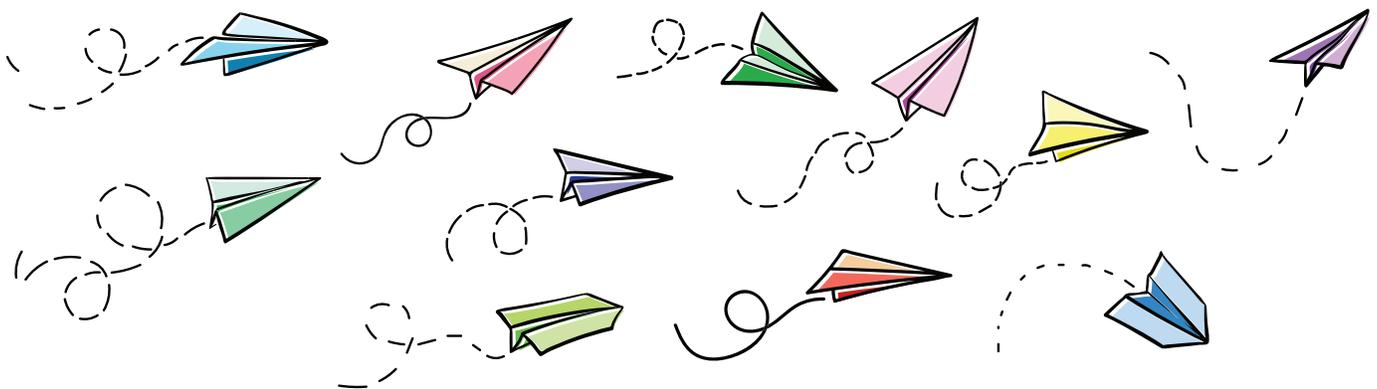


PAPER AIRPLANES



MATERIALS

- Sheet of printer paper
- Glue/tape if needed
- Paper clip if needed
- Scissors if needed

DIRECTIONS

1. Research paper airplane builds online (or check out some of the options we provide below). Try to find several designs and remember that the challenge is to build a paper airplane that travels as far as possible.
2. Once you have found your designs (at least 3), build all of them but do not test them yet.
3. Once they are all completed, label them as Plane 1, Plane 2, Plane 3, etc. Predict which one will go the farthest.
4. Print out the table below or make your own with as many rows as you have planes, and at least 4 columns--one for the name of the planes and one for each trial.
5. Go to a non-busy hallway, your backyard, or any quiet and open area. Use a piece of removable tape to mark an X on the ground at one end of your testing corridor. Be sure to also bring your table and a pencil to record your data.
6. Each plane will have three throws, try to make them as even as possible. Throw them in the order 1, 2, 3, 1, 2, 3, 1, 2, 3.... etc. Be sure that between each throw, you take even steps to collect the plane, counting your steps as you go. Record the step distance in your table.
7. Answer these questions: Which plane went the furthest overall? Which plane went the farthest on average? Which plane performed the worst? Which plane was your favorite? What qualities did you like about the plane, and did these qualities make it faster or fly farther? Why?

For further instructions and helpful tips, visit the links below:

<https://youtu.be/54noZe-0B1c> (probably the best one. 5 designs)

<https://www.youtube.com/watch?v=3dbmsdprJoA> (the three get increasingly difficult)

<https://www.exploratorium.edu/exploring/paper/airplanes.html>

<http://www.10paperairplanes.com/>

PLANE #	TRIAL 1	TRIAL 2	TRIAL 3
1			
2			
3			
4			

For more fun activities, follow us on social media or visit <https://slco.org/clark-planetarium/clark-planetarium-classroom/>.

