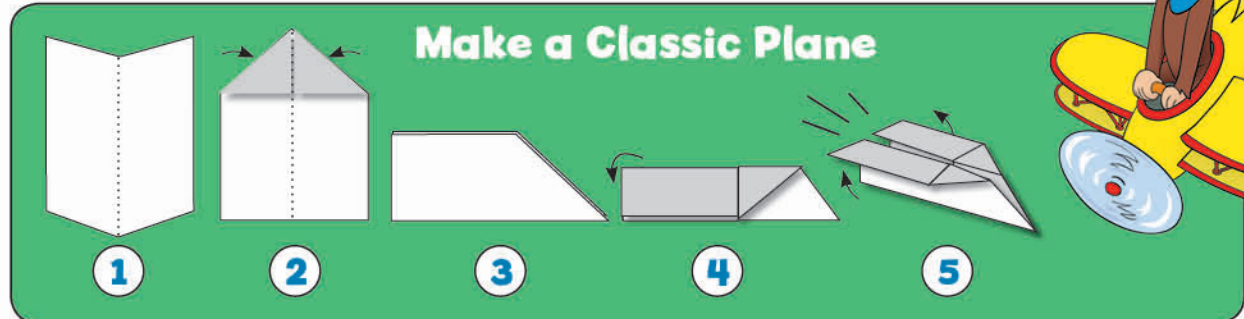




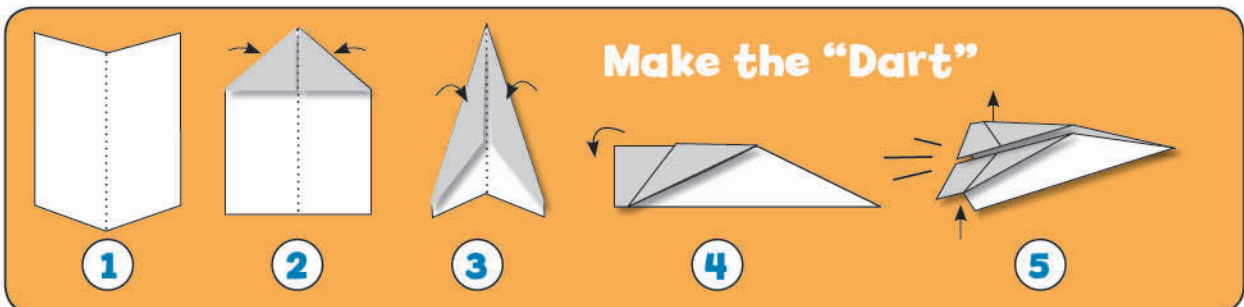
Family Engineering Activities

Exploring Paper Airplanes

Introduce your child to some basic engineering concepts—testing and evaluating—while having fun making paper airplanes. Help your child follow the instructions below. Then you're ready for takeoff!



1. Fold an 8½" x 11" sheet of paper in half lengthwise, then open it.
2. Fold the top corners into the center crease.
3. Fold in half, with folded parts inside.
4. Fold one of the top flaps down, so it's even with the bottom of the plane. Make a crease where you folded it. Do the same with the other side.
5. Lift the flaps to create wings. Then fly it!



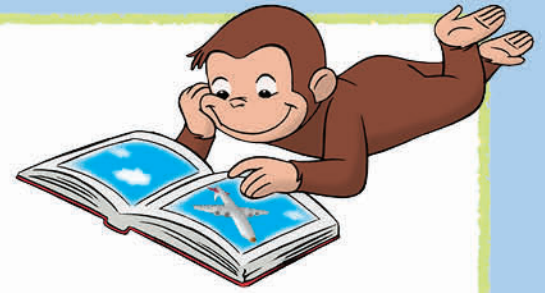
1. Fold an 8½" x 11" sheet of paper in half lengthwise, then open it.
2. Fold the top corners into the center crease.
3. Fold the new top corners into the center crease.
4. Fold in half, with folded parts inside. Then fold one of the top flaps down so it's even with the bottom of the plane. Make a crease where you folded it. Do the same with the other side.
5. Lift the flaps to create wings. Then fly it!

Flight Testing

Have your child evaluate both planes the way an engineer would—by testing them!

Ask your child to examine both plane models and predict which one he or she thinks will fly the farthest. Then have your child stand on a starting line and throw the "Classic" plane. Let the plane stay on the floor where it lands. Next, have your child throw the "Dart." Ask: *Which plane flies farther, the "Classic" or the "Dart"? Why do you think that is?* Repeat the test a couple of times. Are the results always the same, or do they differ?

Read and Find Out More About Engineering and Airplanes



Engineering the ABC's: How Engineers Shape Our World

Patty O'Brien Novak, Ferne Press, 2009

Learn about the world of engineering and engineers—the amazing people who make everyday things work, like computers, movies, airplanes, and toys.

Feel the Wind

Arthur Dorros, Collins, 1990

Find out about the wind: what causes it and how it can be used to help us. Then try a hands-on activity that uses wind—make your own weathervane!

Amazing Airplanes

Tony Mitton and Ant Parker, Kingfisher, 2005

Preschool children will enjoy learning about airports, control towers, runways, the parts of a plane, and even in-flight entertainment! A colorful animal flight crew accompanies them along the way.

How People Learned to Fly

By Fran Hodgkins, Collins, 2007

Children five and older are introduced to the invention of airplanes. It includes a look at people's early attempts to fly as well as the basic concepts behind flight.

Click and Explore

Try these online engineering games at pbskids.org/curiousgeorge/games:

- **Feed Gnocchi:** Create a series of ramps to feed meatballs to George's feline pal, Gnocchi.
- **Day at the Beach:** Help George build his architectural masterpiece—a sandcastle!



Watch Curious George[®]
on PBS KIDS[®]!

Visit pbskids.org/curiousgeorge
and check out curiousgeorge.com
for more online fun.