

To be flying, an object has to stay in the air and not fall down. Some people might tell you that the best paper airplane, the one that goes the furthest of all, is a tight wad of paper. But that isn't flying. The wad is falling from the moment it leaves your hand. To be flying, it has to keep going steadily, and not slow down or dive into the ground.

Only 4 kinds of animals have ever learned how to fly:

insects



birds



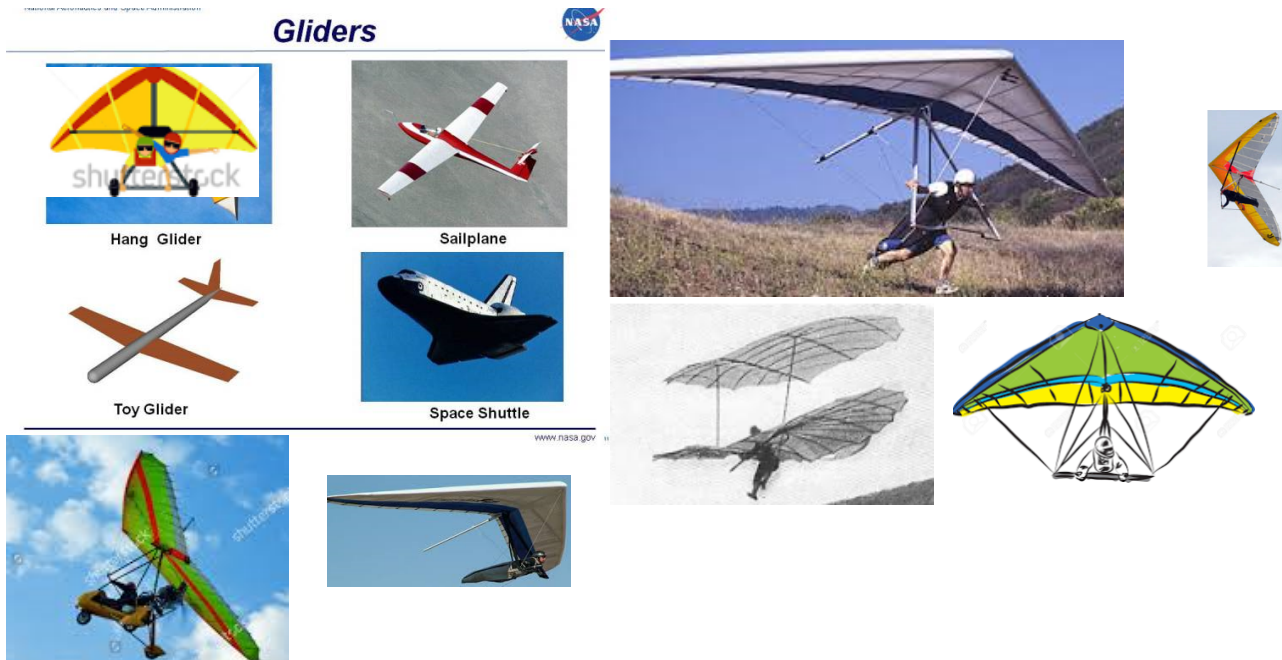
bats



pterosaurs



You will need to bring your construction paper and scissors



A glider is a special kind of aircraft that has no engine thus no thrust. There are many different types of gliders. Paper airplanes are the simplest gliders to build and fly.


Hang-gliders are piloted aircraft having cloth wings. Pilots often jump from high cliffs to gain initial speed

Sailplanes are piloted gliders that have standard aircraft parts, construction, and have levers to control wings and flaps, but no engine. These planes are often towed behind engine plane and releases in mid-air.

The Space Shuttle returns to earth as a glider; the rocket engines are used only during liftoff

Tweaking Paper Airplanes

→ The planes wing have to be Symmetrical
(identical)

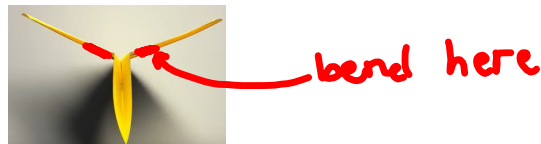
→ From behind  -wings tilt up

→ If your plane is turning, and you want it to fly straight
→ turning to left, make a "bend" on the vertical stabilizer (Rudder) on the right



→ Do opposite for turning Right

→ If your plane (nose)dives, then make a slight bend up on the wing (closest to the vertical stabilizer)



→ If your plane is rolling ("Loop-d-loop") and you want it to fly level, you must bend you outer part of the winds slightly up

