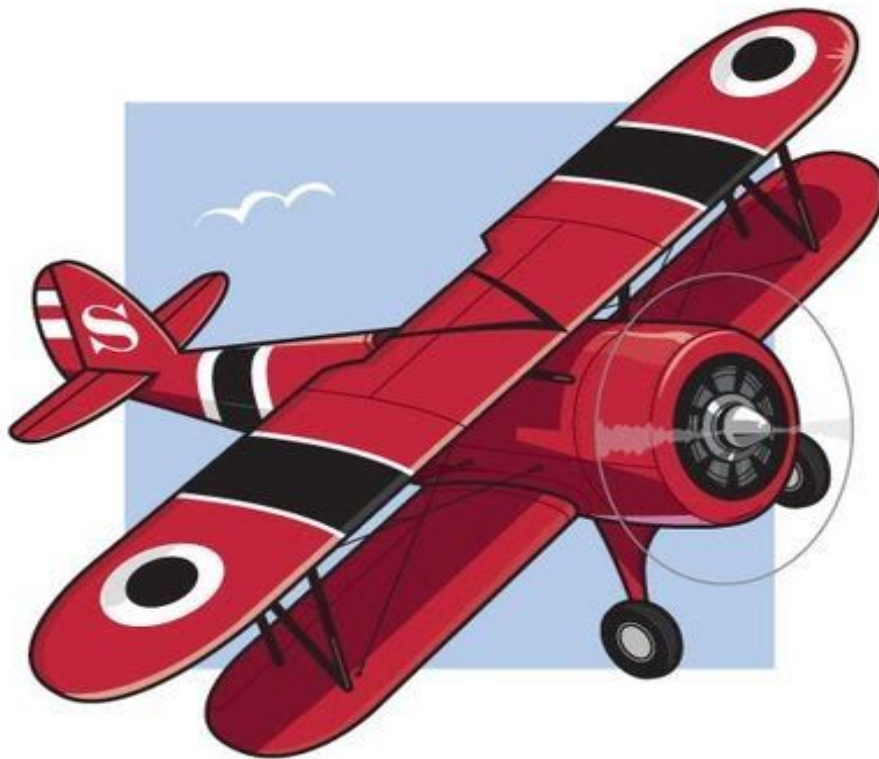


Biplanes

An Art Lesson for Grades 3, 4 and 5 (Week of June 1st).



A **biplane** is a fixed-wing aircraft with two main wings stacked one above the other. The first powered, controlled aeroplane to fly, the Wright Flyer, used a **biplane** wing arrangement, as did many aircraft in the early years of aviation. The Wright Flyer was designed and built by the Wright brothers.

They flew it four times on December 17, 1903, near Kill Devil Hills, about 4 miles south of Kitty Hawk, North Carolina.

Check out some of these artworks showing Biplanes in action:



You will create your own 3 Dimensional biplane artwork using materials found in your home.

Materials:

Colored construction paper, toilet tissue tube, cardboard tissue box, glue, scissors, colored markers, drinking straw.

Follow the Steps Below:



Gather up your materials.



Draw and cut out 2 rectangles for the wings, a shape for the tail and a circle for the propeller. Cut the straw into 2 equal lengths about the length of your pointer finger. Add detail.



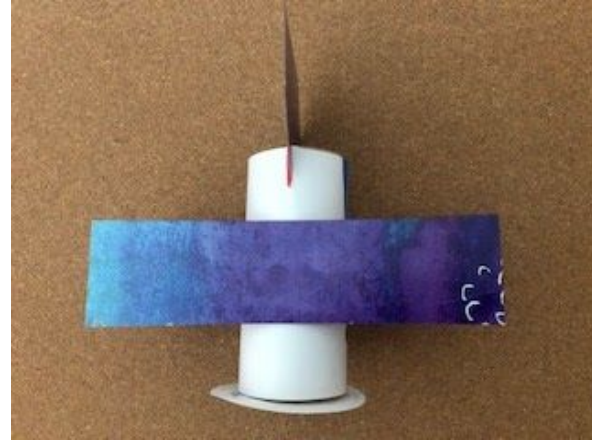
Next comes assembly. To fit the tail in place, make a small cut at the top and bottom on one end of the tube. Slide tail into place.



Attach the wings and propeller using glue. Glue the 2 straw pieces for wing supports. Note the straw support pieces go through a hole made in the bottom wing on both ends.



Front view of completed biplane.



Top view (bird's-eye view) of completed biplane.

Things to consider:

- If you do not have an empty tissue box, any sturdy cardboard will do.
- The wings and propeller are challenging to glue. You may use clear tape if necessary. An adult may help.
- The tail shape can be your own design. I cut a rectangle out then cut off 2 opposite corners at a diagonal.
- To be able to push the straw pieces through the bottom wing, you can make a small hole with scissors or use a holepunch. An adult may help.
- Add 2 small black cut paper circles for wheels to be placed at the bottom end of each straw. See photos in steps above.
- Be sure to add lots of detail to the propeller and fuselage (main body of plane). I added paper covering the tube before detailing. You may do the same.
- Let everything dry before handling.

Vocabulary:

Biplane, 3 Dimensional, bird's-eye view, fuselage, detail, assembly

