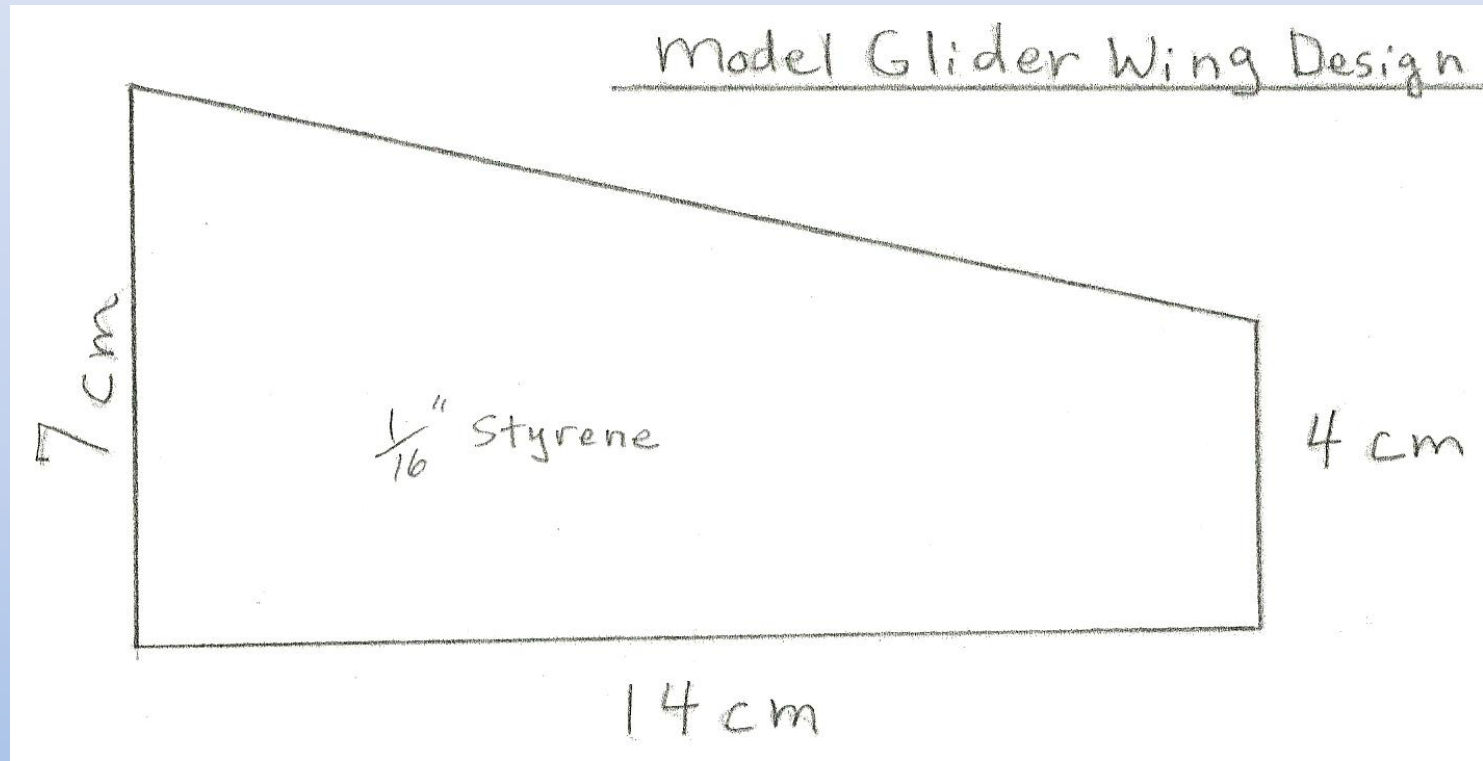


# 5d. Wing and Rudder Design



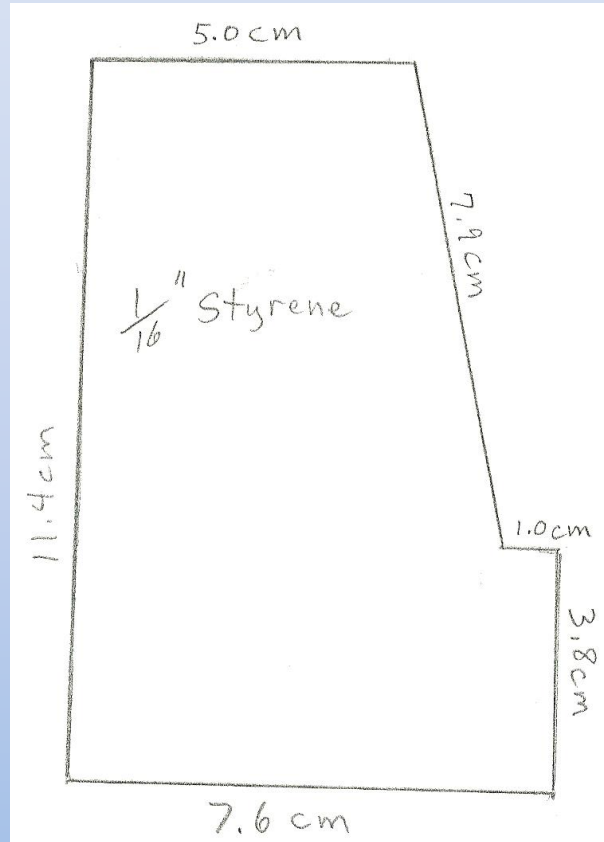
The following are instructions for basic wings and rudder (training wheels). It's more fun to do some research and create your own design, there's a good chance it'll fly better too. For inspiration see: [www.SeaGlide.net/resources](http://www.SeaGlide.net/resources) > Lessons > Animals That Glide (pdf)

# Basic Wing Design



In the bottom of your kit box is a polystyrene sheet to make wings and rudders. Heavy duty scissors such as medical trauma scissors work well for cutting styrene. A utility knife may also be used. Remember to wear safety glasses or goggles.

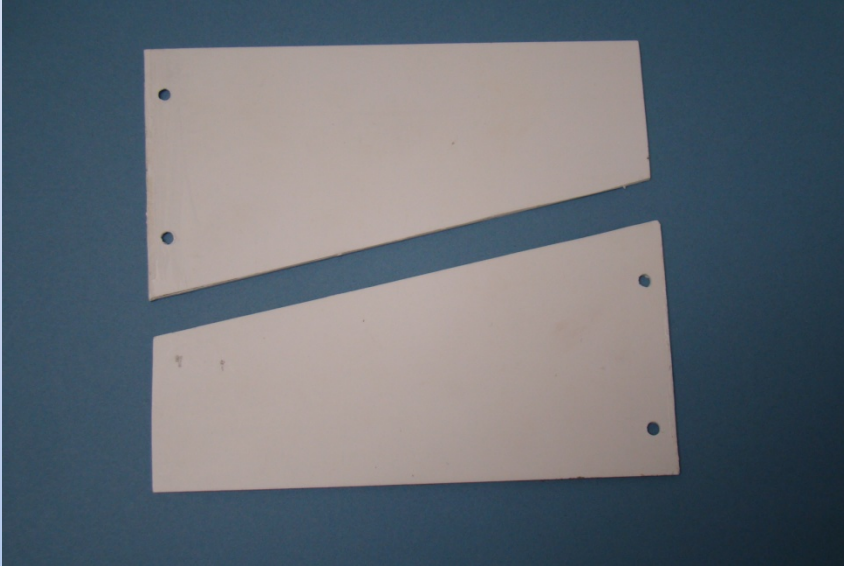
# Basic Rudder Design



Copy this if you must, but it's a lot more fun to do some flight research and create your own wing and rudder designs.

Design your wings and rudder by drawing them on graph paper. Then cut them out and fit-check on your glider.

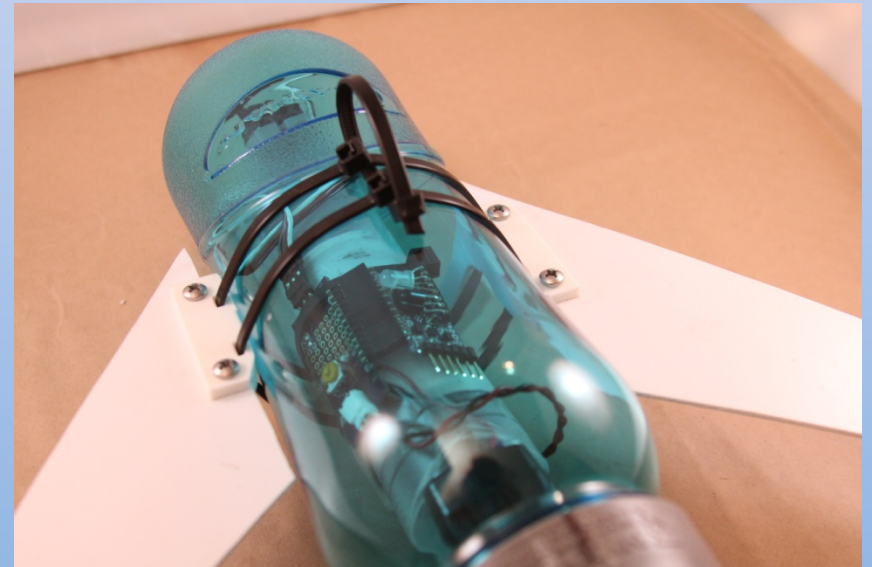
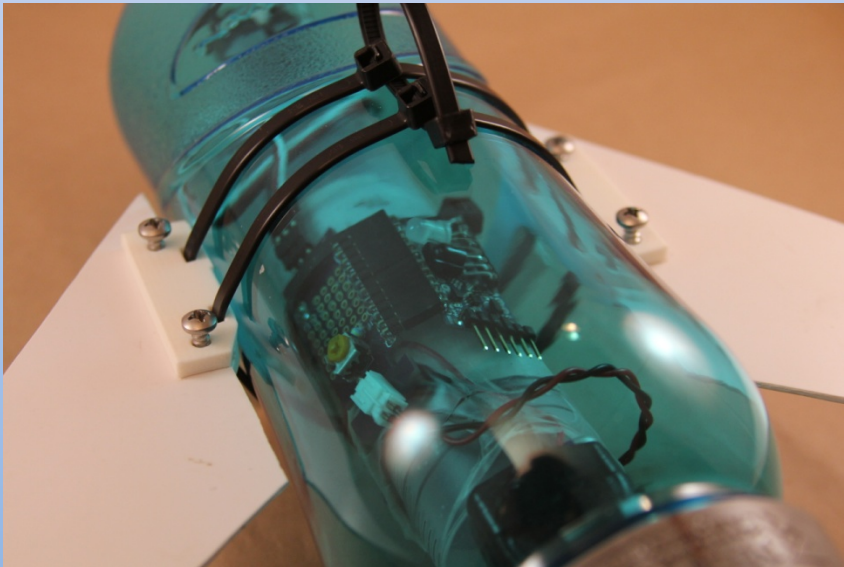
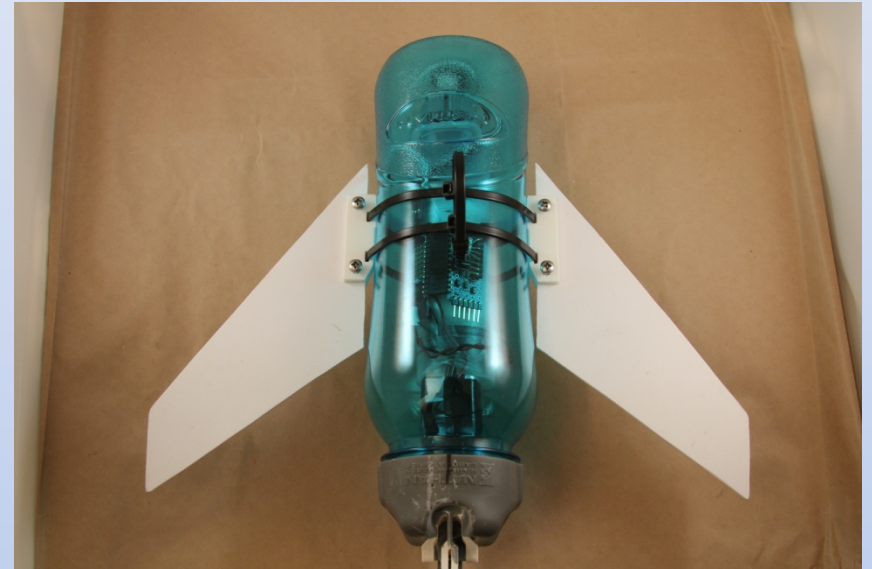
# Drill Wing and Rudder Mounting Holes



Place wings in wing yoke and use 3/32" drill bit from Tools bag to drill holes. You can mark the spot to drill with a pencil. Use a similar procedure for the rudder and rudder mount.

Secure wings and rudder in place with #6 screws from the Buoyancy Engine bag. The rudder mount will require two more screws to control the rudder angle. See "Attach Rudder" photos below.

# Attach Wings



# Remove Spring Clip from Cap



# Attach Rudder

