Bottle Prep and Ballasting

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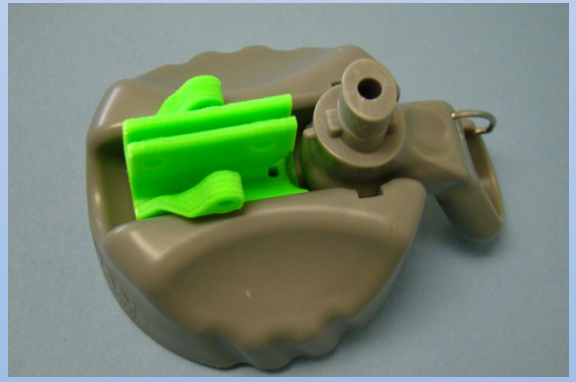
Parts and supplies include the bottle (1), wing yoke and rudder mount with zip ties (2), brass ballast weights and Dual Lock (3), and silicone sealant (4).

Remove Foam Nozzle and Straws

Remove foam nozzle from cap and plastic straws from inside the bottle.

Prepare Cap for Rudder Mount

Remove Air Hole Plug from Cap



Test fit rudder mount by aligning screw hole with air hole in cap.

Secure Rudder Mount

Apply Silicone Sealant

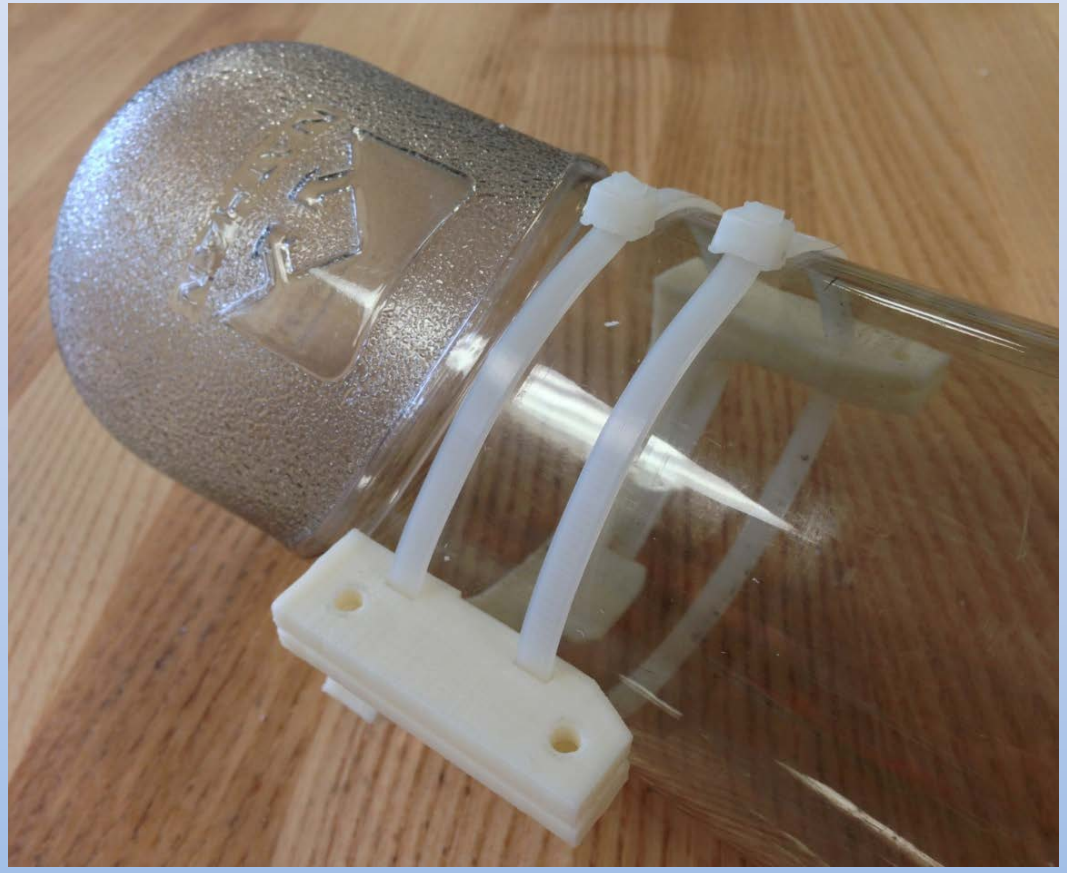
Attach Rudder Mount

Apply silicone sealant to air hole opening and drinking spout slot. Position rudder mount and secure from inside with screw provided.

Seal Inside of Cap

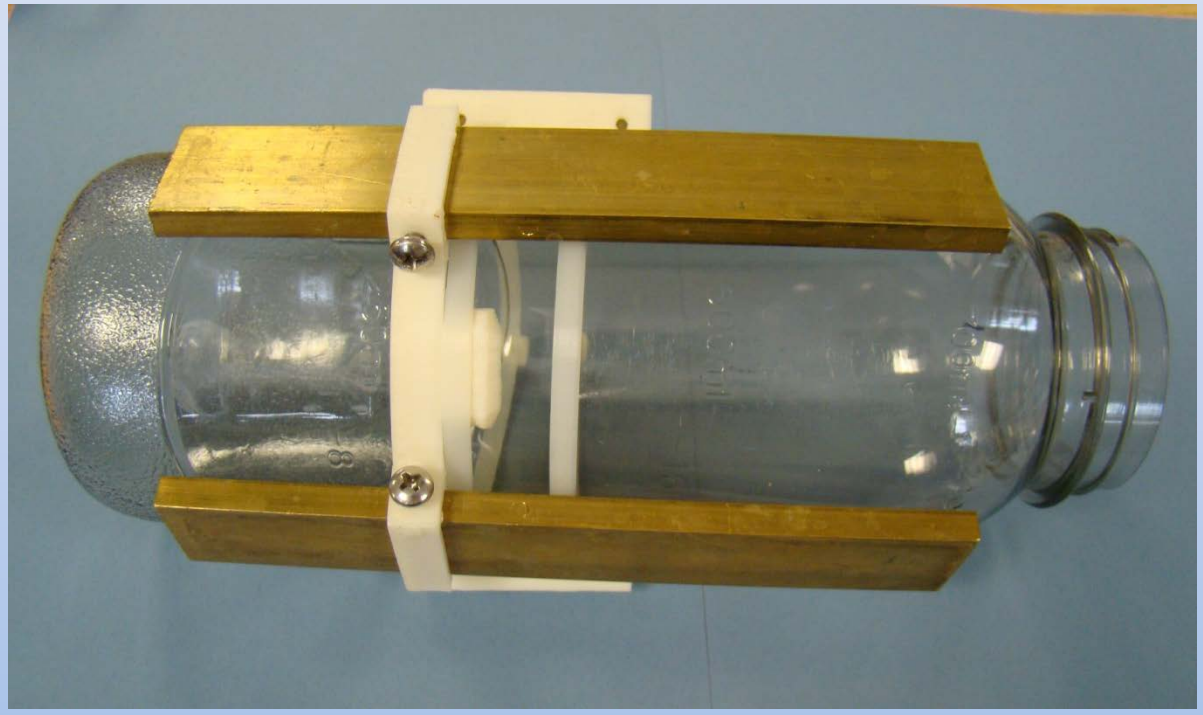
Apply silicone around and over screw head inside cap to further seal opening and prevent electrical short circuits.

Attach Wing Yoke



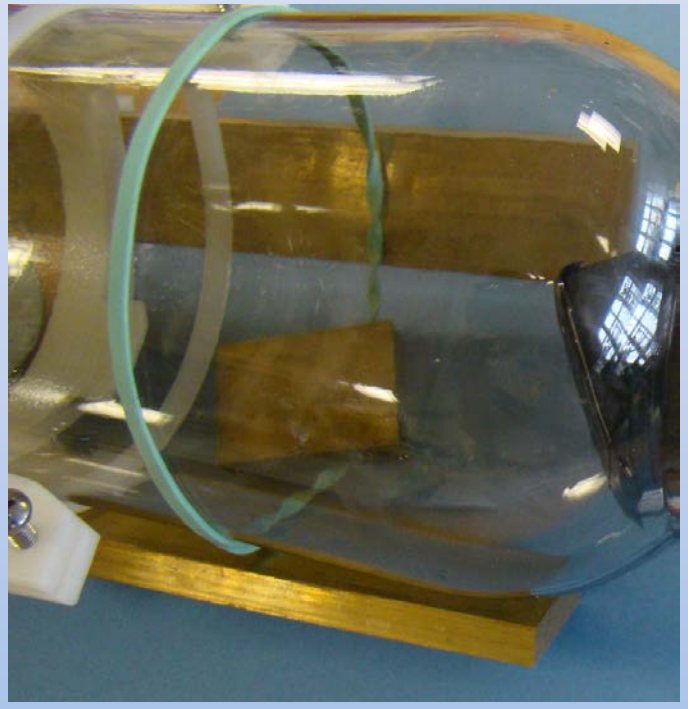
Position wing yoke on bottle and secure with two zip ties provided.

Add Ballast to Wing Yoke



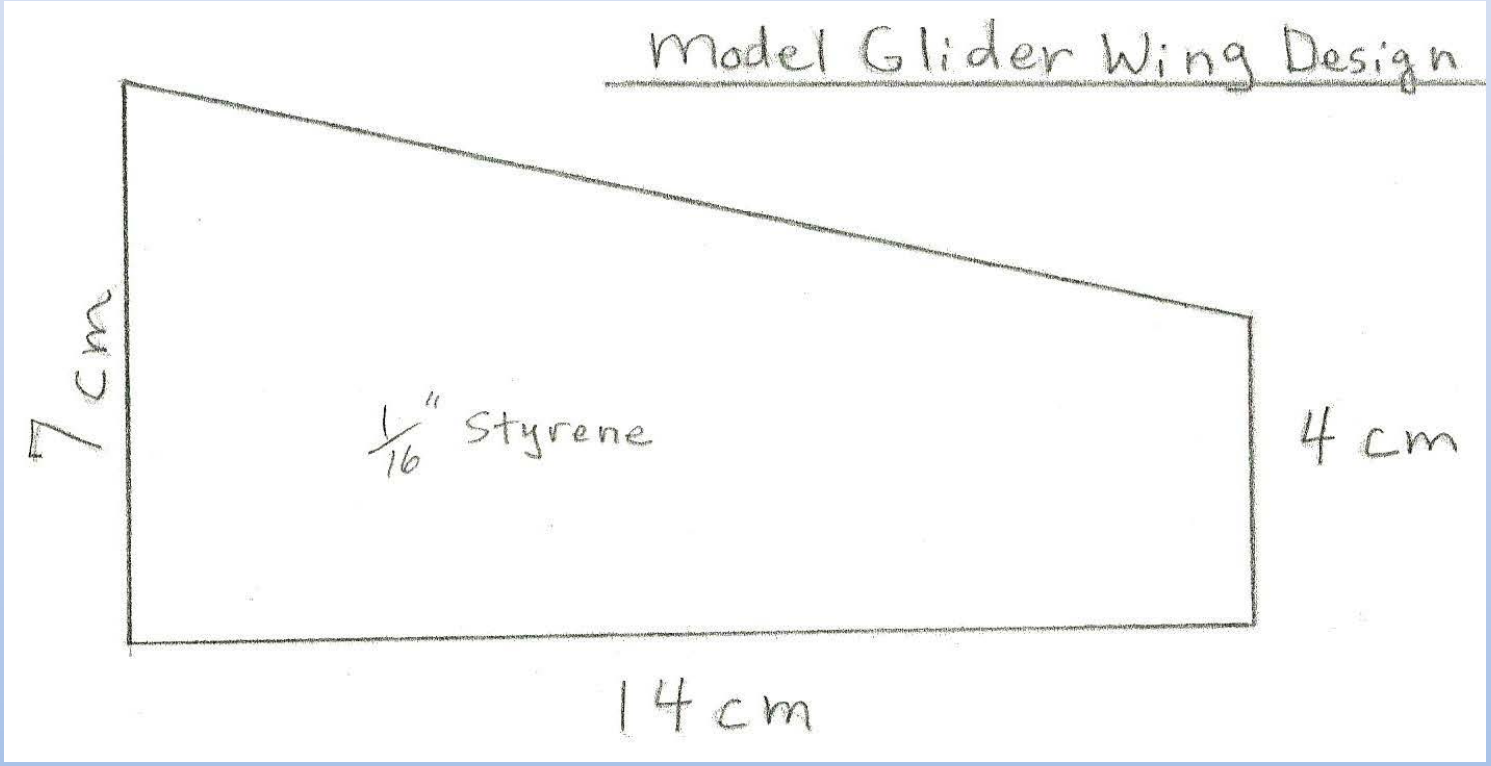
Slide two 6” bars of brass ballast weight through slots in wing yoke. Secure with screws provided.

Add Fine Ballast



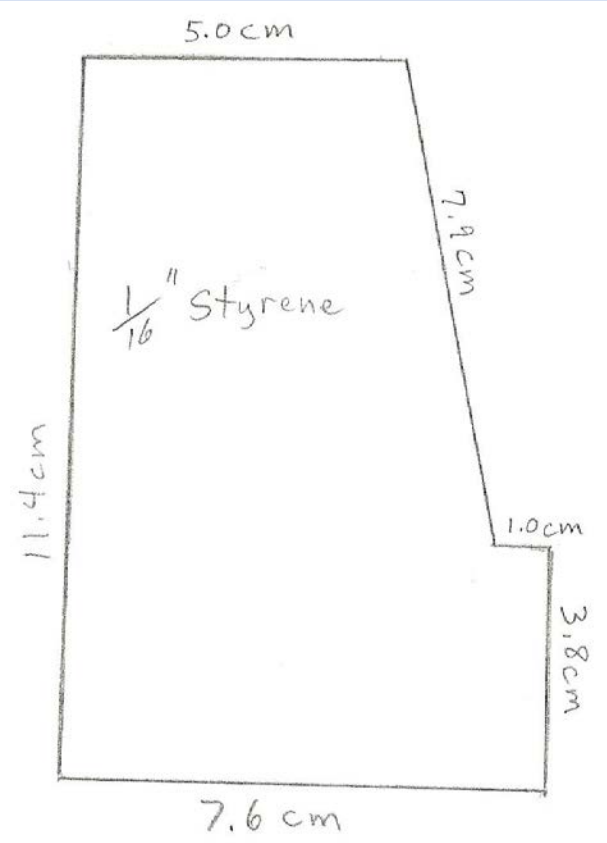
Stick Dual Lock on bottle between larger brass bars. Apply Dual Lock to a brass weight. This can be positioned anywhere on the bottle's Dual Lock for finer ballasting.

Basic Wing Design



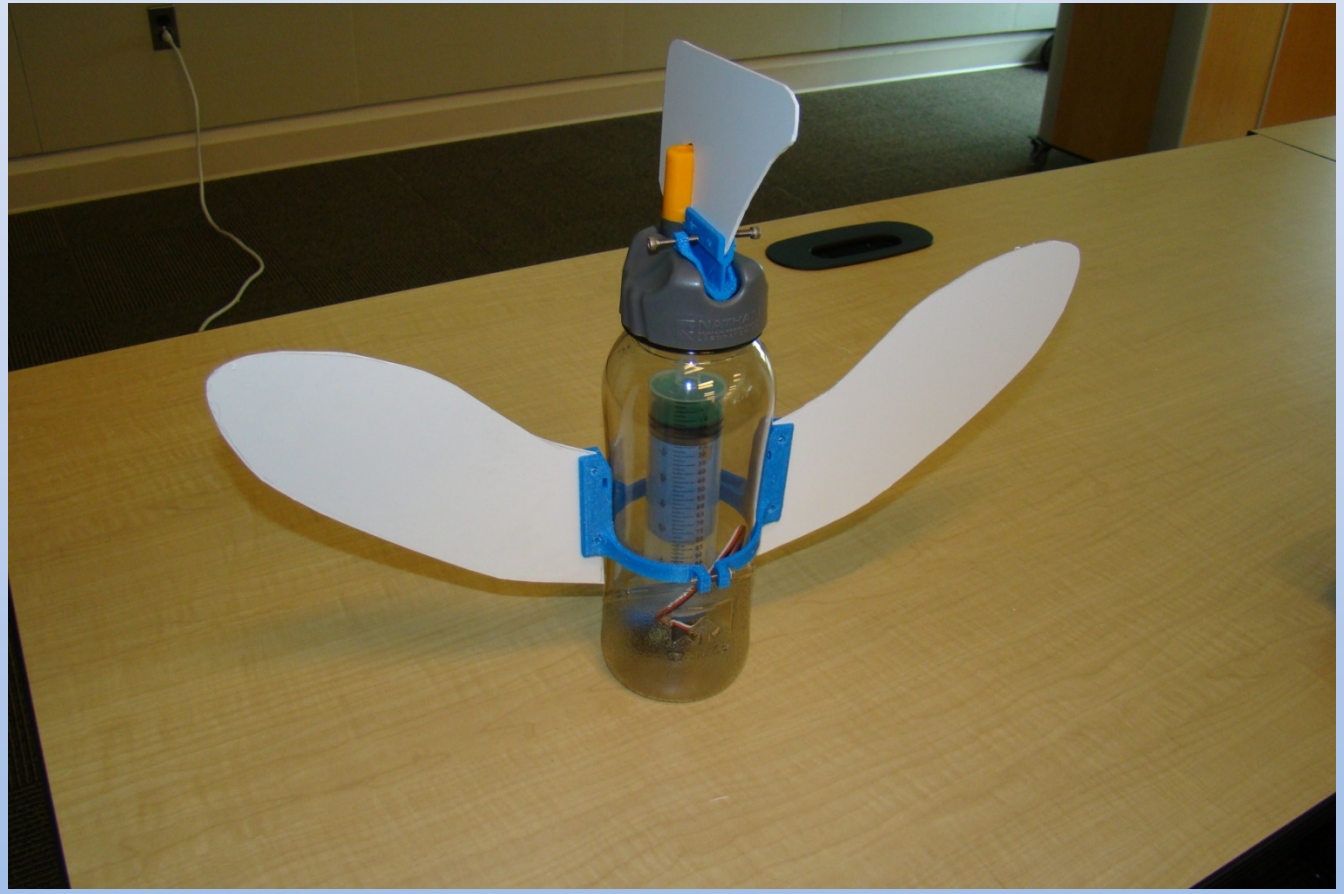
It's best to create your own wing design based on research, however this is a basic design that works. You'll need two wings that can be cut from 1/16th styrene.

Basic Rudder Design



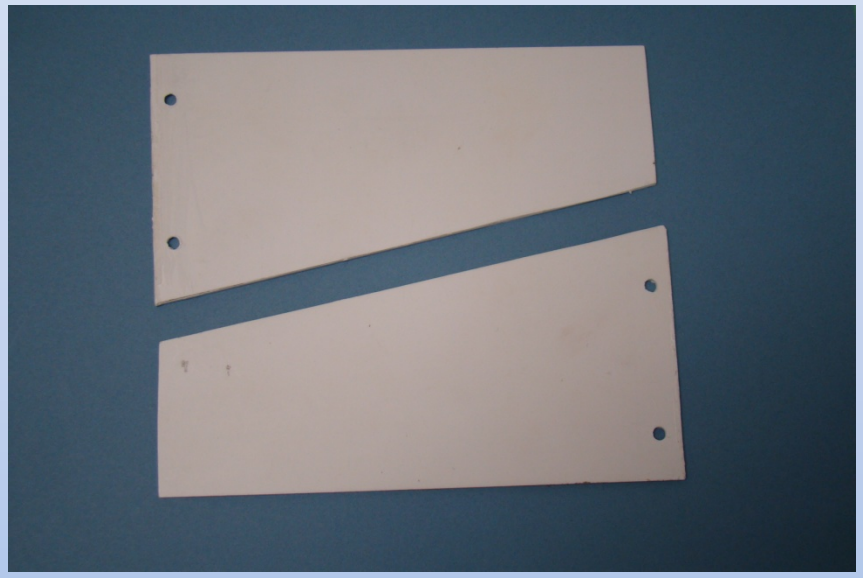
It's best to create your own rudder design based on research, however this is a basic design that works. You'll need one rudder that can be cut from 1/16th styrene.

Test Fit Wings and Rudder



Fit wings into wing yoke and rudder into rudder mount.
Mark drill holes and remove for drilling.

Drill Wings and Rudder Mounting Holes



Drill 9/64” holes in marked positions through wings and rudder. Refit wings and rudder into wing yoke and rudder mount. Secure with screws provided.