

## Coffee Stirrer Boats: (day 2)

Using the lessons learned yesterday with the tin foil boats you will build boats with use a coffee stirrers as the PVC, hot glue as the connectors and fabric as the tarps. The scale for this design is 1 inch (coffee stirrer) is equal 1 foot (PVC pipe.)

### Material:

- One piece of fabric,
- As many coffee stirrers as needed
- 1 piece of plastic wrap (used to cover the boat when you are done)
- hotglue gun

### Approach:

- 1) Determine the maximum dimensions for your boat based on the dimensions of the fabric. (Remember to account for the fact that you need to have all of your seams above the water.)
- 2) Sketch several possible boat designs in your log.
- 3) Assemble the frame using coffee stirrers and hot glue
- 4) Add some reinforcing pieces
- 5) Cover boat with fabric, You may use hot glue to attach the fabric but please do not cut the fabric.
- 6) If time allows cover with plastic wrap.
- 7) Make a detailed to scale drawing of the final boat design. Be sure to include sufficient details that it is obvious what you did.