

SHIPS LOG



The Dread Knot



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Week of 11/28 - 12/2

What we accomplished Monday November 28, 2011: s

- Researched different hauls
- Discussed helpful things we found in the movie.

What we accomplished Tuesday November 29, 2011: z

- Researched boat haul designs
- Found a few different designs
- Decided on the TP-52 design

What we accomplished Wednesday November 30, 2011: s

- Began ship rough sketches
- Finished sketches
- Found more boat designs to sketch (TP-52 = best model)

What we accomplished Thursday December 1, 2011: z

- Began sketching boat ribs
- Finished boat ribs in google sketch up

What we accomplished Thursday December 2, 2011: s

- Resized boat ribs to 12"
- Listened to rocket presentation

Week of 12/5 - 12/9

What we accomplished Monday December 5, 2011: s

- Re-drawing ribs to fit 12" design

What we accomplished Tuesday December 6, 2011: z

- Finished 12" rib design
- Printed
- began building cardboard model

What we accomplished Wednesday December 7, 2011: s

- Finished cutting out boat ribs
- started glue-ing together.

What we accomplished Thursday December 8, 2011: z

- New Tech Tour

What we accomplished Thursday December 9, 2011: s

- Finished gluing on ribs
- Begin putting on screen

Week of 12/12 - 12/21

What we accomplished Monday December 12, 2011: s

- Worked at blood drive

What we accomplished Tuesday December 13, 2011: z

- Applied first coat of bondo
- Sand overnight

What we accomplished Wednesday December 14, 2011: s

- applied second coat of bondo
- Sand overnight

What we accomplished Thursday December 15, 2011: z

- Another coat of bondo applied
- Sand over night

What we accomplished Friday December 16, 2011: s

- check boat measurements
- Apply another coat of bondo
- Sand over weekend
- Started on cradle design

What we accomplished Monday December 19, 2011: z

- Worked on cradle design
- finished design

What we accomplished Tuesday December 20, 2011: s

- Vacuum formed boat

What we accomplished Wednesday December 21, 2011: s

- finish vacuum forming

Week of 1/4 - 1/6

What we accomplished Wednesday January 4, 2012: s

- Began building boat cradle
- Finished deck on ship
- Finished designing display for poster, just need to glue on

What we accomplished Thursday January 5, 2012: z

- Begin sealing deck

What we accomplished Friday January 6, 2012: s

- Finished sealing deck
- Workshop on Rudder

Week of 1/9 - 1/13

What we accomplished Monday January 9, 2012: s

- Put keel on boat
- cut out rudder

What we accomplished Tuesday January 10, 2012: S

- Build rudder
- put plaque on boat cradle
- Test boats

What we accomplished Wednesday January 11, 2012: s

- 4.2 workshop
- finish rudder

What we accomplished Thursday January 12, 2012: S

- Workshop on mast and sails
- put pinstripes on model
- secured rudder

What we accomplished Thursday January 12, 2012: S

- Started chapter 10.1 with Q's
- Started planning rigging for sails

What we accomplished Friday January 13, 2012: S

- Tested boat in water
- Painted bottom
- Finished pin-stripes on model

Week of 1/17 - 1/20

What we accomplished Monday January 17, 2012: S

- Workshop on how to rig the mast
- Finished 10-1 assignment

What we accomplished Tuesday January 18, 2012: z

- Installed sails

What we accomplished Wednesday January 19, 2012: z

- Continued installing sails

What we accomplished Thursday January 20, 2012: s

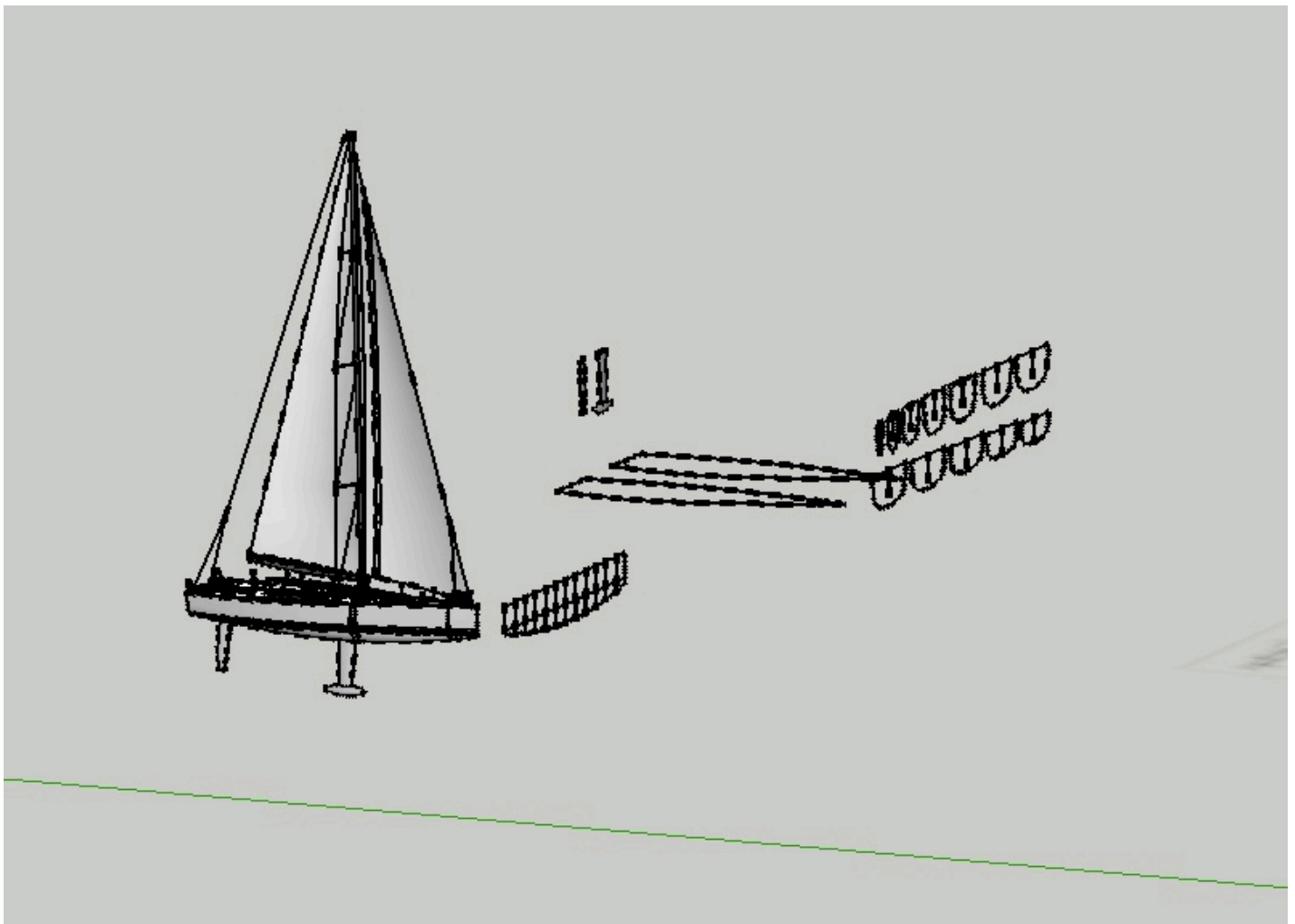
- Work on sales

What we accomplished Friday January 20, 2012: s

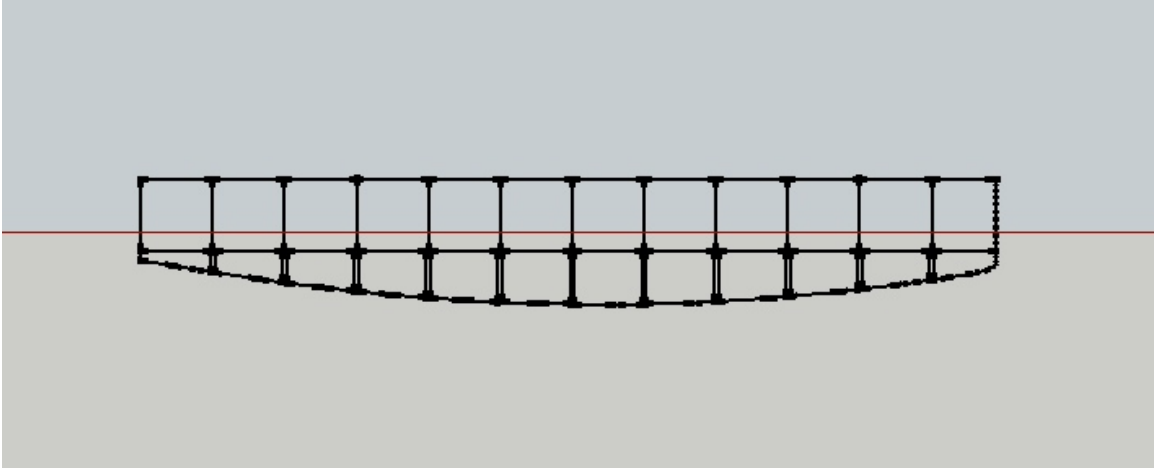
- Work on sales
- Quiz
- Test Boat



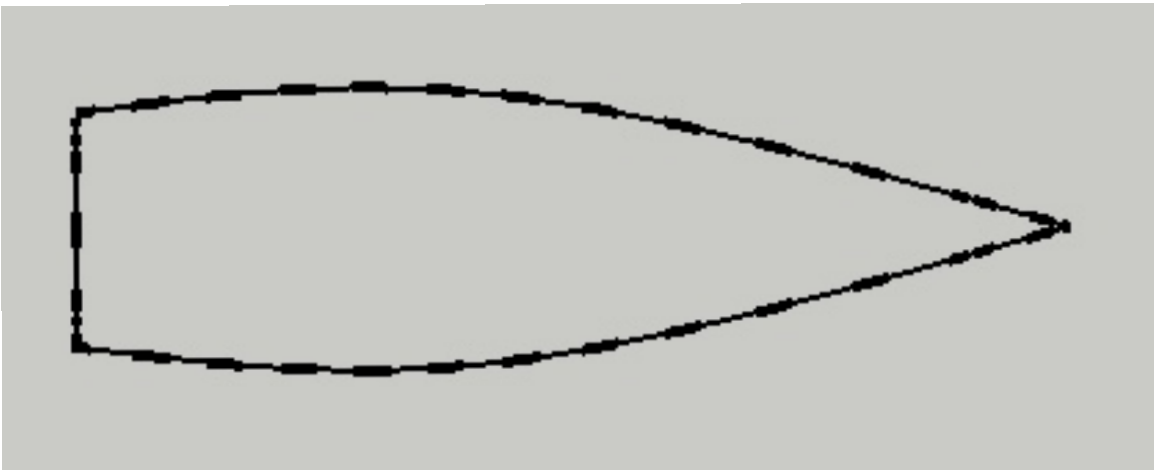
Boat Burgee Design: **S**



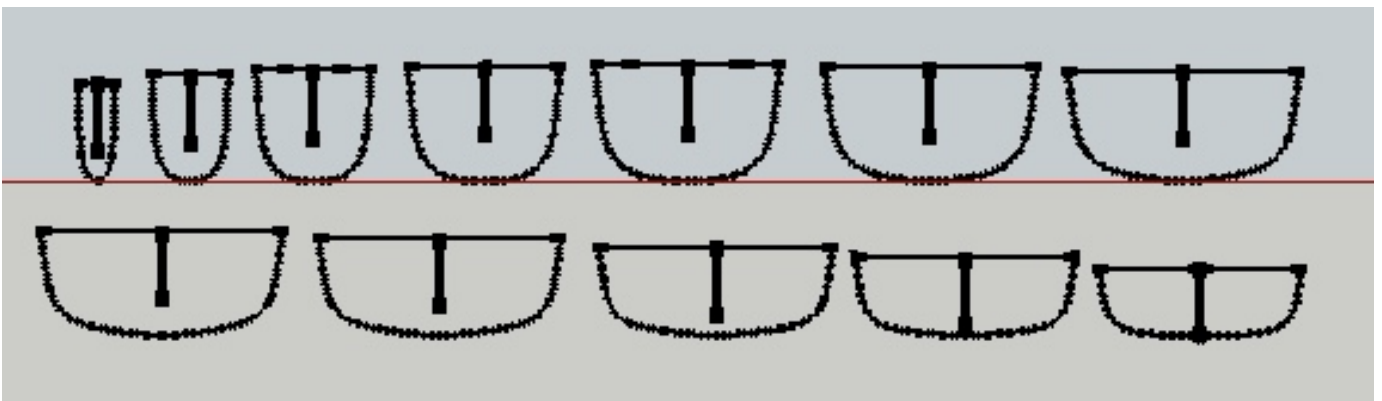
HULL DESIGN (side view)



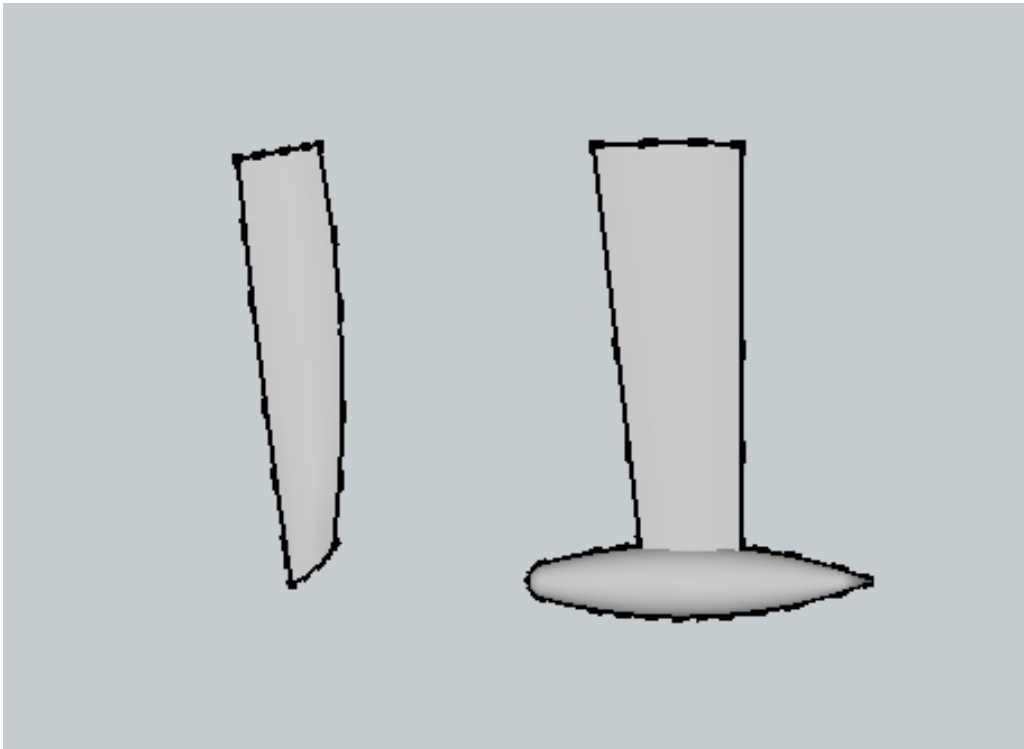
DECK DESIGN (top view)



RIBS



Rudder & Keel Drawing



Stability Plan:

- Ship, Keel, and Rudder are built symmetrical to increase balance. We plan on balancing everything we add to the boat, especially the mast and rigging.

Keel and Rudder Plan:

- For the keel, we drew it to scale size in *Google Sketch-up* and printed it out. When then transferred that sketch onto aluminum flashing and cut it out. After that, we clamped on an oval fishing weight to the bottom to help increase stabilization. We hot-glued the keel on and will develop a rudder that can swivel and stay set in place by a pin; by making the rudder able to move positions, it will allow us to compensate for unknown winds.

Material Plans:

- cardboard
- Wood
- Screen
- Bondo
- Plastic
- String
- Metal flashing
- cloth
- Plastic bags
- Paint

SAIL and RIGGING:



Cradle Design:



Our cradle is designed to support our ship at each end and protect the keel and rudder. In this picture, we finished sealing our deck, gluing on the keel, and also beginning to put on the rudder.

Display Ideas: [Poster]

Plaque on Boat Cradle

TEAM JAMAICA

The Dread Knots



Things to also include in display:

- Basic Facts about Jamaica
- Stability Plan
- Rigging Plan
- Pictures of boat progress
- Facts about our scientists
- Basic facts about boat plan/design

Testing Results
