

# Crab Boat Construction Resources

Updated January 11, 2017

## Environmental and STEM Instructional Resources:

- Chesapeake Bay Program – <http://www.chesapeakebay.net/issues>
- National Oceanic and Atmospheric Administration (NOAA) – <https://cbexapp.noaa.gov/>  
*\*Free if you create a username using your school email address.*

## You Tube Videos:

- Stephen Decatur HS's Boat Construction – <https://youtu.be/Q4xpDQ79rGM>
- Billy Moore: Chesapeake Boatbuilder – <https://youtu.be/STGwyif5K5M>
- Wooden Boat Building - <https://youtu.be/Wuoy1dGOxFI>

## Books

1. Larry S. Chowning. (2007). *Deadrise and Cross-planked*. Tidewater Publishers: Centreville, MD.  
*\*Includes valuable information about the deadrise boat and history.*
2. Paula J. Johnson. (1997). *The Workboats of Smith Island*. The Johns Hopkins University Press: Baltimore, MD.  
*\*Includes deadrise boat plans.*

## Potential Materials to Purchase

(Specific materials used are up to the discretion of each team)

### Boat Structure:

- Thin wood strips



- Sheet Metal and Rivets/Spot Welding



- 3D printed ribs



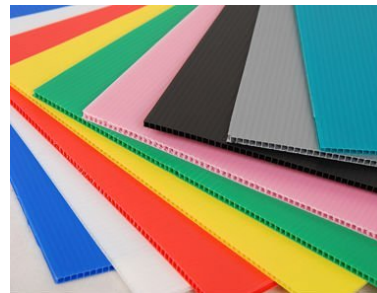
- Divinycell foam



- Foam board



- Plastic Sheets



- Bondo filler



- Caulk

- Glue

Finish:

- Fiberglass resin



- Acrolon



- Other waterproof/marine paints or finishes

### Electronic Components:

- RC controller and FM receiver



- Gear/Servo motor for rudder control



- Speed Controller



- Rechargeable battery packs (up to 12 volts)

### Other Components:

- Propeller

- o 3D printed from Yeggi

<http://www.yeggi.com/q/boat+propeller/?s=tx>

- o Metal from ZippKits

[http://zippkits.com/~zippkits/index.php?main\\_page=index&cPath=8](http://zippkits.com/~zippkits/index.php?main_page=index&cPath=8)

- RC Boat Stuffing Tube, Drive Shaft, and Grease



- Rudder(s) made from any material