Marine Technology Terminology of a Boat

Bow The front

of the boat

Stern The back of the

boat

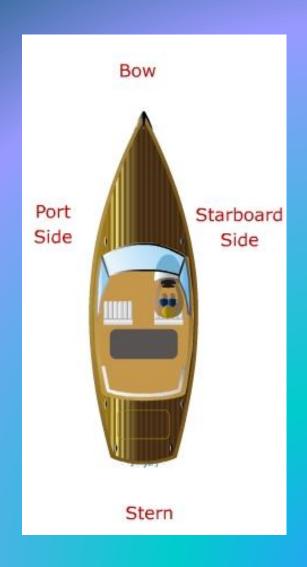
Port Side The left side of a

boat looking

forward

Starboard The right side of Side a boat looking

forward



Forward Toward the front of

the boat

Aft Towards the rear of

the boat

Ahead In the direction beyond

the front of the boat

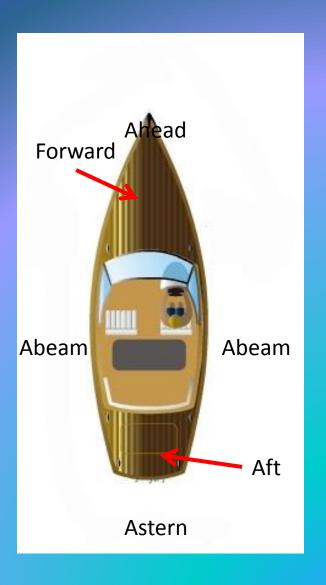
Astern In the direction beyond

the back of the boat

Abeam A direction at right

angles to the side of

the boat



Beam The width of a boat

Freeboard The minimum vertical

distance measured from the water to the

boats upper edge

Draft Minimum depth of

water needed to float a

boat

Keel On a sailing vessel, the

underwater member designed to resist

lateral movement. On other vessels, the main front-to-back structural

member of a framed

hull (Backbone).





Marine Technology Parts of a Boat

Hull A boats shell

Gunwale The upper edge of a boats side



Transom The outside part of a boats stern



Cleats A T-shaped fitting used to tie lines to.



Chock An open metal fitting

which a line is fed through to a cleat



Rudder The underwater

portion of a steering

system

Leg Lower portion of an

outboard motor

Propeller used to push the

boat



Boat Hull Designs

Displacement Hull Boat meant to move through the water, NOT over it with a minimum of propulsion



Planning Hull

Boat whose hull is designed to skim over the water



Flat Bottom

- Inexpensive
- Shallow draft
- Plane easy
- Rough water pound





V or Deep V

- Smoother ride, cuts through waves
- Common for runabout boats





Round Bottom

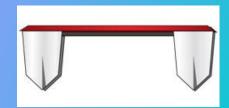
- Moves easily through the water but can be unstable: canoes, kayaks
- Like to roll unless there is a deep keel or stabilizer





Multi-hull

- Catamarans, House boats
- Great stability

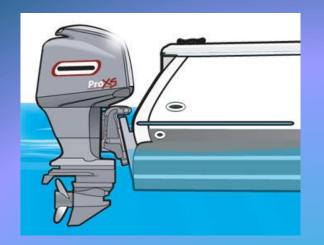




Engine Types

Outboards

- Popular on small boats
- Powerful for size
- can be portable, Easy to steer
- 2 stroke vs. 4 stroke
- Can tilt up out of the water



Inboards

- Car engine inside the hull
- Has a shaft that goes through the hull to the propeller
- Rudder mounted behind the propeller

Stern Drive

Inboard/Outboard

- Car engine mounted inside

 Have a "leg" that swivels side to side and tilts up and down outside on the transom



- PWC/Jet boats Engine inside
 - No propeller, just a nozzle
 - Sucks water in, forces water out
 - No rudder
 - Must have power to be able to steer

