



HELMSMANS MATE



1. Marine Navigation - Chartwork Essentials.

Discover common features & symbols on an Admiralty Chart.
Be able to plot Latitude & Longitude coordinates, measure distance and calculate variation & deviation compass bearings to chart a passage.



2. Rain or Shine - become familiar with Weather Maps.

Can you make a reasonable forecast prediction based on a synoptic chart?



3. Distress Signals Afloat [discussion group]

In small groups; Research different methods of communication signals afloat.

- Do you need a permit to use.
- Advantages & disadvantages of certain methods.
- Correct use & storage of your equipment.

[VHF Marine Radio/ Marine Distress Flares/ EPIRP/ Hand & Whistle Signals]



4. Know the Risks - Complete a Risk Assessment for a Scouting Activity.

Become familiar with the **Safety Afloat** document and guidance for your activity.



5. Complete ONE of the Maritime Exercises below;

- Identify Common Nautical Flags + where they go on a flagpole + how to fold a flag.
- Become competent in any type of Rope Whipping.
- Conservation Campaign - take a nautical wildlife or landscape photo as part of a marine conservation awareness campaign.



6. Research a Historic Voyage with your Patrol/ Watch & plot its passage.

OR host a **Laying-Up Supper** to celebrate the end of the Scouting Year.

HELMSMAN



1. Tidal Tales - how the Tide can impact your Adventures on the Water.

Familiarise yourself with your local Tide Tables & Tidal Stream Atlas.
Learn how to take advantage of these tools - Investigate what Tidal Set & Rate is.



2. DIY Ocean Experiments - Try TWO.

- Air Temp vs. Water Temp - the effects of windchill & body temperature.
- Freshwater vs. Saltwater - characteristics & buoyancy.
- Dirty Water Filtration - I'm not drinking that!
- Secchi Disk - what's in the water.



3. Plan & Complete a Day Expedition Afloat (10 nautical miles).

Emergency Scenario Afloat - show that you can guard against + respond to an incident.
[Concussion/ Man-Overboard/ Hypothermia/ Capsize/ Person Recovery from Water]



4. Discover your Scout Groups Boating Waters - What are your Local Hazards?



5. Inland Waters - Discover Irelands Waterways, Rivers & Canals.

Learn about River Currents and operating Lock Gates. Get access to a Green or Blueway.



6. Conduct TWO of the following Maintenance Exercises;

- Repair a Fibreglass Hole/ Crack.
 - Complete a PFD Inspection & Testing.
 - Explain how a Basic Marine Engine works.
 - Wash, Scrape, Sand, Paint, Varnish a Wooden Boat.
- Implement a maintenance logbook for the equipment you serviced.

Complete **Adventure Skills Stage 5** in Sailing or Rowing or Paddling.