Ship's Log

Amazing Cape Cod Regatta Challenge: NAVIGATION

	Sailor's name:ANSWERS		
	exploring the websites and completing the Inv GATION, answer the following. You can use wo		ew CATegory: TOTAL POINTS:
	BSITE, PODCAST, VIDEO		out of 100
1.	List 3 examples of hazards or dangers to nav coral reefs, wrecks, shallow or exposed rocks objects, sand spits	_	85-100pts 1 st Mate 70-85pts Helmsman 55-70pts Deckhand
2.	List 3 examples of aids to navigation (things that help keep mariners safe). lights, buoys, day marks, fog signals (fog horns, bells, gongs, whistles)		
3.	On a nautical chart, shallow water is colored coloredwhite The numbers. A sounding tells youhow deep	ımbers on nautical charts are	called sounding
4.	Why would sound signals like fog horns, bells, gongs, and whistles be important to mariners? answers vary but something along the lines of nautical charts assume that the mariner is able to see landmarks, aids to navigation (ie. buoys). If it is stormy, foggy, or dark with no lights signals, sound signals give another way to warn mariners—if they can't see the danger or marker, perhaps they can be alerted by sound		
5.	Draw the symbols for the following features found in the Scavenger Hunt in the Message Investigation for Navigation CATegory.)	•	
	Nautical Chart Feature	Draw It!	
	lighthouse	LtHo	
	tower (can indicate a tower, spire, cupola)	•	
	buoy marks	5	
	submerged shipwreck		

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- 6. Dive Deeper! Choose one of the following ways that nautical charts can help people (besides navigating safely in a boat) and explain how they can be helpful.
 - Plan where to put oyster beds.
 - Know where it is safe to anchor for the night.
 - Where a harbor master should place a mooring (a mooring is a buoy fixed to the bottom of a body of water for the purpose of keeping a boat or other object from floating away).
 - Know whether or not a large pier or dock should be built in a certain place.

answers vary

INVESTIGATION

Use NOAA Nautical Chart No. 13229/Side B for this Investigation. The link is on the Amazing Cape Cod Regatta website under the Catboat Crew CATegory: Navigation. Use the "+" button on the chart navigation on the left of the screen to zoom in to Hyannis Harbor and Lewis Bay (1st chart at top of page).

1.	How many towers can you find? (A tower can be a tower, spire, or cupola.)5
2.	Why would mariners want to know where these obvious landmarks are when they are travelling on the water? Answers vary—even though the landmarks are not in the ocean, they can be seen from the water. Mariners can use them as guides to navigate by.
	erged rocks that pose a threat to navigation are labeled "Rk" or "Rks" and are sometimes l. Find the entrance to Hyannis Harbor and Lewis Bay. The shipping lane is shown by a strip.
3.	How is the entrance to the harbor and the boundaries of the shipping lane marked? A) Sand bar B) Buoys C) Large signs
4.	Name 4 large rocks that are hidden or exposed near the harbor entrance. Eddie Woods, Gardiner's, Halftide, Great Rock
5.	What do you think "The Spindle" is?shoal or very shallow area(indicated by blue color and sounding number 2) What does the number 2 inside of The Spindle tell us?it is only 2 ft. deep
6.	Where is the submerged shipwreck located?Hyannis Harbor