



**Round: 1B**  
**Category: Technology- Easy**  
**Time: 4 minutes**



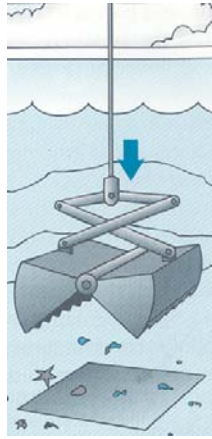
Pick 10 of the following oceanographic projects and using the accompanying image inventory list, identify the most important sampling method or equipment for the job. (2 pts each)  
Use a piece of equipment only once!

Collect zooplankton entrained within warm water eddies off Georgia	
Follow movements of blue marlin around the Hawaiian Islands	
Study barnacle and algae interactions on a high intertidal California rocky coast	
Conduct a 40-day interdisciplinary cruise to the South Pacific gyre via American Samoa	
Dynamics of tidal flushing of Texas Gulf Coast lagoons	
Create 3-D map of submarine terraces and canyons off New Jersey	
Estimate live coral cover vs. dead coral on Florida subtidal reefs	
Characterize sediments in Lake Superior nearshore environments	
Investigate water chemistry variations in the Gulf of Alaska	
Collect manganese nodules from the Clipperton Fracture Zone in the North Pacific	
Collect conductivity, temperature & density profiles within Puget Sound, WA	
Facilitate continuous, real-time data collection off Louisiana in the Gulf of Mexico	
Monitor sea scallop population off the Virginia coast after a fishery closure	
Measure turbidity in Penobscot Bay, Maine	
Check haddock population status off Cape Cod	

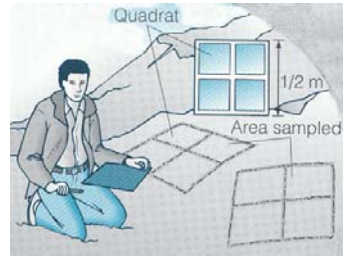
1) secchi disc



2) benthic grab



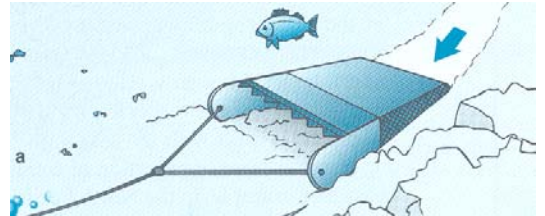
3) quadrat



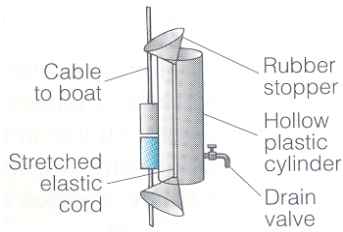
4) current meter



6) bottom dredge



5) Niskin bottle



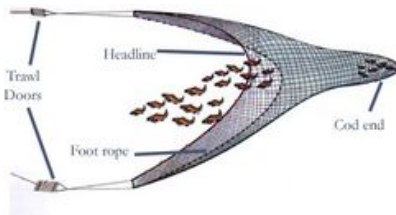
9) ROV, rated to 5000 m



7) 187-foot research ship



8) otter trawl net



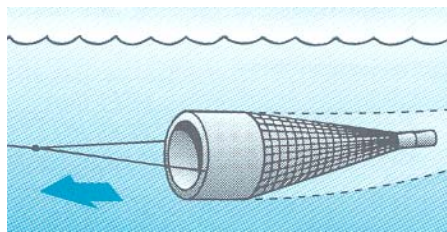
10) pop-up archival tag



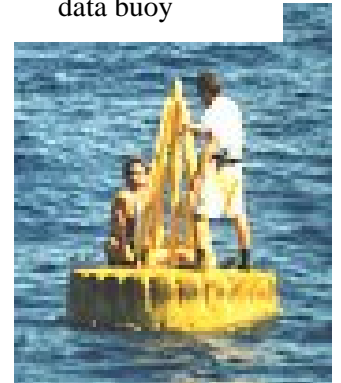
12) expendable CTD



11) plankton net



15) ocean observing data buoy



13) SCUBA gear



14) side-scan sonar



**ANSWER**

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Study barnacle and algae interactions on a high intertidal California rocky coast	<b>3</b>
Conduct a 40-day interdisciplinary cruise to the South Pacific gyre via American Samoa	<b>7</b>
Dynamics of tidal flushing of Texas Gulf Coast lagoons	<b>4</b>
Create 3-D map of submarine terraces and canyons off New Jersey	<b>14</b>
Estimate live coral cover vs. dead coral on Florida subtidal reefs	<b>13</b>
Characterize sediments in Lake Superior nearshore environments	<b>2</b>
Investigate water chemistry variations in the Gulf of Alaska	<b>5</b>
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Facilitate continuous, real-time data collection off Louisiana in the Gulf of Mexico	<b>15</b>
Monitor sea scallop population off the Virginia coast after a fishery closure	<b>6</b>
Measure turbidity in Penobscot Bay, Maine	<b>1</b>
Check haddock population status off Cape Cod	<b>8</b>

Illustrations: Milne, D.H. 1995. Marine Life and the Sea. Wadsworth Publishing