

## Underwater Vehicles sample chart

Create a similar chart, but leave the sections blank. Guide students in creating the information for each section.

Type	Tasks best suited for	Pros	Cons
<p style="text-align: center;"><b>Human Occupied Vehicle (HOV)</b></p>	<ul style="list-style-type: none"> <li>• Humans looking at underwater landscapes</li> <li>• Sampling</li> </ul>	<ul style="list-style-type: none"> <li>• Built to withstand extreme pressure</li> <li>• Have manipulator arms</li> <li>• Have lights</li> <li>• Scientists get to see with their own eyes</li> </ul>	<ul style="list-style-type: none"> <li>• Can not stay under water for extended periods of time</li> <li>• Need special support ships</li> <li>• Pilots must receive special training</li> <li>• Gets cold inside</li> <li>• No toilet</li> </ul>
<p style="text-align: center;"><b>Remotely Operated Vehicle (ROV)</b></p>	<ul style="list-style-type: none"> <li>• Imaging</li> <li>• Mapping</li> <li>• Sampling</li> <li>• Conducting experiments</li> </ul>	<ul style="list-style-type: none"> <li>• Able to go to great depths</li> <li>• Able to stay submerged for extended periods of time</li> <li>• Allows plans to change</li> <li>• Can be used with a variety of boats</li> </ul>	<ul style="list-style-type: none"> <li>• Attached to the ship by a cable</li> </ul>
<p style="text-align: center;"><b>Autonomous Underwater Vehicle (AUV)</b></p>	<ul style="list-style-type: none"> <li>• Surveys for finding seafloor hot springs</li> <li>• Surveying ocean bottom</li> <li>• Mapping</li> <li>• Photos</li> </ul>	<ul style="list-style-type: none"> <li>• Can drift, dive or glide</li> <li>• Communicate with by satellite or underwater beacons</li> <li>• Able to collect a lot of data over an extended period of time</li> <li>• No need for a tether or pilot</li> <li>• Can cover large areas</li> <li>• Long battery life</li> <li>• Good maneuverability</li> </ul>	<ul style="list-style-type: none"> <li>• Battery operated</li> <li>• Needs to be pre-programmed</li> </ul>