|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Organism** | **Domain** | **Kingdom** | **Phylum** | **Subphylum** | **Class** | **Order** |  |
| Extremophile bacteria | Archaea |  |  |  |  |  | prokaryotic cells, can be found in hydrothermal vents |
| Bacteria such as *Staph, Vibrio,*  *cyanobacteria* | Bacteria | Used to be Kingdom Monera |  |  |  |  | prokaryotic cells |
| Algae - Seaweed | Eukarya | Used to be Kingdom Protista |  |  |  |  | Kelp, Sargassum, Sea lettuce |
| Algae - phytoplankton | Eukarya | Used to be Kingdom Protista |  |  |  |  | Diatoms, Dinoflagellates |
| Protozoans - zooplankton | Eukarya | Used to be Kingdom Protista |  |  |  |  | Radiolarians, foraminerferans |
| Seagrasses, mangroves | Eukarya | Plantae | Anthophyta |  |  |  |  |
| Sponges | Eukarya | Animalia | Porifera |  |  |  | No true tissues |
| Jellyfish and corals | Eukarya | Animalia | Cnidaria |  |  |  | Stinging cells |
| Marine worms | Eukarya | Animalia | Annelida |  |  |  |  |
| Clams and oysters | Eukarya | Animalia | Mollusca |  | Bivalvia |  |  |
| Snails | Eukarya | Animalia | Mollusca |  | Gastropoda |  |  |
| Octopus and Squid | Eukarya | Animalia | Mollusca |  | Cephalopoda |  | Intelligent invertebrates, well developed eye |
| Lobster, crab, krill | Eukarya | Animalia | Arthropoda |  |  |  | Most abundant animals |
| Sea star | Eukarya | Animalia | Echinodermata |  |  |  |  |
| Sharks, rays | Eukarya | Animalia | Chordata | Vertebrata | Chondrichthyes |  |  |
| Bony fish | Eukarya | Animalia | Chordata | Vertebrata | Osteichthyes |  |  |
| Sea turtles, sea snakes | Eukarya | Animalia | Chordata | Vertebrata | Reptiliia |  |  |
| Pelicans, osprey, penguins | Eukarya | Animalia | Chordata | Vertebrata | Reptilia |  | Now birds are classified with reptiles |
| Sea otter | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Carnivora |  |
| Polar Bear | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Carnivora |  |
| Walrus | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Carnivora | Family Odobenidae |
| Sea lion | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Carnivora | Family Otariidae |
| Seals | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Carnivora | Family Phocidae |
| Manatees | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Sirenia |  |
| Dolphins, Killer whales, sperm whales | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Cetacea | Suborder Odontoceti |
| Blue whale, grey whale | Eukarya | Animalia | Chordata | Vertebrata | Mammalia | Cetacea | Suborder Mysticeti |

**Marine Organism Classification**