

PRESCOTT UNIFIED SCHOOL DISTRICT
 District Instructional Guide
Marine Science 2019-2020

Grade Level:10-12	Subject: Marine Science	QTR//SEM:3/2	Core Text:Life on an Ocean Planet		
Time Block	Unit / Theme	Content (Nouns)	Skills (Verbs)	Standards Focus	Assessments / Benchmarks
Weeks 19-22	Coral Reefs	Ocean Acidification Coral Polyps Reef Types Zooxanthellae	Recognize the characteristics that classify corals in the animal phylum Cnidaria Identify the structures and functions of a coral poly Distinguish between the types of reefs Identify the physical and chemical requirements of coral Explain the relationship between corals and zooxanthellae Explain ocean acidification and what causes it Explain the ecological, commercial, and economic importance of coral reefs Explain what actions humans can take to protect coral reefs	S4, C3, PO1,2,3 S4, C4, PO4,6	Ocean Acidification Lab Unit Exam
Weeks 23-25	Deep Sea Plate Tectonics	The Earth Inside and Out Theory of Continental Drift Theory of Seafloor Spreading Plate Tectonic Theory Deep Sea Ecosystems	Identify ocean floor geologic and geographic features Apply the theory of seafloor spreading to the development of topographic features Demonstrate ocean floor mapping processes by calculating SONAR data Determine the effect of increased depth on pressure Apply the behavior of light in the ocean to coloration in deep sea animals Relate adaptations of deep sea organisms to their function in coping with abiotic factors of the deep ocean	S6, C1, PO2 S6, C2, PO2,4,5 S4, C3, PO1,2,3	Plate Tectonic Lab Journey to the Seafloor Lab Unit exam
Weeks 26-27	Technology and Ocean Exploration Gas Laws and SCUBA divers	Presssure Gas Laws Bouyancy Movement and Drag	Select the most suitable exploration technology for a given hypothetical mission Relate the hazards of SCUBA diving with the behavior of gas inside the body as pressure changes	S3,C1,PO1,3 S5,C4,PO2,11	