Learning-Focused Unit Map

TOPIC & GRADE LEVEL: Oceanography - 6th Grade

Key Learning(s): The global marine environments are affected by external factors and impact organisms around the world.

Unit Essential Question(s):

How do external factors work together to affect the global marine environment?

Concept - Ocean Water	Concept - Ocean Features	Concept - Moving Ocean Water
Lesson Essential Questions: What makes up ocean water? How do temperature and pressure change as you go deeper in the ocean? What factors affect the density	Lesson Essential Questions: What features make up the ocean floor? What are examples of shoreline features?	Lesson Essential Questions: What causes ocean currents? How do ocean currents affect weather? What factors are involved in
of ocean water? How are ocean organisms classified? What are some characteristics of salt water organisms?	What can scientists learn by studying ocean sediment? How does SONAR help us to learn more about the ocean floor?	causing deep ocean currents? How do the strength and duration of wind affect a wave?
Vocabulary: salinity density sediment nekton plankton benthos phytoplankton zooplankton dissolved gases	Vocabulary: continental shelf seamounts continental edge organic continental slope inorganic continental rise SONAR abyssal plain mid-ocean ridge	Vocabulary: currents wave Coriolis effect period trade winds crest westerlies trough upwelling wavelength turbidity current fetch

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Concept - Moving Ocean Water	Concept – Oceans as a Resource	Concept - Ocean Pollution
Lesson Essential Questions:	Lesson Essential Questions:	Lesson Essential Questions:
How do the Sun and the Moon affect the tides?	What are some important resources that come from the ocean? What forms of energy come from the ocean?	How are we polluting our oceans?
Vocabulary: tides spring tides neap tides	Vocabulary: aquaculture desalination	Vocabulary: pollution