

Oceans Unit Organizer

6th Grade - Crisafulli /Huey /Jordan

Previous Unit

Plate Tectonics or Diseases

Next Unit

Oceans or end of year

Integrated Units

Energy

Plate Tectonics

Astronomy

Core Knowledge Content (Knowledge)

- ✓ Surface and subsurface land features
- ✓ Composition of sea water
- ✓ Currents, tides, and waves
- ✓ Marine Life
 - Classification of marine life
 - Life zones

State and District Guidelines (Patterns)

6.6.G Recognize that patterns exist within and across systems

Standards for Achievement and Performance (Mental Mapping)

Students will-

Identify and compare the relative sizes of the four oceans.

Distinguish between samples of fresh water and salt water and speculate about how the oceans became salty.

Use a hydrometer to understand salinity and density.

Make depth profiles by graphing sets of ocean depth data in order to infer the shape of the ocean floor.

Build a closed system for the evaporation and condensation of water in order to understand the water cycle.

Identify parts of a wave and understand that a wave travels forward but the water does not.

Model the formation of surface and density currents.

Model and understand the effect of the Moon's gravitational pull on Earth and its oceans.

Understand different adaptations to life in the ocean, such as a fish's swim bladder, blubber, and exoskeletons.

Discuss and explore the conditions in the intertidal, neritic and open ocean zones.

Types of Assessments (Creativity)

Students will take a variety of quizzes over the content covered.

Students will demonstrate their understanding of the content through experiments and will record findings in an experiment log.

Students will take a final exam