

# Principle 6: Grades 9-12

## Principle 6: The ocean and humans are inextricably interconnected.

Use of the Ocean

Where People Live

Weather Impacts People

**A.**  
The ocean is essential to the existence of human life on Earth.

**B.**  
People choose to live in coastal areas for many reasons.

**C.**  
Changes in the current patterns in the ocean can affect climate and weather.

**A.1.**  
The ocean has an incredible array of renewable and non-renewable resources that humans use.

**B.1.**  
The ocean is a continuous body of water connecting all the land masses, which in turn facilitates exploration, transportation and commerce.

**B.3.**  
Coastal areas provide moderate weather and climate.

**B.4.**  
Coastal areas provide opportunities for recreation, inspiration and rejuvenation.

**B.5.**  
Coastal areas are a source for cultural heritage.

**C.1.**  
Changes in the weather and climate affect biodiversity, migration patterns and fisheries, which may also adversely affect people.

**C.2.**  
Hurricanes, typhoons, tsunamis and the rising sea level may adversely affect humans living along or near the coastline.

**A.2.**  
Technology has enabled marine fisheries and aquaculture to produce increased amounts of food for humans.

**A.3.**  
The ocean provides most of the fresh water on Earth, and photosynthetic organisms in the ocean provide most of the oxygen on Earth.

**A.4.**  
Many of our medicines, chemicals (e.g., salt) and food products are extracted or derived from a variety of ocean life, including bacteria, algae, sponges and fish products.

**A.5.**  
Energy resources and raw materials are extracted from the sea floor, including mineral ores, crude oil and natural gas.

**A.6.**  
Increased human population, and thus increased demand for resources, as well as improved technology, are having environmental, social and ecological implications on the ocean.

**B.2.**  
The ocean supports the global economy and offers a host of opportunities for careers in commercial realms, recreation and scientific research.

**B.6.**  
Cultural exchange has occurred, and continues to occur, as ships carry people across the ocean.

**C.3.**  
More effective global communication can provide warning to cities and remote areas, allowing sufficient time to minimize the effects of natural disasters on human populations.

See Principle 1: A1

See Principles 4: A9

See Principle 1: A1

See Principle 7: A7

See Principle 7: B

See Principle 3: A8

See Principle 1: D6