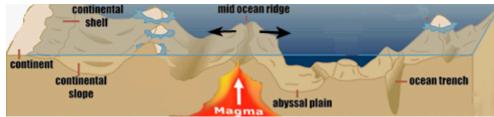
# OCEAN FEATURES

• Oceans cover about 70 percent of the surface of Earth.



- Important features of the ocean floor near the continents are the continental shelf, the continental slope, and the continental rise.
- These areas are covered with thick layers of sediments (sand, mud, rocks).
- The depth of the ocean varies. Ocean trenches are very deep, and the continental shelf is relatively shallow.

## OCEAN WATER

- Ocean water is a complex mixture of gases (air) and dissolved solids (salts, especially sodium chloride).
  - Marine organisms are dependent on dissolved gases for survival.
  - The salinity of ocean water varies in some places depending on rates of evaporation and amount of runoff from nearby land.



## OCEAN MOTION

- The basic motions of ocean water are the waves, currents, and tides.
- Ocean currents, including the Gulf Stream, are caused by wind patterns and the differences in water densities (due to salinity and temperature differences).
- Ocean currents affect the mixing of ocean waters. This can affect plant and animal populations. Currents also affect navigation routes.

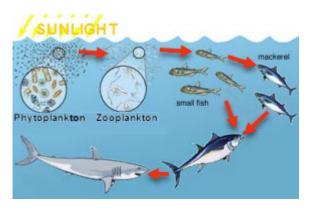


#### OCEAN LIFE

As the **depth** of ocean water increases, the **temperature** decreases, the **pressure** increases, and the amount of **light** decreases. These factors influence the **type of life** forms

that are present at a given depth.

- **Plankton** are tiny free-floating organisms that live in water.
  - Plankton may be animal-like or plant-like.
  - Animal-like plankton are called zooplankton.
  - Plant-like plankton (phytoplankton) carry out most of the photosynthesis on Earth. Therefore, they provide much of Earth's oxygen. Phytoplankton form the base of the ocean food web.
  - **Plankton** flourish in areas where nutrient-rich water **upwells** from the deep.



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