

Describe what a density current is, where it forms, and 3 things that cause one to form.

Explain the differences between a neap tide and a spring tide

Compare and contrast the four main ocean basins.

List at least 2 energy resources and 4 non-energy resources obtained from the ocean floor. Indicate which has the most economic value.

Explain the seasonal cycle of productivity in a temperate ocean and its relationship to the thermocline.

Describe salinity and indicate the major sources of salt in the ocean.

Draw a picture of a continental margin. Correctly label the continental shelf, the continental slope, and the continental rise.

Indicate 2 factors that influence density of ocean water.

Make a table indicating the processes that increase or decrease salinity.

Describe the differences between the continental shelf, the continental slope, and the continental rise.

Make a table with the characteristics of the 3 major tidal patterns.

List 3 factors that influence tides.

Describe what a surface current is, where it develops, and how it develops

Compare and contrast 3 different technologies used to study the ocean floor.

List some effects of an upwelling

Describe a pycnocline and where it is located.

Make a diagram showing the 3 factors that are used to divide the ocean into marine life zones. Indicate and describe the different zones within each of those factors ( intertidal, neritic, oceanic, pelagic, benthic, abyssal, photic, euphotic, aphotic).

Describe a thermocline, where it is located, and why it is important.

Describe primary productivity and the 2 different ways organisms produce energy.

Discuss what limits/controls productivity in a polar ocean vs. a tropical ocean.

Explain 2 ways marine organisms are classified. Describe each of the 3 types.

Describe these ocean floor features: a seamount, a guyot, an abyssal plain, and a hydrothermal vent.

Define the characteristics of a wave; list 3 things a wave depends upon

Describe in detail what happens to a wave as it nears a shore

Describe the characteristics of the surface (mixed) zone, the transition zone, and the deep zone

Explain the differences between terrigenous, biogenous, and hydrogenous sediments. Provide examples of each.

Make a table describing erosional features and depositional features