Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ocean & Seas Guided Notes

The World’s Oceans

An ocean is a large body of \_\_\_\_\_\_\_\_\_\_ that covers around \_\_\_\_\_\_\_ of the Earth’s surface.
The oceans contain \_\_\_\_\_\_ of the earth’s water.
\_\_\_\_\_\_\_\_\_\_\_\_ are scientists who study the ocean and its processes.

The oceans are the \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_.
The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the largest ocean.

Formation of Oceans

When Earth was still a young planet, many active volcanoes existed. As they erupted, lava, ash, and gases were released from deep within the Earth.
One of these gases was \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.

Over millions of years, the water vapor cooled enough to \_\_\_\_\_\_\_\_\_\_\_ and form clouds. Then torrential rains began to fall from the clouds. Eventually, much of the land was covered by
water that formed.

Seas

A sea is one of the \_\_\_\_\_\_\_\_ bodies of salt water, less than an ocean, found on the earth’s surface. The Mediterranean, Arctic and Black Sea are really part of the Atlantic Ocean.

Note: Seas are found on the margins of the ocean and are partially enclosed by land.

Ocean water is a \_\_\_\_\_\_\_\_ of gases and solids dissolved in pure water.
Oceanographers believe oceans contain all the natural elements on Earth. 85 of 90 have been found in the ocean.

Ocean water is \_\_\_\_\_\_\_\_ pure water.
Chlorine (1.9) and sodium (1.1) make up the next largest concentration of elements.
Sodium chloride is \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_.

Salinity

Salinity describes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
Salinity is expressed in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Gases in the Ocean Water

The most abundant gases in ocean water are \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_.
The amounts of these elements vary with depth. They are more abundant at the ocean’s surface where sunlight causes more plant life.

Temperature of Ocean Water

Warm water holds \_\_\_\_\_\_\_\_ dissolved gas than cold water.
When ocean water is cold, like in polar regions, it \_\_\_\_\_\_\_\_\_ and carries oxygen rich water to the ocean depths.
As a result, fish and other animals can live in deep parts of the ocean.