Typography | Visual Communication Design

Coursework Project: Elementary School Poster

Designed a 30x20 inch poster highlighting ocean facts. The piece is intended to display a large amount of information in an accessible format while appealing to the young audience.

Constraints:

- Must use all copy provided in Word document
- All copy must be legible

Contributions:

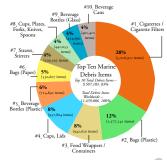
- Designed all vector elements
- Determined appropriate font size, family, and alignment to best display information
- Created web and print poster

Software Used

Skills Used

Adobe Creative Suite: InDesign, Illustrator

Gestalt Principles
Typography



Rubbish/Contaminatio

In one year, 3x as much rubbish is dumped in one year, 3x as mucn ruboss is a unimped into the world's occans as the weight of fish caught. *8.0% of all pollution in seas and occans comes from land-based activities. *Death and disease caused by polluted coastal waters costs the global economy \$1.2 b hillion a year. The annual economic impact of hepatitis from tainted seafood alone is \$7.1 billion. *Plastic waste kills up to 1 million sea birds, 100,000 sea mammals and countless fish each year. Plastic remains in our ecosystem for years, harming thousands of sea creatures everyday.

Coastlines
The total length of the world's coastlines is about 315,000
miles, enough to circle the Equator 12 times. As coastal zones
become more and more crowded, the quality of coastal water will suffer, the wildlife will be displaced, and the shorelines will erode. 60% of the Pacific and 35% of the Atlantic Coast will enode. 60% of the Pacific and 35% of the Atlantic Coast shoreline are ending at a rate of a meter every year. More than half the world's population live within a 100 km or 60 miles distance from the coast. This is more than 2.7 billion people. Rapid urbanization will lead to more coastal megacities containing 10 million or more people. By the end of the millennium 13 out of 15 of the world's largest cities will be located on or near the coast. Growing population in coastal areas leads to more marine pollution and distribution of coastal habitats. Some 6,5 million tons (6,500,000,000 kilo) of litter finds its way into the sea each year (close to one-half of all Americans live in coastal counties). By 2010, 80% of people will live within 60 miles of the coast. * Three-quarters of the world's mega-cities are by the sea. * The Guil' Stream off the Atlantic seaboard of the United States flows at a rate nearly 300 times faster than the typical flow of the Amazon river, the world's largest river. river, the world's largest river

As many as 100 million sharks are killed each year for their mea and fins, which are used for shark fin soup. Hunters typically catch the sharks, do-fin them while alive and throw them back into the occan where they either drown or bleed to death. - Global by-catch (unintended destruction caused by the use of non-selective fishing geat, such as trawl next, longlines and gillnes) amounts to 20 million to most a year. - The annual global by-catch mortality of small whales, dolphins and porpoises alone is estimated to be whales, dolphins and porpoises alone is estimated to be more than 300,000 individuals. • The High Seas (areas of the ocean beyond national jurisdiction) cover almost 50% of the Earths surface. They are the least protected part of the world. Although there are some treaties that protect ocean-going species such as whales, as well as some fisheries agreements, there are no protected

AVERAGE DEPTH: 12,200 FEET (3,720 M)

Carbon Dioxide Absorption Carbon Dioxide Absorption
Oceans absorb between 30% and 50% of
the carbon dioxide produced by burning fossil
fuel. Carbon dioxide is transported
downwards by plankton. Any change in
the temperature of the ocean water,
influences the ability of plankton to
make up carbon dioxide. This has
consequences for the ecosystem, because
plankton form the base of the food web.

Density

The density of ocean water varies. It becomes more dense as it becomes colder, right down to its freezing point of -1.9° C. (This is unlike fresh water, which is most dense at 4° C, well above its freezing point). Water pressure at the deepest point in the ocean is more than 8 tons per square inch, the equivalent of one person trying to hold 50 jumbo jets.

Water Temperature

Water Temperature
Under the commons pressures of the deep ocean, sea water
can teach very high temperatures without boiling. A water temperature
of 40° C has been measured at one hydrothermal wen. The average
temperature of all ocean water is about 3,5° C. Almost all of the deep
ocean temperature are only a little water than forcing (39° F). The
average temperature of the oceans is 2° C, about 39° E.

Volcanic Activity

Volcanic Activity

Monutains: The ocean ridges form a great mountain range, almost 4,0000 miles (64,000 km) long, that weaves its way through all the major oceans. It is the largest single feature on Earth. Highpest Mountain: Mauna Kea, Hawaii, rises 33,474 feet (10,203 m) from its base on the ocean floor; only 13,680 feet (4,170 m) are above sea level.

•Volcanic Activity 90% of all volcanic activity on Earth occurs in the ocean. The largest known concentration of active volcanoes (approximately 1,133) on the sea floor is located in the South Pacific. •The longest continuous mountain chain known to exist in the Universe resides in the ocean at more than 40,000 miles long. • The Monterey Bay Submarines Canyon is deeper and larger in volume than the Grand Canyon. • Mount Everest (the highest point on the Earth's surface as 7,49 miles) is more than 1 mile shorter than the Challenger Deep (the deepest point in the ocean at 6.86 miles)

• Fish supply the greatest percentage of the world's protein consumed by humans. • Most of the world's major fisheries are being fished at levels above their maximum sustainable yield; some regions are severely overfished. • The Grand Banks, the pride of New England fishing for centuries, are closed due to overfishing. • Each year, illegal longline fishing, which involves lines up to 80 miles long, with thousands of baired hooks, kills over 300,000 seabirds, including 100,000 albatrosses. • Global by-carch (unintended destruction caused by the use of non-selective fishing gear, such as trawl nets, longlines and

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Area: About 140 million square miles (362 million sq. km), or nearly 71% of the Earth's surface.

• More than 3.5 billion people depend on the ocean for their primary source of food. In 20 years, this number could double to 7 billion.

•More than 90% of the trade between countries is carried by ships and about half the communications between nations use underwater cables. • Tshing for wild shrimp represents 2% of global seafood but one-third of total by-catch. The ratio of by-catch from shrimp fishing ranges from \$1 intemperate zones to 10:1 and more in the tropics.

The oceans occupy nearly 71% of our planet's surface • More than 97% of all our planet's water is contained in the ocean • The top ten feet of the ocean hold as much heat as our entire atmosphere • The color blue is least absorbed by seawater; the same shade of blue is most absorbed by microscopic plants, called phytoplankton, drifting in seawater

albal by-catch (unintended destruction aused by the use of non-selective fishing ear, such as trawl nets, longlines and

provides the biggest source of wild or domestic pro sur, some 70 to 75 million tons of fish are caught ount around 25 million tons is for human consump laction exceeds that of cartle, sheep, poultry or eggs-tow ways: by capture and by aqua culture. The tota two ways by capture and by aqua culture. The tota two ways by capture and by aqua culture. The tota two ways by capture and by aqua culture. The tota two ways by capture and by aqua culture. The tota the capture of fish to a provide the capture of fish Hernisphere due to the fact that these waters are not Fifteen out of seventeen of the ways fisher that the repoduction card keep up. With the result us are decreasing rapidly. Species of fish endangered salmon, haddock, halibur, and cod. 1 in the 19th of pt to 200 pounds used to be cauthout.

Rising Sea Level
The sea level has risen with an average of $_4$ -10 inches (10 to 25 cm) over the past 100 years and scientists expect this rate to increase. Sea levels will continue rising even if the climate has stabilized, because the ocean reacts slowly to changes. 10,000 years ago the ocean level was about 330 ft (110 m) lower than it is now. If all the world's ice melted, the oceans would rise 200 feet (66 m).

Ice
Antarctica has as much ice as the Atlantic Ocean has water. 10% of
the earth's surface is covered with ice. The Arctic Ocean is the smallest
ocean, holding only one percent of the Earth's seaware. This is still more
than 15 times as much water as all rivers and fresh water lakes. *The
average thickness of the Arctic ice sheet is
about 9 to 10 feet,
although there are some areas as
thick as 65 feet. In the authough there are some areas as unlikely event that all the polar ice level all over the world would rise were to melt, the sea As a result, 85 - 90% of the would be covered with water to the current 71%. • The be split by the Mississippi which would connect the Earth's surfac which would connect the Lakes with the Gulf of

The Arctic produces to 50,000 icebergs annually. The produced in the Antarctic regions is Icebergs normally have a four-year begin entering shipping lanes after

The Antarctic ice sheet that forms 10,000 amount

Recfs

Over 60% of the world's coral reefs are threatened as a result of pollution, sedimentation and bleaching due to rising water temperatures caused by global warming. Global Coral Monitoring Network (G.CRMN) states that currently 27% of all coral reef worldwide has disappeared and around 2050, only 30% will be left. *Tiopical coral reef border the shores of 109 countries, the majority of which are among the worlds' least developer. Significant reef degradation has occurred in 93 countries. *Although coral reefs comprise less than 0.5% of marine species are directly or influently dependent on marine species are directly or influently dependent on the marine species are did marine fash species worldwide, accounting for approximately 1/4 of all marine fash Nearly 60% of the world's remaining reefs are at significant risk of being lost in the next 3 decades. *The major caused coloral of all marine fash Nearly 60% of the cocan flow of the significant risk of being lost in the next 3 decades. *The major caused coloral of edecline are coastal development of compared with 11; 5% of global and area. *The Certa Barier Reef, measuring 1,243 miles, is the largest living structure on Earth. It can be seen from the Moon. *Studies show that protecting critical marine habitats – such as warm-and cold-water coral reefs, seagrass beds and mangrowes – can dramatically increase fish size and quantity.

Oil
Oil is one of the occan's greatest resources. It gives us heat for our homes, endless consumer products, and the ability to run the engines of care, cudless consumer products, and the ability to run the engines of care, of the voted so that the consumer products and the constant of the voted so of care and for the voted so of come oil from the Arabian Gulf. The North Sex, and the Gulf of Mexico reaches all corners of the globe on a daily basis. Oil was also borne from the sex. Millions of years ago, countiess marine microscopic plants (phytoplankton) and animals (sooplankton) lived in the ancient seas as they do today. As they died, the skeller alreamins of these timo organisms settled to the sea floor, mixed with mud and slit, and over millions of years, formed organi-rich sedimentary layers. Other definemes continued to be deposited and further buried the organic-rich sediment layer to depths of thousands of feet, compressing the layers into a rock that would become the source for oil. Over the years, as the depth of the burial increased, pressure increased, along with the temperature. Under such conditions, and over long periods of time, the original skeletal remains of phytoplankton and sooplankton changed, hreaking down into simpler substances called hydrocarbons – compounds of hydrogen and carbon. This process still continues, although it will be millions of years before the next batch of oil is done cooking of coocoop are for oil of year has been academatally supplementations of or occoops are for oil a year has been academatally supplementation of the coache and year as a real foll elegan guarandistic and other non-point sources than was spilled in Prince William Sound by the Excon Videz.

The blue whale, the largest animal on our planet ever (exceeding the size of the greatest dinosaurs) still lives in the ocean; it's heart is the size of a Volkswagen.

The gray whale migrates more than 10,000 miles each year, the longest migration of any mammal.

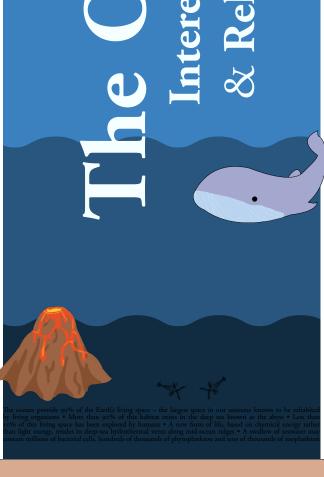
Salinity

Some scientists estimate that the oceans contain as much as 50 quadrillion tons (50 million billion tons = 50,000,000,000,000,000) off dissolved solids. If the sali in the ocean could be removed and spread evenly over the Earth's land surface it would form a layer more than 500 feet (166 m) thick, about the height of a 40-story office building. The ocean's principal dissolved solids are sodium salts (sodium chloride or common salt), calcium salts (calcium chloride or common salt), calcium salts (calcium carbonate or chioride or common sasth; calcium saits (calcium carbonate or lime, and calcium sulfate), porassium salts (possasium salts (magnesium salts (magnesium salts of magnesium salts of magnesium salts of magnesium sulfate, and magnesium bromide). Atlantic sea water is heavier than Pacific sea water due to its higher salt content. The freezing point of sea water depends on its salt content. Typical occan water has about 35 grams of salt per liter and freezes at 19° C.

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Gold!
The worlds oceans contain nearly 20 million tons of gold. If all the gold suspended in the world's seawater were mined, each person on Earth could have about 9 pounds of gold.





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