

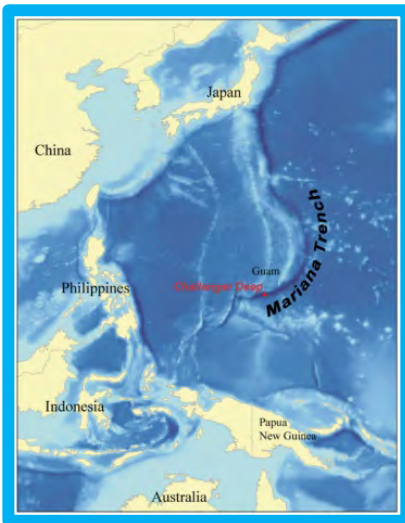
The World's Oceans

Chapter 2

The world's oceans cover 71% of the Earth. The oceans are all interconnected, and they exchange water, animals, plants, and heat. Oceanographers refer to seawater as the world ocean. They use this term instead of saying the Pacific Ocean water, Atlantic Ocean water, Arctic Ocean water and the Indian Ocean water.

Southern Ocean becomes number five

Until the year 2000 when the Southern Ocean was officially recognized there were only four designated oceans. Today there are five: Atlantic Ocean, Pacific Ocean, Indian Ocean, Southern Ocean, and the Arctic Ocean.



Mariana Trench near Guam
NOAA

Pacific Ocean's subduction zones

The Pacific Ocean is the world's largest ocean covering approximately one-third of the planet. It is slowly getting smaller as the Atlantic Ocean expands. Surrounding the Pacific Ocean are subduction zones formed by tectonic plate movement.

The World's Oceans

Quiz 2

Fill in the blanks using words from the Word Bank

1. The Arctic Ocean is almost _____, and it is the smallest and shallowest of all the oceans on Earth.
2. The _____ is an offshoot of the Indian Ocean situated between Africa and the Arabian Peninsula.
3. The world oceans are all _____ exchanging water, animals, plants, and heat.
4. The continents on either side of the Atlantic Ocean generally slope toward the ocean creating _____ continental shelves.
5. One ocean current flows _____ around the Antarctic Continent in the Southern Ocean while the other flows counterclockwise.
6. The _____ is not sited over a continental landmass but instead over an ice cap that reaches 50 m deep in the winter.
7. The five _____ oceans are: Atlantic Ocean, Pacific Ocean, Indian Ocean, Southern Ocean, and the Arctic Ocean.
8. Currents in the _____ flow in two directions each year.
9. The Indus and Ganges rivers have produced the largest deposit of _____ sediment in the Indian Ocean.
10. The _____ is the world's largest ocean covering approximately one-third of the planet.

Word Bank

North Pole	Persian Gulf	river	official	Pacific Ocean
clockwise	Indian Ocean	broad	landlocked	interconnected

Globe Toss

Activity 2

Introduction

Water covers 71% percent of the Earth. The remaining 29% is covered with continents. Today seven continents are recognized. Starting with the largest: Asia, Africa, North America, South America, Antarctica, Europe, and Australia. In this activity, you will be comparing the amount of surface area covered by each ocean and continent.



Inflatable globe

Materials

- Inflatable globe
- Graph paper
- Colored pencils
- Plain piece of paper
- Pencil
- Black marker

Table of Contents

Click on the [hot links](#) to return to the Table of Contents pages.

Chapter 1

The Blue Planet.....	2
Quiz 1 Pretest.....	7
Sunlight-Twilight-Midnight.....	8

Chapter 2

The World's Oceans.....	12
Quiz 2.....	19
Globe Toss.....	20

Chapter 3

Ocean Floor.....	23
Quiz 3.....	28
Moving Plates.....	29

Chapter 4

Zones of Life.....	33
Quiz 4.....	38
Ocean Life.....	39

Chapter 5

The Seashore.....	42
Quiz 5.....	48
Comparing Sand.....	49

Chapter 6

Tide Pools.....	52
Quiz 6.....	57
Tide Pool Game.....	58

Chapter 7

Estuaries.....	61
Quiz 7.....	66
What's in the Water.....	67

SE The Oceans

Chapter 8

Coral Reefs.....	70
Quiz 8	75
Egg Carton Reefs.....	76

Chapter 9

The Drifters.....	79
Quiz 9	85
Floaters & Sinkers.....	86

Chapter 10

Fantastic Fish.....	89
Quiz 10	94
Fish Cards.....	95

Chapter 11

Marine Mammals.....	98
Quiz 11	103
Small to Large.....	104

Chapter 12

Mollusks.....	107
Quiz 12	112
Collecting Seashells.....	113

Chapter 13

Deep Sea Vents.....	116
Quiz 13	121
3-D Black Smoker.....	122

Chapter 14

Tides & Currents.....	126
Quiz 14	133
Charting Currents.....	134

Chapter 15

Tsunamis.....	137
Quiz 15	142
Tsunami Barriers.....	143

SE The Oceans

Chapter 16

Ocean Review.....	146
Quiz 16 Posttest.....	153
Mapping the Oceans.....	154
Answer Key	157
Glossary	159
Books by Myrna Martin	164
Copyright	165