

MY FIRST BRITANNICA



Reference Guide and Index

MY FIRST BRITANNICA

**Reference Guide
and Index**

13



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Reference Guide and Index

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MY FIRST BRITANNICA is designed to be entertaining and informative. Presenting a broad spectrum of life on Earth and of the universe beyond, the set provides children with basic information about subjects they are interested in. The subjects have been specially chosen to convey a cross-cultural, international perspective. In addition, **MY FIRST BRITANNICA** gives parents, teachers, and mentors an up-to-date reference with answers to the questions children are likely to ask.

MY FIRST BRITANNICA consists of 12 main volumes, each organized around a broad subject area that in turn has connections to the subjects of other volumes:

Science and Technology

The Earth and Earth Sciences, Volume 1

Physical Sciences and Technology, Volume 2



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People and Culture

The Arts, Volume 3

People in History, Volume 4

Folklore and Religions, Volume 5

Places

Europe, Volume 6

Asia, Australia, and New Zealand, Volume 7

Africa, Volume 8

The Americas, Volume 9



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Nature

Plants, Volume 10

Birds, Insects, Reptiles, and Aquatic Life, Volume 11

Mammals, Volume 12

At a glance...



© Eric and David Hosking/Corbis

MY FIRST BRITANNICA is designed to hold children's attention with a highly visual presentation while building their study skills. The volumes may be read from cover to cover or used to find a specific fact. The Table of Contents at the beginning of each volume shows how the subject matter is organized and helps children browse through the volume or find information quickly.

Each volume of **MY FIRST BRITANNICA** is divided into two-page articles, or single spreads. The text of each article is written in an age-appropriate, engaging style that will capture the child's imagination while presenting him or her with just the right amount of information.

Included in each spread is a single vivid image or multiple images illustrating the subject and drawing the child in. These images consist of brilliant photographs, original illustrations, informative maps, and portraits of famous people.

Learn More! references at the end of each article point to related information in the same or other volumes. These references help children navigate through the set and understand the connections between subjects. For example, Australia is covered in Volume 7, and topics related to Australia can be found in that volume as well as other volumes:

- Coral, Volume 11
- Great Barrier Reef, Volume 7
- Kath Walker, Volume 3

Still others can be located by using the index to the set:

- An Australian Tale: How Kangaroo Got His Tail, Volume 5
- Cathy Freeman, Volume 4
- Koalas, Volume 12

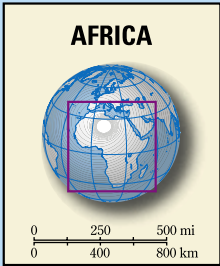
Exploring interrelated topics from volume to volume will help children build their critical reasoning, comprehension, and vocabulary skills.

In this volume, the **Reference Guide and Index**, you will find a variety of useful reference tools, including a richly illustrated mini-atlas, a comprehensive glossary, and a cumulative index to the entire set. There is a helpful guide to using the index on pages 40-41, which shows children how the index is organized and how to find a specific subject. The index should be used along with the Table of Contents in each volume to locate a subject that is covered in more than one volume.

Although **MY FIRST BRITANNICA** covers a broad range of topics, it is not meant to be comprehensive. It is a fascinating resource, however, that children will want to read in its entirety and not just reach for when they want to look up a specific topic. As such, **MY FIRST BRITANNICA** will provide hours of pleasurable browsing for children and prepare them for more serious research in the future.

what this set covers

MY FIRST
BRITANNICA
**Mini-
Atlas**



Africa

AREA 11,717,000 sq mi (30,347,000 sq km)
 Percentage of Earth's land area: 20%

POPULATION 896,402,700 (2006 est.)

LARGEST COUNTRY BY AREA
 Sudan 966,800 sq mi (2,504,000 sq km)

LARGEST COUNTRY BY POPULATION
 Nigeria 134,375,000 (2006 est.)

▲ HIGHEST POINT
 Kilimanjaro, Tanzania 19,340 ft (5,895 m)

▼ LOWEST POINT
 Lake Assal, Djibouti -515 ft (-157 m)

LONGEST RIVER
 Nile River 4,132 mi (6,650 km)

LARGEST LAKE
 Lake Victoria 26,828 sq mi (69,485 sq km)

X COLDEST RECORDED TEMPERATURE
 February 11, 1935, Ifrane, Morocco -11° F (-24°C)

X HOTTEST RECORDED TEMPERATURE
 September 13, 1922, Al-Aziziyah, Libya 136° F (58°C)



Lake Assal, Djibouti.
 © AFP/Corbis



The Cape of Good Hope is at the southern tip of Africa.
 © Nik Wheeler/Corbis



Kilimanjaro, Tanzania.
 © Yann Arthus-Bertrand/Corbis



The Nile River at the Aswan High Dam, Egypt.
 © Lloyd Cluff/Corbis

Africa





Death Valley, California, U.S.

© Royalty-Free/Corbis



Mount McKinley, Alaska, U.S.

© Jeff Vanuga/Corbis

North America

AREA 9,362,000 sq mi (24,247,039 sq km)
 Percentage of Earth's land area: 16%

POPULATION 515,945,700 (2006 est.)

LARGEST COUNTRY BY AREA
 Canada 3,855,100 sq mi (9,984,700 sq km)

LARGEST COUNTRY BY POPULATION
 United States 299,330,000 (2006 est.)

▲ HIGHEST POINT
 Mount McKinley, Alaska, U.S. 20,320 ft (6,194 m)

▼ LOWEST POINT
 Death Valley, California, U.S. -282 ft (-86 m)

LONGEST RIVER
 Mississippi-Missouri River, U.S. 3,710 mi (5,971 km)

LARGEST LAKE
 Lake Superior, U.S./Canada 31,700 sq mi (82,100 sq km)

X COLDEST RECORDED TEMPERATURE
 February 3, 1947, Snag, Yukon Terr., Canada -81° F (-63°C)

X HOTTEST RECORDED TEMPERATURE
 July 10, 1933, Death Valley, California, U.S. 134° F (57°C)



Lowell Lake, Yukon Territory, Canada.

© Charlie Munsey/Corbis



Mississippi River at Iowa, U.S.

© David Muench/Corbis

North America



Amazon River, Brazil.
© Richard List/Corbis



An icy Mount Aconcagua, Argentina.
© S.P. Gillette/Corbis

South America
AREA 6,895,000 sq mi (17,858,000 sq km) Percentage of Earth's land area: 12%
POPULATION 373,993,500 (2006 est.)
LARGEST COUNTRY BY AREA Brazil 3,287,300 sq mi (8,514,000 sq km)
LARGEST COUNTRY BY POPULATION Brazil 186,771,000 (2006 est.)
▲ HIGHEST POINT Mount Aconcagua, Argentina 22,831 ft (6,959 m)
▼ LOWEST POINT Valdez Peninsula, Argentina -131 ft (-40 m)
LONGEST RIVER Amazon River 4,000 mi (6,400 km)
LARGEST LAKE Lake Maracaibo, Venezuela 5,130 sq mi (13,280 sq km)
X COLDEST RECORDED TEMPERATURE June 1, 1907, Sarmiento, Argentina -27° F (-33°C)
X HOTTEST RECORDED TEMPERATURE December 11, 1905, Rivadavia, Argentina 120° F (49°C)



Lake Maracaibo, Venezuela.
© Yann Arthus-Bertrand/Corbis

South America



CARIBBEAN SEA

ATLANTIC OCEAN

PACIFIC OCEAN

ATLANTIC OCEAN

SOUTH AMERICA



0 200 400 mi
0 300 600 km

SOUTH GEORGIA (U.K.)



Asia



Asia	
AREA	17,226,000 sq mi (44,614,000 sq km) Percentage of Earth's land area: 30%
POPULATION	3,930,081,000 (2005 est.)
LARGEST COUNTRY BY AREA	Russia (Siberia) 5,065,400 sq mi (13,119,600 sq km)
LARGEST COUNTRY BY POPULATION	China 1,311,381,000 (2006 est.)
▲ HIGHEST POINT	Mount Everest 29,035 ft (8,850 m)
▼ LOWEST POINT	Dead Sea -1,312 ft (-400 m)
LONGEST RIVER	Yangtze River, China 3,900 mi (6,300 km)
LARGEST LAKE	Caspian Sea (Asia/Europe) 143,000 sq mi (371,000 sq km)
X COLDEST RECORDED TEMPERATURE	February 6, 1933, Oymyakon, Russia -90° F (-68°C)
X HOTTEST RECORDED TEMPERATURE	June 21, 1942, Tirat Zevi, Israel 129° F (54°C)



Mount Everest, Nepal and China.
© David Keaton/Corbis



Yangtze River flowing on the Plateau of Tibet, China.
© How-Man Wong/Corbis

Europe

AREA 4,000,000 sq mi (10,400,000 sq km)
 Percentage of Earth's land area: 7%

POPULATION 691,832,000 (2005 est.)

LARGEST COUNTRY BY AREA
 Russia (European) 1,527,400 sq mi
 (3,955,900 sq km)

LARGEST COUNTRY BY POPULATION
 Russia (European) 104,808,000 (2005 est.)

HIGHEST POINT
 Mount Elbrus, Russia 18,510 ft (5,642 m) [off map]

LOWEST POINT
 Caspian Sea -94 ft (-28.5 m) [off map]

LONGEST RIVER
 Volga River, Russia 2,193 mi (3,530 km)

LARGEST LAKE
 Caspian Sea (Europe/Asia) 143,000 sq mi
 (371,000 sq km) [off map]

COLDEST RECORDED TEMPERATURE
 January (exact date unknown),
 Ust-Shchugor, Russia -67° F (-55°C) [off map]

X HOTTEST RECORDED TEMPERATURE
 August 4, 1881, Sevilla, Spain 120° F (49°C)



Mont Blanc, France,
 Europe's second
 highest point.

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Volga River, Russia.

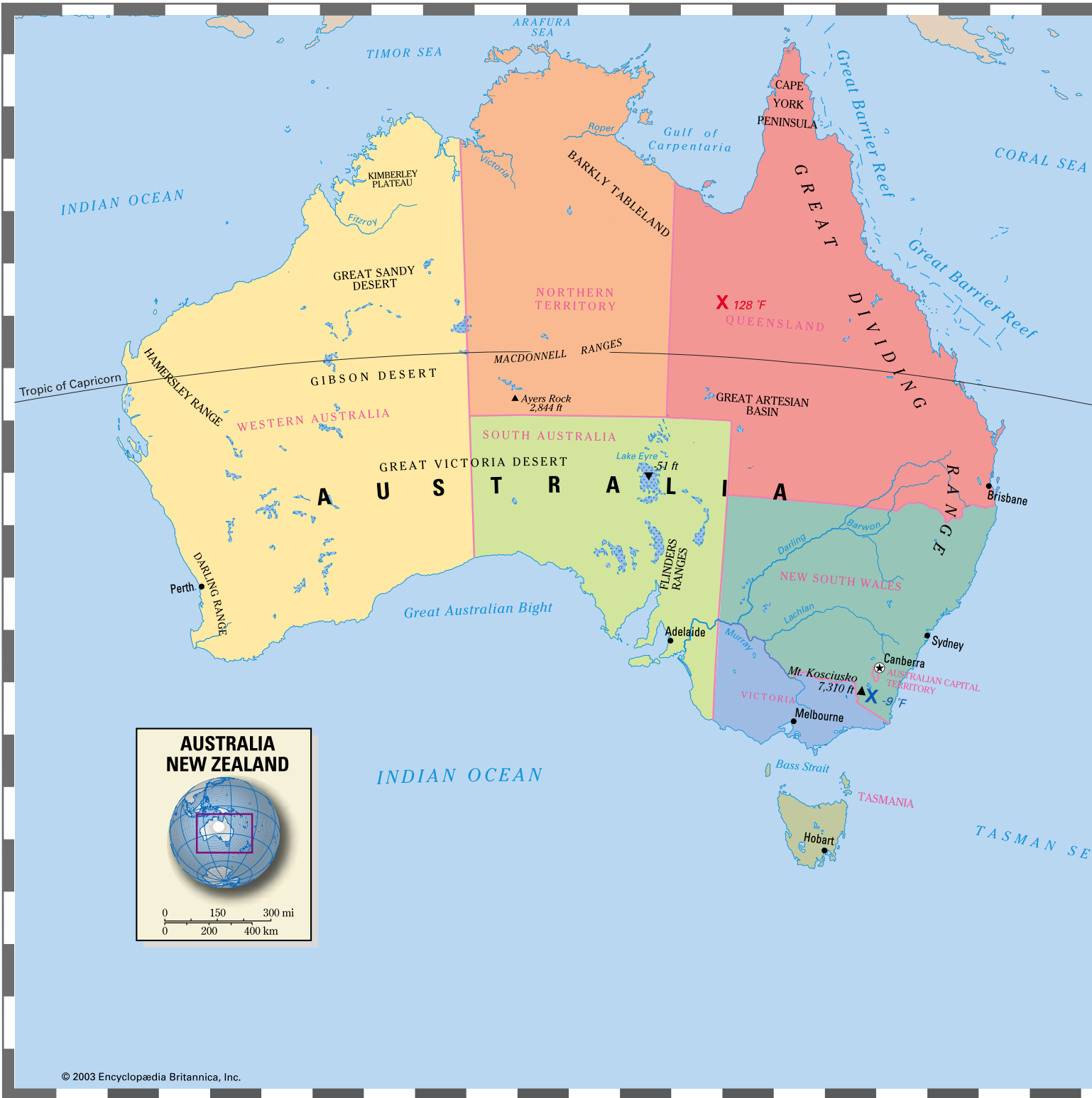
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Sevilla, Spain.

© Nik Wheeler/Corbis

Europe



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Australia



Lake Eyre, South Australia.

© Ted Spiegel/Corbis

Australia (including New Zealand)

AREA 3,074,000 sq mi (7,962,000 sq km)
Percentage of Earth's land area: 5%

POPULATION 24,821,000 (2006 est.)

LARGEST COUNTRY BY AREA
Australia 2,970,000 sq mi (7,692,000 sq km)

LARGEST COUNTRY BY POPULATION
Australia 20,680,000 (2006 est.)

▲ HIGHEST POINT
Australia: Mount Kosciusko, New South Wales
7,310 ft (2,228 m)
New Zealand: Mount Cook 12,316 ft (3,754 m)

▼ LOWEST POINT
Lake Eyre, South Australia -51 ft (-15 m)

LONGEST RIVER
Darling River 1,702 mi (2,739 km)

LARGEST LAKE
Lake Eyre, South Australia 3,700 sq mi (9,600 sq km)

X COLDEST RECORDED TEMPERATURE
June 29, 1994, Charlotte Pass, New South Wales -9° F (-23°C)

X HOTTEST RECORDED TEMPERATURE
January 16, 1889, Cloncurry, Queensland 128° F (53°C)

PACIFIC OCEAN



Darling River, New South Wales.

© Michael & Patricia Fogden/Corbis



Snowy peaks on the Antarctic coast.

© George D. Lepp/Corbis



Water-filled crater in Antarctica.

© Peter Johnson/Corbis



Biologist walks through mountains of Cape Crozier, Antarctica.

© Galen Rowell/Corbis

Antarctica

AREA 5,500,000 sq mi (14,245,000 sq km)
Percentage of Earth's land area: 9%

POPULATION No permanent population

▲ HIGHEST POINT
Vinson Massif 16,066 ft (4,897 m)

▼ LOWEST POINT
Bentley Subglacial Trench -8,327 ft (-2,538 m)

X COLDEST RECORDED TEMPERATURE
July 21, 1983, Vostock Station -129° F (-89°C)

X HOTTEST RECORDED TEMPERATURE
January 5, 1974, Lake Vanda 59° F (15°C)



Crater of Mount Erebus, Ross Island, Antarctica.

© Galen Rowell/Corbis

Antarctica



G L O S S A R Y

abandon to leave without planning to return

abbey place where a community of monks or nuns live and work; also, the church serving that community

abdomen in insects, the end portion of the body that is behind the head and thorax (middle section)

abominable horrible or disgusting

Aboriginal having to do with the original people to live in an area; especially, the original peoples of Australia

absorb soak up

abstract (adjective) in the arts, creatively communicating feelings or ideas about a subject rather than creating a realistic image

abundance great quantity; plenty

abyssal having to do with an area of the ocean that is thousands of feet below the surface of the water

acid a chemical substance, often producing a burning effect when it interacts with another material

acrobat performer who does tricks and physical programs that require strength, balance, and body control, often above the ground

acrylic type of paint

adaptation in biology, a change in an organism or its parts that allows the organism to survive better in its environment

administrative having to do with managing or supervising the functions of a business, organization, or government

aerialist performer who does tricks and feats above the ground or in the air

affordable reasonable in price

agent something that produces an effect

aggressive openly hostile or tending to approach with great force or energy

agriculture farming

alas unfortunately or sadly

algae (singular: **alga**) group of organisms that are similar to plants and live mostly in the water

alpine mountainous

altar raised place on which sacrifices are offered or religious ceremonies are performed

altitude the distance of an object above a specific level (such as sea level) on a planet or other heavenly body

ambassador person who officially represents his or her own government in a foreign country

amphitheater building with seats rising in curved rows around an open space where games and plays take place

ancestry all the family members who lived before a particular individual

antenna (plural: **antennas**) 1) in biology, a slender organ on the head of some insects and crustaceans (such as shrimps and lobsters) that allows them to sense their environment; 2) in technology, a dish, rod, or wire for sending or receiving radio waves or other energy

antics playful or funny actions

Arab member of a people originating in the Arabian Peninsula and now inhabiting much of the Middle East and North Africa

arc a curved line

archaeology (adjective: **archaeological**) the science that deals with past human life as shown by fossils, tools, and other material left by ancient peoples

archbishop high-ranking churchman in some Christian churches who supervises church government in a very large area

architecture the art of designing and building structures, especially buildings that can be lived and worked in

archives place where public records or historical documents are kept

arena enclosed area used for public entertainment

aristocratic having to do with the upper social classes

artificial made by human beings rather than occurring in nature

aspect part, feature, or quality of something

asteroid small, often rocklike heavenly body orbiting the Sun

astronomy (adjective: **astronomical**) the science of the heavenly bodies and of their sizes, motions, and composition

atmosphere the envelope of gases that surrounds a planet

autobiography life story written by the person it is about

autonomous independent and self-governing

axis imaginary pole going through the center of the Earth or other heavenly body

bacterium (plural: **bacteria**) tiny one-celled organism too small to see with the unaided eye

baleen a hardened substance from 2 to 12 feet long found in two rows along the upper jaws of certain whales

banish to force or drive away

barrier object or structure that blocks the ability to reach another object or place

basilica Roman Catholic church that has special ceremonial privileges

basin in geography, the area of land drained by a river and its branches

bask to lie or relax in a warm place

bay part of a coastline that curves in toward land

bazaar marketplace where many kinds of goods are sold; especially, such a marketplace in Asia or Africa

Berber member or descendant of a people who originally inhabited North Africa, before the Arab conquest in the 7th century AD

betray to lie to or go back on one's word

biologist person who studies living organisms and life processes

blockbuster huge, successful event

bog wet spongy ground

bond connection or friendship

botanical (noun: **botany**) having to do with plant life

boulevard wide avenue often having grass strips with trees along its center or sides

bovine animal group that includes cattle, oxen, bison, and buffalo

boycott the refusal to deal with a person, group, or country, usually in order to show disapproval or to force a change in behavior

Braille a system of writing for the blind in which letters are represented by raised dots

bray to make a sound like the loud harsh call of a donkey

breadth width

brew to prepare by steeping (soaking) or boiling in hot water

broadcast to send out a program or message to a public group, usually by radio, television, or the Internet

buff an off-white color

burden weight or load to carry

burrow deep hole or tunnel made in the ground by an animal for shelter

bushman in Australia, a person who lives in the bush (wilderness)

cactus (plural: **cacti**) flowering plant of dry regions that has water-storing fleshy stems and, usually, sharp spines

calorie unit that measures the amount of heat energy that food provides to the body

camouflage colors and patterns that allow a person, animal, or thing to blend in with its surroundings

campaign planned activities designed to lead to a particular result

canal artificial waterway for boats or for draining or supplying water to land

canoe a small, light, and narrow boat having sharp front and back ends and moved by paddling

canopy overhead covering

captive (noun: **captivity**) (adjective) taken and held in a cage or as a prisoner; (noun) one who has been taken or held in a cage or as a prisoner

caravan group of pack animals or of vehicles traveling together one behind the other

carbohydrates plentiful, energy-producing natural substances that are formed by many food plants eaten by animals

carcass dead body or leftover parts of an animal

cargo goods transported in a ship, airplane, or other vehicle

cartridge sealed container

cassava tropical plant that has a thick underground rootlike part and can be made into a number of foods

cast (verb) to form a shape by pouring a liquid into a mold and letting it harden

cathedral large Christian church where a bishop is in charge

ceramics objects made out of clay baked at high temperatures

cereal starchy seeds of certain grass plants grown for food

chairman person who leads a meeting or an organization

champagne a sparkling white wine

channel narrow passageway between two areas of water

chapel small, sometimes private place for prayer or special religious services

charitable done to serve the needs of the poor or sick

château castle or large country house, especially in France

chemical one of the combined substances making up living and nonliving things

chemist scientist who studies the makeup and properties of physical substances and the changes that they go through

choreographer creator of a dance

circulate to flow

citadel castle or fortress that protects a city

citrus kind of tree or shrub grown in warm regions and having thick rind (skin) and fleshy fruits, including oranges, grapefruits, and lemons

civil rights the social and personal rights of a citizen

civil war war between opposing groups of citizens of the same country

civilization the way of life of a people at a particular time or place; also, a fairly advanced culture and technology

classical traditional in style

climate average weather in a particular area

clockwise in the direction that a clock's hands move, as viewed from the front

cloudburst sudden heavy rainfall

cobbled made of rounded stones larger than a pebble and smaller than a boulder

colony (adjective: **colonial**; verb: **colonize**) 1) in general, a settlement established in a distant territory and controlled by a more powerful and expanding nation; 2) in biology, a group of similar organisms that live together in a particular place

comet chunk of frozen space debris that has a shiny tail and orbits the Sun

commanding grand and powerful

commandment law or rule for living

commerce (adjective: **commercial**) the buying and selling of goods, especially on a large scale and between different places

commission (verb) to order to be made; (noun) an order granting the power to perform various acts or duties

commoner person who is not of the noble or upper classes

communism (adjective: **communist**) system of government in which all property is owned by the state or community and all citizens are supposed to have a share in the total wealth

composer person who writes music

composition literary, musical, or other artistic work

concentrated condensed, or made thicker, by removing water

conductor the leader of an orchestra

conflict disagreement, struggle, or fighting

Congress the main lawmaking group of some nations

conquistador (plural: **conquistadores**) a Spanish conqueror of Latin America

conservation the care and protection of something fragile, unique, and valuable, such as rare wildlife or ancient structures

conservative tending to safeguard existing views, conditions, or traditions

constitution document containing the basic beliefs and laws of a nation, state, or social group

continent one of the largest of Earth's landmasses

contour the outline of a figure, body, or surface

contract (verb) to make smaller by tightening or squeezing together

controversial causing division or disagreement

convert to change; to win over to a new or different belief

conveyor belt a loop of material that can move objects from one worker or workstation to the next for the steps needed to make a product

convict (noun) person serving a prison sentence

core central part

corkscrew device with a handle and a spiral-twist metal piece, used for removing certain bottle stoppers

corridor passageway into which compartments or rooms open

counterclockwise in the direction opposite to the way a clock's hands move, as viewed from the front

countless too many to count

craft (noun) a skill or trade; (verb) to make skillfully, usually by hand

crater bowl-shaped dent in a surface

crest (adjective: **crested**) 1) in biology, a standing clump of fur or feathers, usually on an animal's head; 2) in geography, the upper edge or limit of something, such as the top of a mountain

critic person who studies and comments on the quality of performances or works of art

crossbreed to produce offspring from parents of two varieties or species

crossroads place where roads cross; also, a central meeting place or a decision-making point

crown prince (feminine: **crown princess**) the prince next in line for a crown or throne

crude oil oil taken from the ground and not yet cleaned or separated into different products; also called petroleum

cruise a pleasure trip on a large boat or ship

crusade campaign or cause taken up with passion and belief

crystal clear colorless glass of very good quality

cuisine style of cooking; also, foods made in that style

cultivate in gardening and farming, to plant crops and to care for them as they grow

culture the ways of life, traditions, and behaviors of a specific group of people

customhouse place where duties or taxes are paid on goods coming into or leaving a country

cutting in gardening and farming, a section of an adult plant capable of developing into a new individual

Cyrillic having to do with the alphabet for writing in Russian and other Eastern European languages

data factual information or details

dean in education, the head of a division of a school or university

debris trash or fragments

debut first formal public appearance

decade ten-year period

delta large triangular area made of material deposited at the mouth of a river, where it empties into the sea

democracy (adjective: **democratic**) government in which the highest power is held by the citizens; they either use their power directly (usually by voting) or choose others to act for them

depict to represent by a picture

deposit substance laid down by a natural process

deputy member of a lawmaking group in some nations

descendant member of a recent age group of a family or similar division that began years earlier

descended (adjective) related through a long line of ancestors

descent ancestry, heritage, or origin

devastate to wreck or destroy

device tool or piece of equipment

devise to figure out, invent, or plan

dialect one of several varieties of a language used by the members of a particular group or class of people

dialogue conversation in a play, film, or written work

diameter the length of a straight line through the center of an object

dictate to speak for another person to write down or for a machine to record

dictator person who rules with total power, often in a cruel or brutal way

diesel type of fuel-fed engine

digestive system parts of the body that work together to break down food into simpler forms that can be used by the body

dike mound of earth built to control water

diplomat person who works to keep up friendly relations between the governments of different countries

discrimination the treatment of some individuals or groups differently from others without any fair or proper reason

disk in plants, the central part of certain flower heads, as in daisies and sunflowers; the disks, in turn, are surrounded by ray flowers

dismay sadness or disappointment

dispute (verb) to argue with

diverse varied; different

divine holy, godlike, or concerning God

dome large rounded structure shaped like half of a ball

domestic (verb: **domesticate**) tame

dominant having influence or control over another person, place, or thing

drastic huge, extreme, or dramatic

drawback problem or bad side

drought long period of dry weather

dual two

duct pipe, tube, or channel through which liquid or gases flow

dung animal waste

dwindle to become smaller or less

dynasty series of rulers of the same family

echo (verb) to repeat or imitate a sound

economical cheap and efficient

economy the system in a country or group by which goods are made, services are offered, and both are sold and used

ecosystem community of all the living things in a region, their physical environment, and all their interrelationships

edict law or order given by a ruler or leader

edit to cut down to a different or shorter version

effortless easy and natural

element in science, one of the basic unique substances that make up all matter

elevation the height of an object above sea level (that is, the surface of the ocean)

embassy the living quarters or office of an ambassador (a person who officially represents his or her own government in a foreign country)

embroidery needlework done to decorate cloth

emperor (feminine: **empress**) the ruler of an empire

empire a major widespread area under a single government, or a number of territories or peoples under one supreme ruler

endangered species a group of plants or animals whose entire survival is threatened

energetic lively or active

engineer person who is trained to design and produce complex structures such as roads, bridges, and dams

enlightenment remarkably clear state of awareness, understanding, and inner peace

equator imaginary circle running east-to-west around the Earth that lies halfway between the North Pole and the South Pole

erosion (verb: **erode**) the process of wearing down; especially, the wearing away of soil or rock by wind, water, or ice

ethnic having to do with a large group of people who share a racial, national, tribal, religious, language, or cultural background

ethnography (adjective: **ethnographic**) the study of human cultures

evaporate change into a vapor or gaseous form, usually by means of heating

evergreen (adjective) having leaves that remain green and working through winter and more than one growing season

evolution (verb: **evolve**) the process of changing, especially over time

exile (noun) banishment or official separation

exotic unusual and unfamiliar

expanse large area

expedition a planned journey or trip made for a specific purpose

export to carry or send abroad, especially for sale in another country

expression communication, usually of emotions or ideas

extend to stretch out or reach across a distance, space, or time

extinct no longer existing

extremist person who holds unusually strong opinions or beliefs

famine drastic food shortage, often ending in starvation for many

fantastical highly imaginative and unrealistic

fast (noun) period of time when a person gives up or limits eating, often for religious reasons

ferocious fierce and wild

fertile rich and productive; able to yield quality crops in large quantities

fertilizer natural or artificial substance used to make soil better for growing crops

fiber strand or threadlike structure

fix in photography, to make an image lasting

flare (verb) to fan out or expand

flask container for liquid

flax the fiber from which linen cloth is made

fleece wool of an animal such as a sheep or a goat

flourish to grow successfully; to do well

fodder coarse food for farm animals

foliage the leaves of a plant

forefoot one of the front feet of an animal with four or more feet

forestry the science and work of caring for forests

formal following a specific order or pattern

fortify to strengthen with weapons and by military defenses

fortress well-defended place

fossil an imprint or other trace in rock of an animal, plant, or other living thing

foundation the support on which something rests; also, the base from which an idea or creation grows

fragrance (adjective: **fragrant**) sweet, pleasant, and often flowery or fruity smell

frankincense a sweet-smelling substance from an African or Arabian tree

fresco painting done on freshly spread moist plaster

frigid frozen or extremely cold

fungus (plural: **fungi**) organism (such as a mushroom or mold) similar to a plant but lacking a stem, roots, leaves, and the substance called “chlorophyll”

fuse an electrical safety device

fusion the blending or combination of two or more things, as if melted together

gallery room or building that is used to display special objects or works of art

gangster member of a gang of criminals

gear a toothed wheel that works as part of a machine

gemstone natural material that can be cut and polished for use in jewelry

generate to create or be the cause of

geography the natural physical features of an area; also, the study of the countries of the world and of the Earth’s surface features

geometric based on straight lines, curves, and simple shapes such as circles and squares

gesture movement of the body, arms, hands, or legs to express feelings or thoughts

gills pair of breathing organs found in fish and some other water-dwelling animals

glacier large riverlike body of ice moving slowly down a slope or spreading over a land surface

gladiator in ancient Rome, a person who fought to the death as part of a public entertainment

gland structure in animals that produces special substances, such as sweat or oil or milk

glider soaring aircraft similar to an airplane but without an engine

global warming increase in the average temperature on the planet Earth

gorge narrow steep-walled canyon

gory violent and bloody

Gospel one of the first four New Testament books of the Bible, telling of the life, death, and resurrection (raising from the dead) of Jesus Christ

gospel, or **gospel music** black American music that grew mostly from Christian church services, blues, and traditional spirituals

governess woman who teaches and trains a child in a private home

gravity force that attracts objects to each other, keeps people and objects anchored to the ground, and keeps planets circling the Sun

guerrilla person who is part of an independent fighting force that makes surprise raids behind enemy lines

gymnastics difficult physical exercises, often performed as a sport in competitions

habitat the physical environment in which a living thing dwells

hail small balls or lumps of ice that fall from the sky, as rain does

handicrafts articles, such as pottery, made by hand by an individual person

handiwork creative product

hare rabbitlike animal

harness (verb) to control, much as an animal may be hitched up and controlled by its harness

harvest the gathering of a crop

hatch to come forth from an egg or other protective covering during development

headquarters the governing and directing center of an organization

heath low evergreen shrub with needlelike leaves and clusters of small flowers

hemisphere half of the planet Earth or any other globe-shaped object

herb pleasant-smelling plant (such as mint, oregano, basil, and coriander) often used in cooking, either in part or as a whole

heritage background or descent

hermit person who has withdrawn from society to live alone

hibernate to pass the winter in a sleeping or resting state

highland high or mountainous land

horizon distant point where the land and the sky appear to meet

hot spring a source of hot water coming from underground

hull hard outer shell of a seed; also, the outer layer of a boat or ship

humanitarian devoted to the happiness and welfare of other people

humidity (adjective: **humid**) moisture or dampness; especially, the amount of moisture in the air

hurricane major tropical storm that occurs in the Atlantic Ocean and features high winds moving in circular patterns; in the Pacific Ocean such storms are called “typhoons”

husk usually thin, dry outer covering of a fruit or seed

hymn song of joy or praise, often to a god

immigrant person who goes to a country to live there

immigration the process of moving to a new country

immortal living or lasting forever

impaired damaged or limited

imperial having to do with an emperor or empire

impish playfully naughty

implant (noun) object inserted within living tissue; (verb) to insert securely or deeply

import to bring from a foreign place

impression mark or figure made by pressing one object onto the surface of another; also, the effect or feeling an object or person creates

inanimate not living

incense substance that produces a sweet smell when burned

indivisible unable to be divided

industrial having to do with businesses that construct or produce something

Industrial Revolution 18th-century era that began when power-driven machinery became common

industrialized built up and modernized through business and manufacturing

industry business and manufacturing

inhabited (adjective) occupied; having residents

inhaler device through which medicine is drawn in through the nose or mouth

inlaid decorated with materials set into the surface

inland part of a country away from the coast

inspiration something that causes a particular thought, feeling, or idea

instinct natural tendency of a living thing to respond in a particular way to a situation

integrate (adjective: **integrated**) to combine two or more parts in order to create a more-balanced whole; especially, to remove barriers that isolate one group of people from another

international having to do with two or more countries

intricate complicated or detailed

investigate to look into or study

islet small island

isolate to keep separate or alone

isthmus narrow strip of land connecting two larger land areas

ivory material that makes up elephant and walrus tusks

judo sport, developed from the Japanese fighting art of jujitsu, in which opponents use quick movements and careful positioning to try to throw each other to the ground

kernel whole grain or seed of a cereal plant

kerosene fuel for lanterns

laboratory place where science tests and experiments are done

landmass large area of land

landscape picture showing views of nature and the countryside

larva (plural: **larvae**) wingless, often wormlike stage of many insects

lash to tie or attach

layperson (adjective: **lay**) person who belongs to a religious group but is not part of its official clergy (as a priest or minister is)

legacy something handed down from an earlier time or person

legislature organized government group with the power to make laws

lens (plural: **lenses**) curved piece of glass that concentrates rays of light

liberation freedom

literacy the ability to read and write

litter group of newborn animals born to the same mother at the same time

livestock animals kept or raised, especially farm animals such as cattle, pigs, sheep, goats, and horses

locomotive railway vehicle that carries the engine that moves train cars along

loot to steal from a home or public place, especially during rioting or wartime

lumber wood used for building or carpentry

lunar having to do with the Moon

lung organ that helps some animals breathe air

lyrics the words of a song

magistrate official who looks after the laws of a particular area

magnify to make something appear larger

majestic grand or splendid

majority most; usually, more than half of a group of individual people or things

majority rule system in which the majority (that is, a number over half) of a group is given the power to make decisions that the entire group must accept

mammal class of warm-blooded animals that feed their young with milk from special mammary glands, have an internal backbone, and are more or less covered with hair

mangrove tropical tree or shrub that has partly exposed roots and grows thickly in areas of salty water

manufacture to make from raw materials, by hand or by machine

manuscript handwritten or typewritten document

marginal lying at or near the outer edge (margin) of some larger place, object, or group

marine having to do with the ocean

marmalade clear, usually sugary jelly containing pieces of fruit and fruit rind

marsh area of soft wet land usually overgrown by grasses and sedges

massive heavy or large

matter physical substance or material from which something is made

mausoleum large or fancy tomb

meal coarsely ground substance

medicinal used as a medicine

medieval period in European history from the 5th to about the 14th century AD

meditation (verb: **meditate**) quiet, focused concentration, meant to calm and clear the mind; sometimes used to reach a spiritual awareness

memorial something that keeps alive the memory of a person or event

mesa flat-topped hill or small upland with steep sides

meteorite mass of material from space that reaches the Earth's surface

method way or system

metropolitan having to do with a city and its heavily populated surrounding areas

microphone device that changes sound to electrical signals, usually in order to record or send sound

migration movement from one country or place to another

minaret in Islamic architecture, the tall slender tower of a mosque, from which Muslims are called to prayer

mineral substance that is not animal or plant and is an important nutrient for living things

mischievous playfully naughty

moccasin soft leather shoe first worn by Native American Indians

module independent unit made to be part of a larger structure

molecules the smallest possible pieces of a particular substance

mollusk any member of a group of animals that have no backbone and are usually enclosed in a shell (for example, snails, clams, or squids)

molten melted

monarchy form of government in which the ruler inherits the position and rules for life; monarchs include kings, queens, emperors, and tsars

monastery housing for people who have taken religious vows, especially for monks

monk man who lives separately from society, either alone or in a community of men, so that he can devote all his time to religious life

monsoon regular period of heavy rainfall and wind, especially in southern Asia

monument stone or building set up in memory of a person or event

mosque Muslim place of worship

mountaineer mountain climber

mourn to feel great sorrow, usually because of a death or other loss

mural a painting on a wall

mussel kind of mollusk (shellfish)

muzzle animal's snout (jaw and nose)

mystical having to do with a person's direct spiritual connection with a god or other supernatural power

myth story that unfolds part of the worldview of a people or is used to explain a belief or natural event

mythology the stories dealing with the gods and heroes of a particular people or culture

native (adjective) living or growing naturally in a particular region

natural resources the materials or qualities supplied by nature (such as minerals or water power) that make a place valuable to people, usually for industrial and manufacturing purposes

nature inborn or instinctive way of behaving or thinking

nectar sweet liquid produced by plants and used by bees in making honey

negotiate to discuss and bargain with another in order to reach an agreement

Negro spiritual religious folk song developed among blacks in the southern United States

network complex system

nobility a nation's upper-class social group

noble of upper-class birth or rank

nocturnal active at night

nomad member of a people who have no permanent home but instead move from place to place, usually with the seasons and within a specific area

nonfiction literature that is based on fact rather than imagination

nostril one of the outer openings of the nose

nuclear weapon explosive device that produces enormous power by splitting apart the centers of the tiny particles called "atoms"

nuisance annoying or troublesome person, thing, or event

nursery place where plants are grown for farming, for scientific experiments, or for sale to the public

nutrient substance that a living thing needs in order to stay healthy and grow

ocelot medium-sized wildcat of the Americas

oddity unusual thing or quality

oil (or **crude oil**) liquid taken from the ground and not yet cleaned or separated into such products as gasoline and kerosene; also called petroleum

oral having to do with the mouth

orbit (verb) to travel around an object; (noun) an object's path around another object

orchestra group of musicians playing together, usually with a leader called a "conductor"

order religious community, usually requiring that its members take solemn vows promising duty and faithfulness

organism living thing

organization group of people working together for some purpose

orthodox strictly obeying traditional rules, customs, or beliefs

overseer person in charge of others who are carrying out a task

overwhelm to defeat, beat down, or swallow up

oxygen very common gas that is one of the basic elements necessary for human and animal life

pagan (adjective) non-religious; especially, used disapprovingly to describe a form of worship very different from a familiar and socially acceptable religion

pagoda towerlike Asian temple or memorial building several stories tall, with the edges of the roof at each level curving upward

papyrus tall reed plant that grows in the Nile valley and that the ancient Egyptians used to make an early kind of paper

paralyze to make someone or something unable to move

parasite creature that lives on another, which it usually injures

parka hooded heavy jacket for very cold weather

parliament the lawmaking body of some governments

particle tiny bit or piece

pastel type of drawing crayon

patent (verb) to legally protect the rights to make, use, or sell an invention; (noun) document that legally protects the ownership and use of an invention

patron saint holy person who is chosen to specially protect a group or place

peccary American animal related to the pig

peninsula a finger of land with water on three sides

perfection state of being without flaw or error

permanent unchanging, long-lasting, or meant to last forever

persecute (noun: **persecution**) to treat cruelly or harmfully for an extended period of time; especially, to make a person or group suffer because of their beliefs

pesticide poison that kills insects dangerous to growing plants

petroleum liquid taken from the ground and not yet cleaned or separated into such products as gasoline and kerosene; also called “crude oil”

philharmonic large orchestra that plays classical music

philosopher thinker or seeker after truth and understanding of basic concepts

photoelectric effect electrical effect produced when light strikes a metal surface

physics the science that deals with matter and energy and the way they interact

piazza open place or area formed at the meeting of two or more streets, especially in an Italian town

pied (adjective) having blotches of two or more colors

pilgrim person who travels to a shrine or holy place to worship

pilgrimage journey made to a holy place to worship there

plantation large farming property, usually worked by resident laborers

plate in the Earth sciences, a large segment of the Earth’s crust (outer layer) that is constantly in motion

plateau wide land area with a fairly level surface raised sharply above the land on at least one side

plaza open place or area formed at the meeting of two or more streets

pleated folded and laid over another part of some material, especially a piece of cloth

plot the main story of a work of literature

poet laureate poet honored by a country or other region as its most outstanding poet

polar region area at or near the North Pole or South Pole

polio serious disease that may kill or permanently weaken or paralyze its victims

political having to do with creating and controlling a government

pollen (verb: **pollinate**) very fine dusty substance that comes from flowers; it is important in the reproduction of plants

pollute (noun: **pollution**) to poison or make dirty, often with man-made waste

polo team sport played by hitting a wooden ball with mallets through goalposts while on horseback

pope the leader of the Roman Catholic church

population all the people living in a country or other specific area

populous having a large population

porcelain hard white ceramic ware (earthenware) used especially for making dishes

porridge soft food made by boiling grain meal or a vegetable in milk or water until it thickens

port protected harbor where ships dock to load or unload goods

porter person who carries baggage

portray to show by making a picture or by imitating; also, to act the part of a character in a play

potential possible

poultry birds raised for their eggs or meat

poverty the condition of being poor

preach to deliver a sermon; to urge to accept an idea or course of action

precious of great value or high price

predator (adjective: **predatory**) animal that lives by eating other animals

predict to foretell an event on the basis of study, experience, or reasoning

prehistoric having to do with times before written history

presence the strong and self-confident quality a person has that makes others focus on him or her

prey an animal eaten by another animal

prime minister the chief officer of the government in some countries

primitive ancient, or belonging to a very early stage of development

print (noun) work of art made by a process that allows more than one copy of an image to be made

prism piece of many-sided clear crystal

procession group of people moving along in an orderly, often ceremonial way

Promised Land in Judaism, the land of Canaan, which God promised to Abraham and Moses if the Hebrew people promised to worship only him

propeller a device that uses blades that fan outward from a central hub to propel (move) a vehicle, such as a boat or an airplane

prophet a holy person who acts as a messenger between God and people; also, a gifted person with the ability to accurately predict future events

prosperous wealthy

prowl to creep about in a sneaky way, often while hunting

psalm a sacred song or poem used in worship; especially, one of the biblical poems collected in the Book of Psalms

pulp 1) in plants, the juicy fleshy part of a soft fruit; 2) in industry, a mashed-up pasty glop such as the plant material used in making paper

pygmy something very small for its kind

pyramid structure with a square base and four sloping triangle sides that meet in a point at the top

quay structure built along the bank of a waterway for use as a landing place

rabies serious disease of animals that is usually passed on through the bite of a sick (rabid) animal; its effects include extreme salivation, strange behavior, and usually death

radiation energy sent out in the form of rays, waves, or particles

rainforest dense tropical woodland with a high yearly rainfall and very tall trees

ray beam

rebel person who fights against an existing power or way of doing things

recitation act of speaking or reading a piece of literature aloud

reclaim to change to a wanted condition

recycle to reuse, or to pass used or scrap material through various changes in order to create new useful products from it

reef raised length of rocks, coral, or sand at or near the surface of water

refined polished, complex, and advanced

refinery factory that treats crude petroleum and separates it into different parts

region (adjective: **regional**) general area; also, a specific district

reign the time during which a ruler is in power

remains (noun) parts that are left after time passes or some event occurs

repel to force away or resist

reptile major animal group that includes snakes, lizards, and other animals that usually have scales or bony plates

republic form of government in which citizens who are allowed to vote elect officials and representatives responsible for governing by law

research careful search and study

reserve area of land set apart for some special purpose; also (usually plural, reserves), money or valuable items kept in hand or set apart until needed

resort (noun) fancy vacation spot

resurrection raising from the dead

revere to honor

revolt (verb) to rise up (often violently) against the power of a ruler or government

revolution (adjective: **revolutionary**) activity or movement designed to make changes in a situation

rhythm (adjective: **rhythmic**) regular pattern of sound

rind the usually hard or tough outer layer or “skin” of a fruit or vegetable

ritual formal custom or ceremony, often religious

roam to travel or wander freely through a wide area

rodent major animal group that includes mice, squirrels, and other small gnawing animals

rotate (noun: **rotation**) to spin or turn

rubble confused mass of rough or broken things

rudder flat piece attached to the back of a boat or ship and used for steering

ruthless without pity

sabotage damage or destruction of property that interferes with an enemy's use of it

sacred holy

sacrifice (noun) valuable offering made to a god; especially, a human or animal victim killed on an altar

saga tale of historic or legendary figures and events of Norway and Iceland

salvation rescue from the power and effects of sin

samurai warrior class in Japan from about the 12th to the mid-19th century

sanctuary safe place

sap the liquid inside a plant

satellite natural or man-made object that circles another object, usually a planet

savage extremely violent

savanna hot, dry grassland with scattered trees

saw-toothed having an edge or outline like the teeth (cutting points) of a saw

scale in biology, one of the small, stiff, flat plates that form an outer covering on the body of some animals, especially fishes and reptiles

Scandinavia area in northern Europe that includes the countries of Denmark, Norway, and Sweden

scenic having to do with a pleasing view or natural landscape

scholar person who has done advanced study in a special area

scholarship award of money to help pay for a person's education

science fiction stories that deal with the effects of real or imagined science on society or individuals

score in films, the background music that goes with the pictures on the screen

scorpion animal of the arachnid class (which includes spiders) that has a long body and a narrow sectioned tail with a poisonous stinger at the tip

scour scrub hard

sculpture three-dimensional artwork, usually shaped by carving, molding, or welding

sea level the height of the surface of the sea midway between the average high and low tides

seaport port, harbor, or town reachable by seagoing ships

seclusion isolation or separation from others

secretariat department that handles an international or government organization

sedge plant group found in marshes and related to grasses and rushes

self-portrait picture of a person, usually showing the face, that is painted or drawn by the artist himself or herself

semidesert area that is much like a desert but has more rainfall

senate official lawmaking group of some nations

sensitive easily affected

sepulchre place of burial

seraphim in Christianity, Islam, and Judaism, special angels who guard God's throne

shears cutting device similar to scissors but usually larger

shortage situation of need, or amount that is missing or isn't enough

shrine place where honor or worship is offered to a saint or deity

skyline outline of buildings or other large objects against the background of the sky

sleet frozen or partly frozen rain

slum crowded, dirty, run-down housing

smog dirty air, a word made by combining "smoke" and "fog" to describe how the air looks

snout long projecting nose, like that of a pig; also, the long front part of the head of some animals, such as alligators

solar having to do with the Sun

solitary alone

sonar method of locating objects (usually underwater) by sending out sound waves to be reflected back from the objects

sophisticated complicated or stylish

soprano the highest woman's singing voice; also, a person who sings in this voice

Soviet Union country of eastern Europe and northern Asia that existed from 1922 to 1991 and consisted of Russia and 14 other republics

space shuttle rocket-launched airplane-like vehicle that transports people to and from space

species group of living things that have certain characteristics in common and share a name

sphere ball or globe

splendor something very grand or beautiful

spool reel for winding lengths of materials such as tape, thread, or wire

spout tube, pipe, or hole through which liquid flows

square open place or area formed at the meeting of two or more streets

squid sea mollusk that has a long thin body with eight short arms and two usually longer tentacles

staff wooden walking stick

stalk plant's main stem

standard commonly accepted amount or number

starchy containing starch, a natural substance that is made by green plants and is part of many foods

stationary unmoving

steppe land that is dry, usually rather level, and covered with grass

Stone Age the oldest period in which human beings are known to have existed, characterized by the making of stone tools

storage space to keep or hold on to things

strait narrow channel connecting two large bodies of water

strike temporary stopping of normal activities in protest against an act or condition

sturdy physically strong and healthy

stylized simplified or made to suggest natural forms but not imitate them

submerge to put under water

suction holding onto something by sucking

sultan king or ruler, especially of a Muslim state

summit top or highest point

superior better than

superstition unproven belief usually based on a mistaken idea of how something is caused

supreme highest, best, and without limit

supreme court the highest court in a country or other specific official area

surgery a medical procedure or operation for treating a disease or condition

symbolize to stand for something else; especially, to stand for or suggest something that cannot itself be pictured or shown

synagogue Jewish house of worship

synthetic produced artificially

tableland broad flat area of high land

tallow the solid fat of cattle and sheep, used chiefly in making soap, margarine, and candles

tamarind tropical tree whose sharp-tasting fruit is used as a flavoring

tannery place where animal hides are turned into leather, especially by soaking in a tannin solution

tap (verb) to make a hole in something in order to remove the liquid inside

tapered little by little becoming smaller toward one end

tapestry heavy cloth that has designs or pictures woven into it and is often used as a wall hanging

tapir hoofed, long-snouted mammal of Malaysia and the Americas that is related to horses and rhinoceroses

technical having to do with the way a skilled individual handles the details of an art or craft

technique special way of doing something; especially, the way a skilled individual handles the details of an art or craft

technology scientific ideas and knowledge put to actual use

teeming crowded

telegraph device for sending coded messages over long distances by using electrical signals

temperament personality or usual mood

temperate having mild weather

temple building used for worship

tentacle long armlike structure on certain animals, usually found sticking out near the head or mouth and used especially for feeling or grasping

terrace area of hillside that has been leveled off to allow farming on the land

territorial protective of a territory or home area

terrorist person who uses violence to try to reach political goals

text written work

textile cloth

texture the feel of a surface

thatch to cover the roof of a building with plant material such as straw

theme the main idea or subject of a work of art; especially, in music, the main melody that a piece of music builds on

theory in science, an idea or reasoned explanation for why things are as they are or why things happen as they do

thermal springs a source of hot water coming from underground

thorax the middle of the three main divisions of the body of an insect

three-dimensional having depth (or thickness) in addition to width and height

timber wood used for building or carpentry

tolerate to put up with; also, to be able to survive

tollhouse building or booth where a fee is collected for some permission (such as using a highway)

tomb special building or room in which a dead person is buried

topknot short mound of hair worn on the top of the head

tourism business of encouraging travel to a specific location and of managing services for visitors (including lodging, transport, food, and activities)

tourist person who travels for pleasure

tractor heavy vehicle used to pull farm equipment

tradition custom; habit of belief or of living

traditional usual; well known because of custom or longtime use

train (verb) in gardening and farming, to direct the growth of a plant, usually by bending, trimming, and tying off

translation version of a written work that has been changed from its original language into another

transmitter device that sends messages or code

tribute gift, performance, or action meant to show appreciation, respect, or caring for someone or something

tropical having to do with the Earth's warmest and most humid (moist) climates

troupe company or group; especially, a working group of stage performers

truce temporary stop in fighting during a war or other violent conflict

tsar one of the emperors of Russia until 1917

tsunami huge ocean wave produced by an undersea earthquake or volcanic eruption

tuft 1) in plants, a small cluster of flexible leaves or fibers that are attached or close together at the base and free at the opposite end; 2) in animals, a short mound of fur

tundra treeless plain with spotty grasses mostly in extremely cold regions

turban head covering made of a long cloth wrapped around the head or around a close-fitting cap

turpentine oil used to dissolve or thin out paint and other substances

tusk long tooth that overhangs when the mouth is closed and serves for digging food or as a weapon

tutor private teacher

twilight the light between the end of day and the beginning of night; also, the name for that time of day

typhoon major tropical storm that occurs in the Pacific Ocean and features high winds moving in circular patterns; in the Atlantic Ocean such storms are called "hurricanes"

tyrant powerful and cruel ruler; also, someone who acts like a tyrant

unique very unusual or one-of-a-kind

unity oneness or harmony

universal present or occurring everywhere

values morals or ideals

vapor substance in the state of a gas (rather than a solid or liquid)

vast huge or spacious

vaudeville popular American form of entertainment from the 1890s to the 1930s, involving musical, dancing, comedy, magic, and other variety acts

vegetarian person or animal that does not eat meat

vehicle device or machine used to carry something

venom poison that comes from animals

veterinarian doctor who takes care of animals

vibrate to move rapidly back and forth or from side to side

vivid bright or dramatic

vow solemn promise or statement

vulnerable exposed or in danger

wages payment for work or services

warm-blooded having a body temperature that stays mostly unchanged and is not affected by the surrounding environment

waste materials that are unused or left over after some work or action is finished

water power energy produced by moving water that can be used to do physical work; it may come directly from water's own force or from machines run by water that in turn produce even greater power (such as electricity)

waterlogged filled or soaked with water and therefore heavy or hard to manage

waterproof not affected by water

weaned capable of and used to eating food rather than nursing

weld to join metal parts together with heat

wildlife manager scientist who watches over the conditions, habitats, and populations of wild animals and plants

wildlife sanctuary place of protection for animals and plants

worship (verb) to honor and show surrender and obedience to a god or supernatural power

yacht small ship or large boat used for pleasure cruising or racing

What is an index?

An index is a guide to the many subjects in a book or a set of books. It tells you where to find each discussion of every subject.

Why do we use an index?

There is usually a table of contents at the beginning of a book. It tells you the major parts of the book, in order, and the page numbers where each section starts. But it doesn't tell you all the subjects that the book discusses or where to find them. For that, you need to use the index.

How do we use an index?

An index lists all the subjects of a book from A to Z. This makes it easy for you to find what you're looking for, as in the example below:

Ando Hiroshige (Japanese artist) <i>look under</i> Hiroshige	architecture
ants	Argentina (country)
apes	Armstrong, Louis (American musician)
Arafat, Yasir (Palestinian leader)	Ashoka (emperor of India)
	Asia (continent)
	astronauts, also called cosmonauts (space explorers)

Notice that the subjects are in **bold-faced type** and in alphabetical order. Notice, also, several other clues that will help you use the index.

First, many subjects are followed by a word or phrase in parentheses that describes the subject.

Second, people with last names have their last names listed first. **Armstrong, Louis** is one example. **Ashoka** is an example of a person without a last name. He is therefore listed under this single name.

Third, some subjects, such as **Ando Hiroshige**, are known by more than one name. In such cases, the index may tell you to look under a different name. All the names of a subject are also included with the

name the index tells you to look under. They follow the words *also called*. For example, you'll find the subject **cosmonauts** in **bold-faced type** with an instruction to *look under* astronauts:

cosmonauts (space explorers): *look under* astronauts

Then at **astronauts** you'll find:

astronauts, also called cosmonauts (space explorers)

Some subjects are discussed only in articles on other topics. To find them, the index tells you to *look under* related subjects. For example:

moons (satellites of planets): *look under* Moon; *for other moons look under the planets* Jupiter; Mars; Neptune; Pluto; Saturn; Uranus

MY FIRST BRITANNICA Index

So the first things you need to do to find a subject in the index are:

1 Choose a word or phrase that best describes the subject you're interested in. Subjects can be things such as **music** or **telescopes**, places such as **Rome** or **Tokyo**, or people such as **Judi Dench** or **Albert Einstein**. (Remember to look under the last name for most people.)

2 If you can't find the subject you're looking for in the alphabetical list, try to think of different words for your subject and look again. For example, you may want to know about maps. You'll find the information under **atlas**.

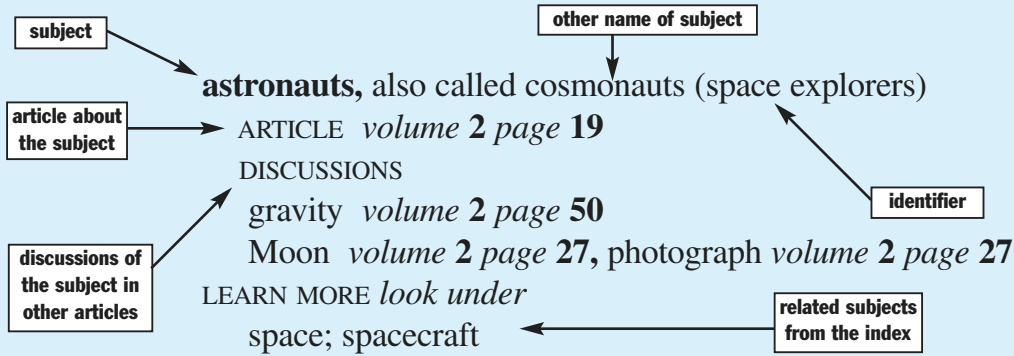
3 Once you locate your subject in the index, you'll see that the index works like a map. At each **subject**, you'll find explanations of how to get to all the places that **discuss** or illustrate your subject.

How to



Mountain gorilla.

How to navigate



Space shuttle *Endeavor*.

© NASA

There are important things to notice in this example. If there is an entire article written about your subject, you'll see the word **ARTICLE** followed by the *volume* and *page* numbers where it can be found:

ARTICLE *volume 2 page 19*

If your subject is also discussed or illustrated in articles other than the main article, or if it appears on a map in the mini-atlas in Volume 13, you'll see the word **DISCUSSIONS**. Below this is a word or phrase describing each of the other articles or indicating the mini-atlas, also followed by the *volume* and *page* numbers where each can be found. If there are also photographs or illustrations related to your subject, they too will be listed along with their *volume* and *page* numbers:

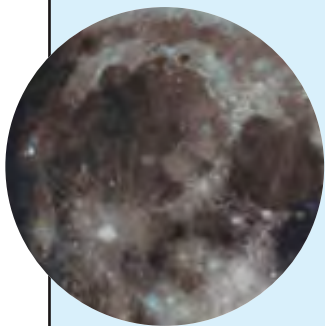
DISCUSSIONS

gravity *volume 2 page 50*
Moon *volume 2 page 27*, photograph *volume 2 page 27*

Sometimes you'll see the phrase **Did you know?** followed by a *volume* and a *page* number. This means that you'll find information about your subject in the **DID YOU KNOW?** box on that page.

The index sometimes helps you learn more about your subject by giving you a list of related subjects. You'll find these after the words **LEARN MORE** *look under*

LEARN MORE *look under* space; spacecraft



Earth's Moon.

© Jet Propulsion Laboratory/NASA

Now you're ready to explore MY FIRST BRITANNICA, using one of the best guides there is—the index!

use the index

I N D E X



Abbey Theatre (theatre in Dublin, Ireland)

DISCUSSIONS

Dublin *volume 6 page 26*

LEARN MORE *look under* theater

Abd ol-Baha, *also called* Abdul Baha (Baha'i leader)

DISCUSSIONS

Baha'i *volume 5 page 70*, photograph *volume 5 page 70*

Abominable Snowman, *also called* Yeti (legend)

DISCUSSIONS

Nepal *volume 7 page 55*

LEARN MORE *look under* legends

Abraham (biblical person)

ARTICLE *volume 5 page 52*

LEARN MORE *look under* Bible

people: Jesus Christ; Moses; Muhammad

religions: Christianity; Islam; Judaism

abstract art

DISCUSSIONS

sculpture *volume 3 page 11*

Abu Simbel (ancient temple)

DISCUSSIONS

Did you know? *volume 8 page 55*

Abuja (city in Nigeria)

DISCUSSIONS

Nigeria *volume 8 page 21*

Accra (city in Ghana)

ARTICLE *volume 8 page 12*

DISCUSSIONS

atlas *volume 13 page 6*

Ghana *volume 8 page 11*

LEARN MORE *look under* West Africa

acid rain (pollution)

ARTICLE *volume 1 page 70*

DISCUSSIONS

Did you know? *volume 6 page 53*

LEARN MORE *look under* pollution

Aconcagua, Mount (mountain in Argentina)

DISCUSSIONS

atlas photograph *volume 13 page 10*

Andes *volume 9 page 66*

LEARN MORE *look under* mountains

Acropolis (ancient citadel in Athens, Greece)

DISCUSSIONS

Athens *volume 6 page 85*

Parthenon *volume 6 page 87*

LEARN MORE *look under* architecture

Acts of the Apostles (sacred text)

DISCUSSIONS

Bible *volume 5 page 63*

Addis Ababa (city in Ethiopia)

ARTICLE *volume 8 page 29*

DISCUSSIONS

atlas *volume 13 page 6*

LEARN MORE *look under* Eastern Africa; Ethiopia

“Adi Granth,” *also called* “Granth Sahib” (holy book)

DISCUSSIONS

Sikhism *volume 5 page 88*

LEARN MORE *look under*

other holy books: Avesta; Bible;

“Daodejing”; Koran

Adrian I (pope)

DISCUSSIONS

Charlemagne illustration *volume 4 page 41*

Aegolius acadicus (birds): *look under* saw-whet owls

aeroplanes: *look under* airplanes

Aesop’s fables

ARTICLE *volume 5 page 24*

LEARN MORE *look under*

other Greek stories: Atlas; “Odysseus and the Cyclops”; Trojan Horse, The

other stories about animals: folktales; legends

Afghanistan (country)

ARTICLE *volume 7 page 45*

DISCUSSIONS

atlas *volume 13 page 12*

flag *volume 7 page 45*

LEARN MORE *look under*

places: Iran; South Asia

religion: Islam

Africa (continent)

ARTICLE *volume 8 page 7*

DISCUSSIONS

atlas *volume 13 page 6*

continents *volume 1 page 8*, map

volume 1 page 8

diamonds *volume 1 page 80*

Did you know? *volume 4 page 72*

LEARN MORE *look under*

countries: Algeria; Angola;

Botswana; Egypt; Ethiopia; Ghana;

Guinea; Kenya; Liberia; Libya;

Madagascar; Malawi; Morocco;

Namibia; Nigeria; Senegal;

Seychelles; Somalia; South Africa;

Sudan, The; Uganda; Zimbabwe

other places: Congo; Nile River; Suez

Canal; Victoria Falls

animals: alligators and crocodiles;

apes; bats; buffalo; chameleons;

donkeys; elephants; gazelles;

gorillas; hippopotamuses; lions;

mammoths and mastodons;

mongooses; monkeys; ostriches;

porcupines; sheep; wild goats

people: Mandela, Nelson; Soyinka,

Wole

plants: bananas; coffee

stories: “Ananse and the Wisdom

Pot”; “Monkey Court, The”

African Americans (people)

DISCUSSIONS

Did you know? *volume 5 page 40*

jazz *volume 3 page 35*

LEARN MORE *look under*

people: Ailey, Alvin; Armstrong,

Louis; Basie, Count; Brooks,

Gwendolyn; King, Martin Luther, Jr.

African elephants

DISCUSSIONS

elephants *volume 12 page 91*,

photograph *volume 12 page 91*

African manatees (mammals)

DISCUSSIONS

manatees *volume 12 page 73*

African National Congress, *also called ANC* (South African political party)

DISCUSSIONS

Nelson Mandela *volume 4 page 53*

agriculture: *look under farming*

ahimsa (religion)

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Hinduism *volume 5 page 79*

Jainism *volume 5 page 87*

LEARN MORE *look under nonviolence*

Ahriman (evil spirit)

DISCUSSIONS

Zoroastrianism *volume 5 page 49*

Ahura Mazda, *also called Ormazd* (god)

DISCUSSIONS

Zoroastrianism *volume 5 page 49*

LEARN MORE *look under God*

“Aida” (opera by Verdi)

DISCUSSIONS

opera photograph *volume 3 page 76*

Aigams (city in Namibia): *look under Windhoek*

Ailey, Alvin (American dance artist)

ARTICLE *volume 3 page 78*

LEARN MORE *look under*

other dancers: Elssler, Fanny;

Tallchief, Maria

other famous African Americans:

Armstrong, Louis; Basie, Count;

Brooks, Gwendolyn

air

DISCUSSIONS

dew *volume 1 page 65*

LEARN MORE *look under clouds*;

cyclones; echoes; northern lights;

rainbows; thunder and lightning; wind

power

aircraft: *look under airplanes*;
ballooning; helicopters; space shuttles

airplanes, *also called aeroplanes*

ARTICLE *volume 2 page 71*

DISCUSSIONS

seaplane over the ocean photograph

volume 7 page 93

LEARN MORE *look under transportation*

Aklavik (town in Canada)

ARTICLE *volume 9 page 13*

LEARN MORE *look under Canada*

Alaska (state in the U.S.)

DISCUSSIONS

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Did you know? *volume 2 page 84*

glaciers photograph *volume 1 page 55*

peninsulas *volume 1 page 22*

pinus photograph *volume 10 page 88*

sheep photograph *volume 12 page 57*

United States of America *volume 9*

page 27

LEARN MORE *look under United States of America*

albatrosses (birds)

ARTICLE *volume 11 page 17*

LEARN MORE *look under birds*; marine animals

Aldrin, Edwin E., *also called Buzz*

Aldrin (American astronaut)

DISCUSSIONS

walking on the Moon photograph

volume 2 page 27

Aleutian Islands (U.S.)

DISCUSSIONS

islands *volume 1 page 12*

Algeria (country)

ARTICLE *volume 8 page 44*

DISCUSSIONS

atlas *volume 13 page 6*

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places: Algiers; North Africa

Algiers (city in Algeria)

ARTICLE *volume 8 page 47*

DISCUSSIONS

atlas *volume 13 page 6*

LEARN MORE *look under Algeria*

Algiers, Bay of (bay in Algeria)

DISCUSSIONS

Algiers photograph *volume 8 page 46*

“Alice’s Adventures in Wonderland”

(book by Carroll)

DISCUSSIONS

Lewis Carroll *volume 3 page 59*,

photograph *volume 3 page 58*

All Souls’ Day, *also called Dia de los Muertos* (holiday)

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Mexico *volume 9 page 41*

Allah (name for God)

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Islam *volume 5 page 64*

Koran *volume 5 page 69*

Muhammad *volume 5 page 67*

LEARN MORE *look under God*

Allende, Isabel (Chilean writer)

ARTICLE *volume 4 page 7*

LEARN MORE *look under Chile*; Latin America; literature

alligators and crocodiles

ARTICLE *volume 11 page 77*

LEARN MORE *look under aquatic*

animals; hippopotamuses; reptiles;

rivers

alpacas (mammals)

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Did you know? *volume 9 page 75*

LEARN MORE *look under ungulates*

Alpha Proxima Centauri (star)

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Did you know? *volume 2 page 10*

Alps (mountains in Europe)

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Austria *volume 6 page 48*

Italy *volume 6 page 89*

Switzerland *volume 6 page 46*,

photograph *volume 6 page 47*

LEARN MORE *look under Blanc, Mont*;

Central Europe; mountains

Alvin Ailey American Dance Theater

DISCUSSIONS

Alvin Ailey *volume 3 page 78*

Amaterasu (Shinto goddess)

DISCUSSIONS

Did you know? *volume 5 page 77*

LEARN MORE *look under God*

Amazon (river and region in South America)

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DISCUSSIONS

atlas photograph *volume 13 page 10*

anacondas *volume 11 page 81*

Did you know? *volume 10 page 15*

marshes *volume 1 page 26*

Peru *volume 9 page 75*

piranhas *volume 11 page 41*

rivers *volume 1 page 31, volume 9*

page 64

South America *volume 9 page 61*

swamps *volume 1 page 28*

LEARN MORE *look under rainforests*;

rivers

animals: anacondas; ants; butterflies

and moths; crocodiles; manatees;

monkeys; parrots and cockatoos;

piranhas; spiders

Amazon parrot

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Amazon photograph *volume 9*

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Amazonian manatees (mammals)

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American buffalo (animals): *look under* bison

American Falls (waterfall in New York state, U.S.)

DISCUSSIONS

Niagara Falls *volume 9 page 21*

American Foundation for the Blind

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American Indians, *also called* First Nations, *or* Native Americans

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painting *volume 3 page 8*, photograph
volume 3 page 8

sunflowers *volume 10 page 7*

United States of America *volume 9*
page 28

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peoples: Arawak; Aztec Civilization;
Chibcha; Guaraní; Inca civilization;
Mayan Civilization; Olmec
individual people: Tallchief, Maria
stories: “How Crow Brought
Daylight to the World”; “Rabbit
Throws Away His Sandal”; “Why
Possum’s Tail Is Bare”

**American Museum of Natural
History** (museum in New York City,
U.S.)

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New York City *volume 9 page 38*,
photograph *volume 9 page 38*

American Revolutionary War

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United States of America *volume 9*
page 27

Americas (supercontinent)

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Spain *volume 6 page 11*

LEARN MORE *look under*

people: American Indians

places: Central America; North
America; South America

Amin, Idi (Ugandan leader)

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Amman (city in Jordan)

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amphibians (animals)

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Amsterdam (city in the Netherlands)

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people: Frank, Anne

anacondas (snakes)

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Ananse, *also called* Anansi (folktale
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“Ananse and the Wisdom Pot”

(folktale from Ghana)

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LEARN MORE *look under*

other African stories: “Monkey Court,
The”

other folktales: “How Kangaroo Got
His Tail”; “Poor Man and the Flask
of Oil, The”; “Rabbit Throws Away
His Sandal”; “Tiger in the Trap,
The”; “Why Possum’s Tail Is Bare”;
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Anansi (folktale character): *look under*
Ananse

anosaurs (dinosaurs)

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ANC (South African political party):

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Ancient Rome: *look under* Roman
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Andean condors (birds)

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Andes (mountains in South America)

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animals: armadillos; llamas

Ando Hiroshige (Japanese artist): *look*
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Angel Falls (waterfall in Venezuela)

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Angelico, Fra (Italian painter)

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Angkor Wat (temple in Cambodia)

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LEARN MORE *look under* Phnom Penh;
Southeast Asia; temples

anglerfish (fish)

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deep-sea life photograph *volume 11*
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LEARN MORE *look under* marine
animals

Angola (country)

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LEARN MORE *look under* Luanda;
Southern Africa

animals

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LEARN MORE *look under* amphibians;
birds; coral; deep-sea life; endangered
animals; fish; fossils; insects;
jellyfish; mammals; mollusks;

reptiles; spiders; sponges

activities: bullfighting; farming;

fishing

stories: fables; folktales; legends;

myths

Annan, Kofi (Ghanaian and United
Nations leader)

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Jane Goodall photograph *volume 4* page 78
- “**Annie Allen**” (book by Brooks)
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Gwendolyn Brooks *volume 3* page 56
- anoa** (animals)
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- anoles**, *also called* false chameleons (lizards)
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- antelope** (animals): *look under* gazelles
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Cleopatra *volume 4* page 43
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- Anubis** (Egyptian god)
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- apartheid** (racial segregation in South Africa)
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South Africa *volume 8* page 85, photograph *volume 8* page 85
- apatosaurus**, *also called* brontosaurus (dinosaurs)
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- apes**
ARTICLE *volume 12* page 9
LEARN MORE *look under*
kinds of apes: chimpanzees; gibbons; gorillas
similar animals: lemurs; monkeys
- aphids** (animals)
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- Appalachian Mountains**
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atlas *volume 13* page 8
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LEARN MORE *look under* mountains
- apples** (fruit)
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- aquatic animals**: *look under* alligators and crocodiles; dolphins; ducks; fish; geese; hippopotamuses; marine animals; muskrats; platypuses; swans
- Arabia** (peninsula and region in Asia)
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people: Arabs
places: Baghdad; Mecca; Middle East; Oman
religion: Islam
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- Arabian camels** (animals): *look under* dromedaries
- “**Arabian Nights**” (collection of stories)
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- Arabs** (people)
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Abraham *volume 5* page 53
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- arachnids** (animals)
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- LEARN MORE *look under* insects
- Arafat, Yasir** (Palestinian leader)
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LEARN MORE *look under* Middle East *other Middle Eastern leaders*: Begin, Menachem; Meir, Golda; Sadat, Anwar el-
- Ararat, Mount** (mountain in Turkey)
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ARTICLE *volume 3* page 13
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people: Costa, Lucio; Fathy, Hassan; Michelangelo; Pei, I. M.
buildings and constructions: Acropolis; Angkor Wat; Brandenburg Gate; bridges; castles; Colosseum; dams; Dionysus, Theater of; Dome of the Rock; dzong; Empire State Building; Eurotunnel; Fushimi Inari shrine; Gateway Arch; Great Wall; Jefferson Memorial; Machu Picchu; mosques; palaces; Panama Canal; Parliament House; pyramids; Sadat Resthouse; Sarnath; Stonehenge; Suez Canal; Taj Mahal; temples; totem pole; towers; Western Wall
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people: Borges, Jorge Luis
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- Arizona** (state in the U.S.)
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- armadillos** (animals)
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LEARN MORE *look under* mammals

Armenia

Armenia (country)

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Armstrong, Louis, *also called* Satchmo (American musician)

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LEARN MORE *look under* jazz

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Armstrong, Neil (American astronaut)

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army ants (animals)

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“Around the World in 80 Days”

(book by Verne)

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arthropods (animals)

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Arthur (legendary king)

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Knights of the Round Table *volume 5 page 33*

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arts

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LEARN MORE *look under*

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Ashoka (emperor of India)

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India

other rulers: Caesar, Julius; Charlemagne; Cleopatra; Elizabeth I; Empress of China; Hirohito

Asia (continent)

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classical music *volume 3 page 36*

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other places: Australia; Fertile Crescent; Korean Peninsula; Middle East

religion: Buddhism; Confucius; Daoism; Hinduism; Islam; Jainism; shamanism; Shinto; Sikhism

animals: apes; bats; buffalo; chameleons; donkeys; elephants; gibbons; horses; king cobras; macaques; mammoths and mastodons; mongooses; monkeys; muskrats; pandas; peacocks; porcupines; sheep; tigers; walruses; wild goats; wolves; yaks

plants: rubber trees

stories: Moni Mekhala and Ream Eysa; “Poor Man and the Flask of Oil, The”; “Tiger in the Trap, The”; “Yeh-Shen”

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asteroids, *also called* minor planets

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astronauts, *also called* cosmonauts (space explorers)

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astronomy (science)

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Mayan civilization *volume 4 page 103*

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people: Copernicus, Nicolaus; Galileo Galilei; Kepler, Johannes
things: asteroids; comets; galaxies; planets; solar system; stars; telescopes; universe

Asunción (city in Paraguay)

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Atacama Desert (region in Chile)

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Canberra (city in Australia)

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sandstone canyon photograph

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Capitol, United States (building in Washington, D.C., U.S.)

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Cardiff, also called Caerdydd (city in Wales, U.K.)

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Cardiff Castle (castle in Cardiff, Wales, U.K.)

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Caribbean manatees (mammals)

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Caribbean Sea (Atlantic Ocean)

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Carnegie Hall (concert hall in New York City, U.S.)

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New York City *volume 9 page 38*

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coyotes; dogs; lions; mongooses;

ocelots; pandas; raccoons; tigers;

walrus; wolves

carnivorous plants, also called insect-eating plants

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carp (fish)

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Carroll, Lewis, also called Charles Dodgson (British writer)

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Carter, Jimmy (American leader)

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Anwar el-Sadat photograph *volume 4 page 58*

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Carver, George Washington

(American researcher)

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Casablanca (city in Morocco)

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Castro, Fidel (Cuban leader)

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other communist leaders: Mao Zedong

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cats

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Cayley

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Cayley, Sir George (British scientist)

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CCP (Chinese political party): *look under* Chinese Communist Party

cedars (trees)

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other places: Mexico City; Panama Canal; Panama City; Puerto Rico; West Indies

animals: anoles; armadillos; bats; manatees; monkeys; ocelots; opossums; porcupines; tapirs
stories: “Rabbit Throws Away His Sandal”

things: Mayan Civilization

Central Asia

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places: Afghanistan; Karakoram Range; Tibet

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Central Europe: *look under*

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Central Park (park in New York City, U.S.)

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Ceres (dwarf planet): *look under* dwarf planet

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Chaillot Palace (palace in Paris, France)

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chalk (rock)

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character ballet: *look under* theatrical dance

Charlemagne (Holy Roman emperor)

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other rulers: Ashoka; Caesar, Julius; Cleopatra; Elizabeth I; Empress of China; Hirohito

Charles Bridge (bridge in Prague, Czech Republic)

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Charon (moon of Pluto)

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Cherokee (people)

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chess (game)

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“**Chess Players, The**,” *also called* “Shatranj ke Khilari” (film by Ray)

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Chicago (city in Illinois, U.S.)

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religions: Buddhism; Confucianism; Daoism
animals and plants: pandas; tea
stories: “Yeh-Shen”

China oranges, *also called* common oranges, *or* sweet oranges (fruit)

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Chinese Communist Party, *also called* CCP

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Mao Zedong *volume 4 page 54*

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Chiron (comet)

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chlorophyll

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branches: Roman Catholicism

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Christie, Agatha (British writer)

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“Christmas Carol, A” (book by Dickens)

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Christo (Bulgarian artist)

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churches: *look under* Holy Sepulchre, Church of the; Notre-Dame de Paris, Cathedral of; Saint Basil’s Cathedral; Saint Peter’s Basilica; Saint Stephen’s Cathedral; Westminster Abbey

other places of worship: gurdwaras; mosques; synagogues; temples

Cinderella (folktale person)

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cinema (motion picture business)

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people: Dench, Judi; Kurosawa, Akira; Ray, Satyajit

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Martin Luther King *volume 4 page 98*

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Cixi (empress of China): *look under* Empress of China

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Cleopatra (queen of Egypt)

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click languages

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“Clothespin”

“Clothespin” (sculpture by Oldenburg)

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cloud nine (saying)

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thunder and lightning; water

club wheat (grain)

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CN Tower (structure in Toronto,
Canada)

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Co Loa citadel (monument in Hanoi,
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trees (trees)

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Colosseum (arena in Rome, Italy)

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Columbus, Christopher (Italian
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Confucius, *also called* Kongzi (founder of Confucianism)

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other religious teachers: Buddha;
Jesus Christ; Moses; Muhammad;
Zoroaster

other religions: Daoism

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Congressional Palace (building in Brasília, Brazil)

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Conservative Judaism

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Constantinople (historic city in Turkey): *look under* Istanbul

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Australia; Europe; North America;
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things: caves; deserts; marshes;
mountains; oasis; peninsulas;
rainforests; rivers; swamps

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Copenhagen (city in Denmark)

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Copernicus, Nicolaus (Polish astronomer)

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Kepler, Johannes; Piazzi, Giuseppe

Coppola, Francis Ford (American film director)

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coral (ocean animals)

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Costa, Lucio (Brazilian architect)

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Cotswold (district in England, U.K.)

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cross-pollination

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Curie, Pierre (French scientist)

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Cyclopes (legendary giants)

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Dalai Lama (Tibetan leader)

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“Daodejing” (Daoism)

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Daoism, also called Taoism (religion and philosophy)

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Dome of the Rock (shrine in Jerusalem, Israel)

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Donatello (Italian sculptor)

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donkeys, also called burros (animals)

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Dover (city in England, U.K.)

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East Indies (islands in Southeast Asia)

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Eastern Europe

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Eastern Orthodoxy (religion)

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Edinburgh, *also called* Dun Eideann (city in Scotland, U.K.)

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Edinburgh Castle (castle in Edinburgh, Scotland, U.K.)

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Edison, Thomas (American inventor)

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Eiffel Tower (tower in Paris, France)

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Einstein, Albert (German-American scientist)

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electromagnet

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Elizabeth I, also called Good Queen Bess (queen of England)

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Elsler, Fanny (Austrian ballerina)

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emerald tree boa (snake)

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emeralds (gemstones)

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Empire State Building (building in New York City, U.S.)

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New York City *volume 9 page 37*

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Empress of China, also called Cixi, or Empress Dowager, or The Dragon

Empress

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other rulers: Ashoka; Caesar, Julius; Charlemagne; Cleopatra; Elizabeth I; Hirohito

“Encyclopædia Britannica”

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energy

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people: Curie, Marie; Einstein, Albert

things: electricity; nuclear energy; oil; temperatures; thermal power; water power; wind power

England (country in the U.K.)

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people: Beatles, the; Carroll, Lewis; Cayley, Sir George; Darwin, Charles; Dench, Judi; Dickens, Charles; Elizabeth I; Goodall, Jane; Halley, Edmond; Herschel, Sir William; Newton, Sir Isaac; Shakespeare, William

places: English Channel; London; Scotland; Stonehenge; Wales; White Cliffs of Dover

stories: Knights of the Round Table
things: literature; tea; theater

English Channel, also called La Manche (waterway)

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music: classical music; folk music; jazz; orchestra; popular music

performing arts: cinema; dance; opera; theater

other things: bullfighting; radio; television; vaudeville

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Enya (Irish singer)

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Eoraptors (dinosaurs)

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Epistles (sacred texts)

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Erebus, Mount (mountain in Antarctica)

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Ericson, Leif, also called Leif Eriksson (explorer)

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Erie, Lake (lake in North America)

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Great Lakes *volume 9 page 23*

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Eriksson, Leif (explorer): *look under* Ericson, Leif

“Eroica” (symphony by Beethoven)

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places: Addis Ababa; Eastern Africa

Etna, Mount (volcano in Italy)

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Etosha National Park (park in Namibia)

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eucalyptus trees, *also called* gum trees, or stringybark trees

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Europa (moon of Jupiter)

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other places: English Channel; Jura Mountains; Mediterranean Sea; Stonehenge

people: Charlemagne; Vikings

animals: bats; chameleons; horses;

mammoths and mastodons;

mongooses; muskrats; porcupines;

sheep; walruses; wild goats; wisents; wolves

stories: Aesop's fables; Atlas; dragons; "Golem of Prague, The"; Knights of the Round Table; "Odysseus and the Cyclops"; Trojan Horse, The

European bison (animals): *look under* wisents

European Union (international organization)

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Eurotunnel, *also called* Chunnel

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English Channel *volume 6 page 30*

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evening star (planet): *look under* Venus

Everest, Mount, *also called* Sagarmatha (mountain in Asia)

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Everglades (Florida, U.S.)

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evolution (scientific theory)

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Charles Darwin *volume 4 page 73*

Galapagos Islands *volume 9 page 68*

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Excalibur (legendary sword)

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exploration: *look under*

people: astronauts; Columbus,

Christopher; Gama, Vasco da; Garay,

Juan de; Hillary, Edmund; Magellan,

Ferdinand; Vikings

things: spacecraft

extraterrestrial life

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eyes

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Eyre, Lake (lake in Australia)

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fables

ARTICLE *volume 5 page 7*

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stories: Aesop's fables

other kinds of stories: folktales;

legends; myths

fairy tales

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false chameleons (lizards): *look under* anoles

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animals: buffalo; cattle; llamas; pigs; sheep; yaks

plants: barley; corn; fruits and vegetables; peanuts; rice; rubber trees; seaweed; sugarcane; wheat

people: Burbank, Luther

other things: irrigation

fasting (religious practice)

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Fathy, Hassan (Egyptian architect)

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other architects: Michelangelo; Pei, I. M.

Fatima (village in Portugal)

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feathers

feathers

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ferns (plants)

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fossils photograph *volume 1 page 84*

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Fertile Crescent (region of the Middle East)

ARTICLE *volume 7 page 65*

LEARN MORE *look under* Middle East

“Festival Day” (painting by Hiroshige)

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“Fifty-three Stations of the Tokaido”

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Filipinos (people): *look under* Philippines

film (photography)

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for more animals look under: marine animals

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Sri Lanka photograph *volume 7 page 63*

Fitzroy, Mount (mountain in Argentina)

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Andes photograph *volume 9 page 67*

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Five Books of Moses (sacred text): *look under* Torah

five-lined skinks (reptiles)

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“Five Weeks in a Balloon” (book by Verne)

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flamenco (music and dance)

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LEARN MORE *look under* aircraft; bats; birds; insects

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Florence (city in Italy)

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Florida (state in the U.S.)

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Florida Everglades (Florida, U.S.): *look under* Everglades

flowering plants: *look under* cactus; cotton; flowers; fruits and vegetables; grasses; nightshade

trees: eucalyptus trees; rubber trees

flowers

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“Flyer I” (airplane)

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“Flyer II” (airplane)

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folding (landforms)

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folk arts and crafts

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LEARN MORE *look under* folk dances; folk music; folktales; weaving

folk dances

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other things: fables; folk arts and crafts; legends; myths

food

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“How Kangaroo Got His Tail”

(Australian folktale)

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other folktales: “Ananse and the
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The”; “Poor Man and the Flask of
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jackrabbits

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other singers: Khan, Nusrat Fateh Ali; Te Kanawa, Kiri

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Table Mountain (mountain in South Africa)

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Tagore, Rabindranath (Indian poet)

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tahrs (animals)

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Taj Mahal (building in India)

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Tallchief, Marjorie (American dancer)

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Taoism (religion and philosophy): *look under* Daoism

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Te Kanawa, Kiri, *also called* Dame Kiri Te Kanawa (New Zealand opera singer)

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other singers: Khan, Nusrat Fateh Ali; Sutherland, Joan

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things: coffee; leaves

tea roses

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technology: *look under*

inventions: airplanes; automobiles; Braille; calendars; computers; Internet and the World Wide Web; measurement; medicine; motion pictures; paper; photography; printing; radio; ships; spacecraft; submarines; telephones; telescopes; television; transportation; weaving
other things: astronauts; deafness; electricity; nuclear power plant; oil; pollution; thermal power; water power; wind power

Tehran (city in Iran)

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Telc (village in Czech Republic)

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people: Dench, Judi; Henson, Jim

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Roman Forum photograph *volume 6 page 90*

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other religious buildings: churches; gurdwaras; mosques; synagogues

Ten Commandments (Old Testament)

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Tenochtitlán (ancient city in Mexico): *look under* Mexico City

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Tenzing Norgay (Nepalese mountain climber)

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Teresa, Mother, *also called* Agnes Gonxha Bojaxhiu (Roman Catholic nun)

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terraces (agriculture)

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Teufelsberg (hill in Berlin, Germany)

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Texas (state in the U.S.)

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textiles: *look under* cloth; weaving

Thailand (country)

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animals: tapirs

places: Bangkok; Southeast Asia

Thames, River (river in England)

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Thant, U (leader of the United Nations)

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beliefs: Buddhism

people: Arafat, Yasir; Begin,

Menachem; King, Martin Luther, Jr.;

Mandela, Nelson; Sadat, Anwar el-;

Teresa, Mother

theater (arts)

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places: Abbey Theatre; Broadway; Dionysus, Theater of; England; Ontario

things: opera

theatrical dance, *also called* character ballet

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Fanny Elssler *volume 4 page 13*

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thermal power

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Lewis Carroll *volume 3 page 59*

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Thunderbird (American Indian myth)

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Tiberias, Lake, *also called* Sea of Galilee (lake in Israel)

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Tibet (autonomous region in China)

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people: Tenzing Norgay

religion: Buddhism; Dalai Lama

animals: donkeys; giant pandas; yaks

tidal bores (waves in a river)

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tidal waves: *look under* tsunamis

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“Tiger in the Trap, The” (Korean folktale)

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other Asian stories: Moni Mekhala and Ream Eyso; “Poor Man and the Flask of Oil, The”; “Yeh-Shen”

other folktales: “Ananse and the Wisdom Pot”; “How Kangaroo Got His Tail”; “Monkey Court, The”; “Rabbit Throws Away His Sandal”; “Why Possum’s Tail Is Bare”

tigers

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timber wolves: *look under* gray wolves

“Titanic” (ship)

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Tivoli Gardens (garden in Copenhagen, Denmark)

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toads (animals)

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Tokaido (ancient road in Japan)

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Tokyo (city in Japan)

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“Tom Sawyer” (book by Twain)

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Tonkin (city in Vietnam): *look under* Hanoi

Tonquin (city in Vietnam): *look under* Hanoi

Torah, *also called* Five Books of Moses, *or* Law, *or* Pentateuch (sacred text)

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- Tower of London** (building in London, England, U.K.)
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- Tower of the Juche Idea** (Pyongyang, North Korea)
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- transmitters**
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Twain, Mark, *also called* Samuel Langhorne Clemens (American writer)

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“Twenty Thousand Leagues Under the Sea” (book by Verne)

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“Two Boys with Two Mastiffs” (painting by Goya)

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Francisco de Goya illustration *volume 4 page 15*

type, *also called* movable type (printing)

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printing *volume 2 page 90*

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tyrannosaurs, *also called*

Tyrannosaurus rex (dinosaurs)

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UFOs, *also called* unidentified flying objects

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Uganda (country)

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places: Eastern Africa; Kampala
animals: alligators and crocodiles;
antelope; chimpanzees; elephants;
giraffes; hippopotamuses; lions

ukiyo-e (Japanese art)

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Ukraine (country)

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folk arts and crafts photograph
volume 3 page 6

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Europe; Russia

ungulates (animals with hooves): *look under* alpacas; bison; buffalo; camels; cattle; donkeys; elephants; gazelles; hippopotamuses; hooves; horses; llamas; mammoths and mastodons; pigs; sheep; tapirs; wild goats; yaks

unidentified flying objects: *look under* UFOs

uniform resource locator, *also called* URL (computer science)

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Union of Soviet Socialist Republics, *also called* Soviet Union, or U.S.S.R. (historic nation in Eurasia)

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people: Beatles, the; Carroll, Lewis; Cayley, Sir George; Christie, Agatha; Darwin, Charles; Dench, Judi; Dickens, Charles; Goodall, Jane; Halley, Edmond; Herschel, Sir William; Newton, Sir Isaac; Shakespeare, William

places: Belfast; Edinburgh; England; English Channel; London; Scotland; Stonehenge; Wales; Western Europe; White Cliffs of Dover

stories: Knights of the Round Table

United Nations (international organization)

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United States of America (country)

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people: Ailey, Alvin; Aldrin, Edwin E.; American Indians; Armstrong, Louis; Basie, Count; Blackwell, Elizabeth; Brooks, Gwendolyn; Burbank, Luther; Dickinson, Emily; Einstein, Albert; Ford, Henry; Henson, Jim; Keller, Helen; King, Martin Luther, Jr.; Pei, I. M.; Santana, Carlos; Tallchief, Maria; Twain, Mark; Wright brothers

places: Alaska; Boston; Death Valley; Florida; Grand Canyon; Great Lakes; Hawaii; Honolulu; New York City; Niagara Falls; Puerto Rico; Washington, D.C.
animals: armadillos; bison; coyotes; manatees; ocelots; opossums; porcupines; raccoons; wolves
stories: Bunyan, Paul

universe

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Uranus, *also called* Georgium Sidus (planet)

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U.S.S.R. (historic nation): *look under* Union of Soviet Socialist Republics



valley glaciers (ice formations)

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van Gogh, Vincent (Dutch painter)

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vanilla

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Vatican City (city and state)

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vaudeville

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Venus (planet)

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Venus's-flytrap (plant)

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Verne, Jules (French writer)

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