

Index

- Aaron, Henry**, 76
AARP Magazine, 154
Abaco Islands
 See Bahamas
Abbreviations, 165, 168, 71
 of days, 9
 of months, 10
 of state names, 100
 of parts of speech, 150
 UPI, AP, 153
 measurement units, 204-205, 43
 in note-taking, 220
Abernathy, Ralph, 76
Abidjan, Côte d'Ivoire, 135, 228
Abraham, 70, 76, 89
Abraham Lincoln, (a book), 158
Absolute zero, 205
Abu Dhabi, United Arab Emirates, 67, 135
Abuja, Nigeria, 62, 135
Abyssinia
 See Ethiopia
Acadia National Park, 104
Accidents, 44
Accordion, 83
Accra, Ghana, 56, 135
Acherner, 13
Acid, 29
Aconagua Peak, 28, 49, 50, 134
Acre (measurement), 204
Acropolis, 71
Adam of the Road, 159
Adams, Ansel, 76
Adams, John, 128, 76, 111
Adams, John Quincy, 128, 76, 149
Adams, Richard, 160
Adams, Samuel, 76, 111
Adams, Thomas, 84
Addams, Jane, 76
Adding machine, 83
Addis Ababa, Ethiopia, 56, 149, 135
Addis, William, 85
Addition, 200
Addresses
 National Parks, 104-107
 government officials, 126-127
 abbreviations in, 165, 100
 addressing letters and envelopes, 189-191
 pen pals, 190
 in phone directory, 155
Adjectives, 180, 150
 adjective-forming suffixes, 178
Adobe, 109
Adriatic Sea, 47, 136
Adventures of Pinocchio, 160
Adverbs, 182, 150
 adverb-forming suffixes, 178
Advertisements, 153, 154, 155
Aegean Sea, 47, 136
Aerophones, 195
Aesop, 76, 160
Afar & Issas
 See Djibouti
Afghanistan, 51, 3, 137
Africa, 49, 23, 25, 46-50, 68, 140, 146-148, 164
 maps of, 135, 48
 countries of, 51-68
 religions, 90
 See also Continents: Livingstone, David; Stanley, Henry Morton
African-Americans
 holiday (Kwanzaa), 8
 suffrage, 118 (Amendment 15)
 See also King, Martin Luther, Jr.; Slavery
Afsluitdijk, 88
Age of Reason, 74-75
Agra, India, 87, 137
Agriculture, Secretary of, 127
Air, 20-23, 24, 33, 39, 227, 228
Air brake
 See Brake, air
Airplane, 75, 83, 23
 standard day, 23
 phonetic alphabet, 163
Akashi-Kaikyo Bridge, 86
Akron, Ohio, 105, 141
Alabama, 92, 100, 131
Alaska, 92, 100, 23, 28, 47, 50, 188, 191, 129, 130, 132
 earthquake, 29
 National Parks, 105-107
 natives, Eskimos, 108
 See also Seward, William H.
Alaska Range, 50, 129
Albania, 51, 68, 136
Albany, New York, 97, 131
Albert Canal, 86
Albuquerque, New Mexico, 101, 130
Alcohol
 prohibition, 119 (Amend. 18 & 21)
Alcott, Louisa May, 76, 160
 See also *Invincible Louisa*
Aldebaran, 13
Aldrin, Edwin E., Jr., 18
Alexander, Lloyd, 157, 159
Alexander the Great, 76
Alexandrite, 10
Algae, 26, 227
Algeria, 51, 135
Algiers, Algeria, 51, 135
Algonquin tribe, 108
Ali, Muhammad, 76
Alice in Wonderland, 160
Alimentary canal, 40
All Saints' Day, 8
Allah, 90
Allen, Ethan, 76
Alligator, 35
Alloy, 33, 227
Almanacs, 145, 151, 221, 224
Alpha, Bravo, Charlie, 163
Alpha Centauri, 13
Alpha Crucis, 13
Alphabet, 162-164
 frequency of letters, 162, 229
Alps, 50, 28
Altair, 13
Altimeter, 23
Altitude, 23, 24
 of mountains, 49, 50
 of states, 92-100
 of cities, 101-103
 of highest flying bird, 36
Aluminum, 32, 33, 83
Always Room for One More, 158
Alzheimer's disease, 44
Amazon River, 48, 134
Amendments to Constitution, 112, 117-120
 provision for, 116 (Article 5)
America
 discovery of, 72, 73, 8
 See North America; South America; United States; Vespucci, Amerigo
American history, 143
 See also History
American manual alphabet, 163
American natives (Indians), 108-109, 8, 106, 229
 origins of state names, 92-100
American Red Cross, 210
American Revolutionary War, 75, 122, 143 (time line)
American Samoa, Natl. Park of, 104
Amethyst, 10
Amman, Jordan, 58, 135
Ammonia, 33
Amos Fortune, Free Man, 159
Amphibians, 35, 26
Amsterdam, The Netherlands, 62, 136, 228
Amsterdam-Rhine Canal, 86
Amundsen, Roald, 76
Anaconda, 36
Anarchism, 121
Anaxagoras, 17
Anchorage, Alaska, 129, 130
Ancient Empires, 48
 See Roman Empire; Greece, Ancient; Inca Empire; Aztec Empire
...And Now Miguel, 159
Anders, William A., 18
Andersen, Hans Christian, 76, 160
Anderson, Marian, 76
Andes, 50, 28, 134
Andorra, 51, 136
Andorra la Vella, Andorra, 51
Andromeda Nebula, 227
Anemia, 42, 43
Anemometer, 23
Anesthetic, 83
Angel Falls, 47
Angles, 206, 207
Anglo-Saxon, 9
Angola, 51, 135
Animals, 34-37, 11, 26, 30, 227
 ground hog, 6
 speeds of, 36, 227
 state birds, 92-100
 symbols, 124-125
 in National Parks, 104-107
Animals of the Bible, 158
Ankara, Turkey, 66, 135
Annapolis, Maryland, 95, 131
Annapurna, 50
Anne Frank: Diary of a Young Girl, 160
Anne of Green Gables, 160
Annelida, 35
Antananarivo, Madagascar, 60, 135
Antarctic Circle, 12, 24, 132-33
Antarctica, 49, 23, 25, 36, 50, 48, 132-33
Antares, 13
Antelope, 36, 109
Anthem, national, 124
Anthony, Susan B., 76
Anthracite, 30
Antigua and Barbuda, 51, 132
Antiseptic, 83
Antony, Mark, 76
Aon Centre, 88
Apache tribe, 109
 See also Cochise; Geronimo
Apennine Tunnel, 87
Apes, 26
Aphelion, 227
Apia, Samoa, 64
Apollo astronauts, 18
Appalachians, 50, 28
Appendix in book, 148
Appert, Nicolas, 83
Appleseed, Johnny, 76
Aqua-lung
 See Scuba gear
Aquamarine, 10
Arab, 72-74, 90, 164
 See also Islam
Arabian Desert, 49
Arabian Sea, 47, 135, 137
Arachnida, 35
Arafat, Yasser, 76
Aral Sea, 46, 228, 137
Arapahoe tribe, 109
Ararat, Mount, 50
Arc de Triomphe, 87
Archaeopteryx, 26
Arches National Park, 104
Archimedes, 76
Arctic Circle, 12, 24, 131-138
Arctic Ocean, 46, 49, 129, 137, 48
Arctic tern, 36
Arcturus, 13
Area
 of oceans, lakes, seas, 46-47
 of continents, islands, deserts, 49
 of countries, 51-68, 228
 of states, 92-100, 229
 of cities, 101-103
 of world, 228
 measurement of, 204, 207
Area codes, 155
Argentina, 51, 28, 103, 134
Argon, 32
Arikana tribe, 109
Aristocracy, 121
Aristotle, 76
Arithmetic, 198-203
Arizona, 92, 100, 88, 102, 103, 26, 130
 National Parks, 105, 107
 native tribes, 109

ARKANSAS

Arkansas, 92, 100, 106, 128, 137
 Arkansas River, 48, 129
 Arlberg Tunnel, 87
 Armenia, 51, 68, 137
 Armer, Laura Adams, 159
 Armistice Day
 See Veterans Day
 Armstrong, Louis, 76
 Armstrong, Neil A., 16, 18, 75, 76
 Armstrong, William H., 159
 Arnold, Benedict, 76
Around the World in 80 Days, 160
Arrow to the Sun, 158
 Arsenic, 32
 Art, 196, 108-109
 library classification, 145
 Arteries, 39
 Arthropoda, 35
 Arthur, Chester A., 128, 76
 Arthur, King, 76
 Articles of Confederation, 120
 Artificial respiration, 210
 Ascorbic acid, 42
Ashanti to Zulu, 158
 Ashkhabad, Turkmenistan, 66, 137
 Asia, 48, 49, 37, 46-50, 68, 140, 228
 countries of, 51-68
 map of, 137, 48
 See also Continents
 Asmara, Eritrea, 55, 135
 Aspirin, 83
 Assali, Lake, 49, 135
 Assassination
 of Martin Luther King, Jr., 6
 of Abraham Lincoln
 See Booth, John Wilkes
 Assembly, freedom of, 117
 (Amendment 1)
 Assiniboine tribe, 109
 Associated Press, 153
 Astaire, Fred, 76
 Astana, Kazakhstan, 58, 137
 Asteroids, 14
 Astoria Bridge, 229
 Astronauts, 18, 17
 Astronomy, 13-18, 230
 Asunción, Paraguay, 62, 134
 Aswan, Egypt, 88, 135
 Atacama Desert, 49, 23, 134
 Atahualpa, 76
 See also Inca Empire
 Athens, Greece, 56, 71, 136
 Atlanta, Georgia, 101, 93, 131
 Atlantic Ocean, 46, 49, 109, 129-136,
 48
 Atlantic salmon, 37
 Atlas, 142, 145, 224
 Atlas Mountains, 50, 135
 Atlatl, 109
 Atmosphere, 20-23, 14, 24, 228
 moon, 16-17
 Atmospheric pressure, 23, 24, 33, 46
 Atoms, 32-33, 14, 227
 atomic bomb, 75
 atomic clock, 227
 atomic theory, 82
 See also Nuclear energy
 Attorney General, 127
 Attucks, Crispus, 76
 Audubon, John James, 76

Augusta, Maine, 94, 137
 Augustus Caesar, 71, 76, 11
 Aurora Australis, 20
 Aurora Borealis, 20
 Austin, Stephen, 76
 Austin, Texas, 101, 98, 130
 Australasia
 See Oceania
 Australia, 49, 51, 25, 47, 50, 140,
 138, 48
 Australian Desert, 49
 Austria, 51, 82, 87, 136
 Authoritarianism, 121
 Authors, 157, 159-160, 76-81,
 146-148
 Autocracy, 121
 Automobiles, 83, 31
 See also Ford, Henry; Car; Motor
 vehicle tunnels
 Autumn, 7, 12, 24
 Avi, 159
 Avocados, 42
 Awards, 158, 159
 See also Nobel peace prize
 Axis of earth, 9, 12, 140
 Azarian, Mary, 158
 Azerbaijan, 51, 68, 137
 Azimuthal equidistant projection,
 141
 Azov, Sea of, 47, 137
 Aztec Empire, 73, 74
 See also Cortés, Hernando;
 Montezuma II

Baboushka and the Three Kings,
 158

Babylonians, 17
 Baca, Elfego, 76
 Bach, Johann Sebastian, 76
 Bacon, 43
 Bacteria, 37, 82, 214, 227
 Baden-Powell, Lord, 76
 Badlands National Park, 104
 Baffin Island, 49, 129
 Baghdad, Iraq, 58, 135
 Bahamas, 52, 129, 137
 Bahrain, 52, 68, 135
 Baikal, Lake, 46, 137
 Bailey, Carolyn, 159
 Baird, John, 85
 Baking soda, 33
 Baksheesh, 148
 Baku, Azerbaijan, 51, 137
 Balanced diet, 41-43
 Balboa, Vasco Núñez de, 76
 Bald eagle, 125
 See also Eagle
 Balkans, 68
 See also individual countries
 Balloon, hot air, 83
 Ball-point pen, 84
 Baltic Sea, 47, 136
 Baltic States, 68
 Baltimore, Maryland, 101, 137
 Bamako, Mali, 60, 135
 Banda Islands
 See Indonesia
 Banda Sea, 47, 137, 138
 Bandar Seri Begawan, Brunei, 53
 Bangkok, Thailand, 66, 137

Bangladesh, 52, 90, 23, 103, 143
 (table), 137
 Bangui, Central African Republic,
 53, 135
 Banjo, 195
 Banjul, Gambia, 56, 135
 Bank of China, 88
 Banneker, Benjamin, 76
 Bannister, Sir Roger, 76
 Bannock tribe, 108
 Baptist, 90
 Bar graph, 143
 Barbados, 52, 132, 134
 Barbed wire, 83
 Barbuda
 See Antigua & Barbuda
 Barents Sea, 47, 136, 137
 Barnum, P. T., 76
 Barometer, 23, 83, 227
 Barrie, James M., 160
 Barrow, Alaska, 100, 129, 130
 Barton, Clara, 76
 Basic food groups, 41
 Basketball, 83, 44
 Basketry, 108, 109
 Bass (fish), 35
 Bass, Sam, 76
 Basseterre, St. Kitts & Nevis, 63
 Basutoland
 See Lesotho
 Bat, 26, 35
 Bathyscaph, 46
 Baton Rouge, Louisiana, 94, 137
 Battery, electric, 83
 Battle Hymn of the Republic
 See Howe, Julia Ward
 Battle of Wounded Knee, 229
 Baumfree, Isabella
 See Truth, Sojourner
 Bean, Judge Roy, 76
 Beans, 41, 109, 229
 Bears, 35, 36, 106
 Beaver, 35
 Becquerel, A. E., 84
 Beef, 41, 42, 43
 Beethoven, Ludwig van, 76
 Beetle, 26, 36
 Beijing, China, 54, 137
 Beirut, Lebanon, 59
 Baird, John, 85
 Belarus, 52, 68, 136, 137
 Belgian Congo
 See Zaire
 Belgium, 52, 68, 86, 136
 Belgrade, Serbia, 64, 136
 Beliefs, 89-90
 Belize, 52, 68, 129
 Bell, Alexander Graham, 76, 85
 Bella Coola tribe, 108
 Belmopan, Belize, 52, 129
 Bemelmans, Ludwig, 158
 Benin, 52, 228, 135
 Benz, Karl, 83
 Beothuk tribe, 108
 Beriberi, 42
 Bering Sea, 47, 129, 137
 Bering Strait, 129
 Berlin, Germany, 56, 136
 Bern, Switzerland, 65, 136
 Bernhardt, Sarah, 76
 Beta Centauri, 13

Betelgeuse, 13
 Better Homes and Gardens, 154
 Bethune, Mary McLeod, 76
 Bhutan, 52, 137
 Bi Sheng, 84
 Bible, 89, 90, 2, 48, 50, 73, 124, 164
 Bibliography, 148, 220, 224-225
 library classification, 145
 Bicycle, 83, 44
 Big Bend National Park, 104
 Big Dipper, 13
Big Snow, The, 158
Biggest Bear, The, 158
 Bighorn sheep, 37
 Bill of Rights, 112, 117, 120
 Bills (money), 208
 Billy the Kid, 76
 Bin Laden, Osama, 76
 Biology, 34-40
 Birds, 35-36, 26, 125
 endangered, 37
 state birds, 92-100
 Birdseye, Clarence, 83
 Birthstones, 10
 Biscayne National Park, 104
 Bishkek, Kyrgyzstan, 59, 137
 Bismarck, North Dakota, 97, 130
 Bissau, Guinea-Bissau, 57, 135
 Bituminous, 30
Black and White, 158
 Black Canyon of the Gunnison
 National Park, 104
 Black Death, 73
 Black Hawk, 76
 See also Sauk Indians
 Black Hills, 107
 Black Holes, 13
 Black Kettle, 76
 See also Cheyenne Indians
 Black Sea, 47, 135-136
 Black, Shirley Temple
 See Temple, Shirley
Black Stallion, The, 160
 Blackbeard, 76
 Blackfoot tribe, 109
 Blackstrap molasses, 43
 Blackwell, Antoinette Brown, 76
 Blackwell, Elizabeth, 76
 Bleeding, 210
 Blindness
 See Braille; Night blindness
 Bloemfontein, South Africa, 65
 Blood, 39, 40, 38, 42, 43, 82, 210
 Blood pressure, 44
 Bloodstone, 10
 Bloomer, Amelia, 76
 Bloss, Joan, 159
 Blue Ridge Mountains, 107
 Blue whale, 36, 37, 227
 Bluford, Guion S., Jr., 76
 Bly, Nellie, 76
 Body, 34
 body systems, 38-40
 nutrition, 41-43
 Body mass index, 55-56, 227
 Bogart, Humphrey, 76
 Bogotá, Colombia, 54, 134
 Bohr, Niels, 32
 Boiling point, 33, 205
 Boise, Idaho, 93, 130

BOLIVAR

- Bolívar, Simón**, 76
Bolivia, 52, 134
Bologna, 43
Bombay, India
See **Mumbai**
Bonaparte, Napoleon, 76, 75
Bones, 38, 41-43, 69, 211
in animals, 35
use by native tribes, 108-109
Books, 142, 144-151, 155-160, 70, 225
Boone, Daniel, 76
Booth, John Wilkes, 76
Borman, Frank, 18
Borneo, 47, 49, 137
Bosnia-Herzegovina, 52, 68, 228, 136
Bosporus bridges, 86
Boston, Massachusetts, 101, 95, 137
Boston Massacre, 143 (time line)
Boston Tea Party, 143 (time line)
Botswana, 52-53, 135
Boy Scouts
See **Baden-Powell, Lord**
Boys Town Hot Line, 155
Brachiopods, 26
Brahman, 89
Brahms, Johannes, 76
Braille, 163, 76, 83
Brain, 40, 34
Brake, air, 83
Bran, 42, 43
Branches of government, 126-127
Brando, Marlon, 76
Brant, Joseph, 76
Brasilia, Brazil, 53, 134
Brass, 33
Bratislava, Slovakia, 64, 136
Bratsk Dam, Russia, 88
Brazil, 53, 103, 143 (table), 134, 229
Brazzaville, Congo, 54, 135
Bread, 41, 42
Breathing, 39, 210
Brezhnev, Leonid, 76
Bridalveil Falls, 47
Bridge to Terabithia, 159
Bridger, Jim, 76
Bridges, 86, 87, 229
Bridgetown, Barbados, 52
Brink, Carol Ryrrie, 159
Bristlecone pine, 36, 105, 96
British, 122, 143
See **United Kingdom; England**
Broken bones, 210, 211
Bromine, 32
Bronze, 33
Bronze Bow, The, 159
Brooklyn Bridge, 86
Brown, John, 76
Brown, Marcia, 158
Brown pelican, 37, 94
Browning, Elizabeth Barrett, 76
Brunei, 53, 68, 137, 133
Brussels, Belgium, 52, 136
Bryan, William Jennings, 76
Bryce Canyon Natl. Park, 104
Bubonic plague, 72, 73
Buchanan, James, 128, 76
Bucharest, Romania, 63, 136
Buchla, Donald, 85
Bud, Not Buddy, 159
Budapest, Hungary, 57, 136
Buddha, 76, 89
Buddhism, 71, 76, 89
Budding, Edwin, 84
Buenos Aires, Argentina, 103, 51, 134
Buffalo, 109, 229
Buffalo Bill Cody, 77
Buildings, 87, 88
Bujumbura, Burundi, 53, 135
Bulgaria, 53, 68, 164, 136
Burbank, Luther, 77
Burger, Warren E., 127
Burkina Faso, 53, 135
Burma
See **Myanmar**
Burnett, Frances Hodgson, 160
Burnford, Sheila, 160
Burns, 211
Burns, Robert, 77
Burr, Aaron, 77
Burroughs, William, 83
Burton, Virginia Lee, 158
Burundi, 53, 135
Bush, George H. W., 128, 77
Bush, George W., 128, 77
Bush, Vannevar, 83
Bushel measurement, 204
Business letter, 189, 191
Butter, 41, 43, 44
Byars, Betsy, 159
Byrd, Richard E., 77
Cabinet of U.S., 127
Cabot, John, 77
Cactus, 109, 92
Caddie Woodlawn, 159
Caddo tribe, 109
Cadmium, 32
Caecilians, 35
Caesar, Augustus, 71, 77, 11
Caesar, Julius, 71, 77, 10, 11
Cairo, Egypt, 55, 135
Calamity Jane, 77
Calcium, 32, 33, 43
Caldecott books, 158
Caldecott, Randolph, 158
Calendar, 4-5, 10-11, 2, 70, 72, 227, 230
Calendula, 10
California, 92, 100, 23, 28, 29, 47, 75, 88, 126, 130
cities, 101-103
National Parks, 104-107
natives, 108
structures, 86-88
presidents from, 128
California condor, 37
Call It Courage, 159
Call of the Wild, 160
Callisto, 17
Calorie, 41, 44, 227, 230
Calvin, John, 77
Cambodia, 53, 68, 137
alphabet, 164
Cambrian Period, 26
Camel, 26
Camera, 83
television camera, 85
Cameroon, 53, 135
Canada, 53, 47, 48, 50, 129
natives, 108-109
structures, 86
Canal zone, 100
See also **Panama Canal**
Canals, 86
Canary, Martha Jane
See **Calamity Jane**
Canberra, Australia, 51, 138
Cancer, 44
Cancer, Tropic of, 12, 24, 131-38
Canned food, 83
Canoe, 108-109
Canopus, 13
Canyonlands National Park, 104
Canyons, 104-107
Cape Town, South Africa, 65, 135
Cape Verde, 53, 135
Capella, 13
Capillaries, 39
Capitalism, 121
Capitalization, 168-169
first use of lower-case letters, 162
Capitals
of countries, 51-68, 228
of states, 92-100, 229
See also **Washington, D.C.**
Capitol Building, 126
Capitol Reef National Park, 104
Capone, Al, 77
Capricorn, Tropic of, 12, 24
Car, 69, 31
See also **Automobiles**
Caracas, Venezuela, 67, 134
Carbohydrates, 41
Carbon, 32
Carbon dioxide, 33, 34, 39
Carboniferous Period, 26
Caribbean Sea, 47, 23, 129, 134
countries of, 51-68
Caribou, 108
Carlsbad Caverns Natl. Park, 104
Carlson, Chester, 85
Carnation, 10, 97
Carnegie, Andrew, 77
Carnivores, 35, 37, 26
Carothers, Wallace H., 84
Carroll, Lewis, 160
Carrots, 42, 44
Carry On, Mr. Bowditch, 159
Carson City, Nevada, 96, 130
Carson, Kit, 77
Carter, James E., Jr., 128, 77
Cartilage, 35
Cartoons, 125, 143, 153
Cartwright, Edmund, 84
Carver, George Washington, 77
Cascade Tunnel, 87
Cascades Mountains, 50
Cash register, 83
Caspian Sea, 46, 49, 135, 137
Castries, St. Lucia, 63
Castro, Fidel, 77
Castro, Raul Hector, 77
Cat, 36, 31, 26
Cat Who Went to Heaven, 159
Catfish, 35
Cathedrals, 90
Catherine the Great, 77
Catholic Church, 73, 74, 90
See also **Pope Gregory XIII**
Cattle, 36, 41
Cavendish Laboratory, 32
Caves and caverns, 104-107, 69
Cayley, Sir George, 84
Cayman, 35
Cayuga tribe, 109
Celebrations, 6-8
Cell, 34, 39, 40, 42, 43
Cello, 195
Celsius, Anders, 85
Celsius scale (Centigrade), 205, 85
Cenezoic Era, 26
Census, 230
See **Population**
Centigrade
See **Celsius scale**
Centipedes, 26
Central African Republic, 53, 135
Central America, 68, 47
See also **individual countries**
Central Plaza, 88
Century, 2, 10, 72
Cereal, 83, 41, 42, 43
Ceres, 14
Ceylon
See **Sri Lanka**
Chad, 53-54, 135
Chad, Lake, 46
Chadwick, Sir James, 82
Chaffee, Roger B., 18
Chain saw, 31
Chalk, 30, 26
Challenger space shuttle, 18
Champlain, Samuel de, 77
Chang Heng, 85
Channel Islands Natl. Park, 104
Channel Tunnel, 87
Chanticleer and the Fox, 158
Chaplin, Charlie, 77
Chapman, John
See **Appleseed, Johnny**
Charlemagne, 77, 72
Charles, Prince, 77
Charleston, West Virginia, 99, 137
Charlie & the Chocolate Factory, 160
Charlotte, N. Carolina, 101, 137
Charlotte's Web, 160
Chase, Salmon P., 127, 208
Chavez, Cesar Estrada, 77
Cheese, 41, 42, 43
Cheetah, 36, 37, 227
Chemicals and chemical energy, 31-33, 34
body chemistry, 42-44
See also **Dyes, chemical**
Cheney, Richard, 77
Cherokee tribe, 109
See also **Sequoyah; Watie, Stand; Tennessee**
Chesapeake and Delaware Canal, 86
Chesapeake Bay, 124
Chewing gum, 84
Cheyenne tribe, 109
See also **Black Kettle**
Cheyenne, Wyoming, 130
Chiang Kai-shek, 77
Chicago, Illinois, 101, 88, 137
Chicago Sanitary & Ship Canal, 86

CHICKASAW

Chickasaw tribe, 109
Chicken, 35, 36, 41, 43, 93
Child Find of America, 155
Children's Crusade, 73
Chile, 54, 23, 29, 134
Chimaeras, 35
Chimpanzee, 37
China, 54, 68, 47, 48, 86, 88, 103, 143 (table), 137, 229
 religions, 89-90
 inventions, 83-85
 history, 70-73
See also Chinese calendar; Chinese language
China, Republic of
See Taiwan
China Seas, 47, 137
Chinese calendar, 11
Chinese language, 162
Chinese New Year, 11
Chinook tribe, 108
See also Washington (state)
Chippewa tribe, 109
Chisinau, Moldova, 61, 136
Chlorine, 32
Chlorophyll, 34
Choctaw tribe, 109
See also Alabama; Oklahoma
Cholesterol, 43
Chopin, Frédéric, 77
Chord, 194
Chordophone, 195
Chrisman, Arthur, 159
Christ, 7, 8, 11, 69, 72, 90
Christian Science
See Eddy, Mary Baker
Christianity, 90, 6-8, 72-74
See also Gregorian calendar
Christmas, 8
Chromium, 32, 227
Chromosomes, 34
Chronicles of Narnia, 157
Chrysanthemum, 10
Chuang Tzu, 90
Church, 90
 holidays, 6-8
Churchill, Sir Winston, 77
Cicadas, 26
Cincinnati, Ohio, 131, 141
Cinderella, or the Little Glass Slipper, 158
Circle, 207, 2, 229
Circle graph, 143
Circulatory System, 39
See also Shock
Circus
See Barnum, P. T.
Cirrostratus clouds, 20
Cirrus clouds, 20
CITIC Plaza, 88
Cities, 101-103, 142, 229
 capitals of countries, 51-68, 228
 capitals of states, 92-100, 229
 skyscrapers, 88
Citrus fruits, 42
Civil Rights
See King, Martin Luther, Jr.; Bill of Rights
Civil War, American, 75, 69
 Confederate States, 100
 holidays, 6, 7
 leaders, 76-81
 Gettysburg Address, 123
See also Davis, Jefferson; Grant, Ulysses S.; Jackson, Stonewall; Lee, Robert E.
Civilization, history of, 70-75
Clams, 26, 142
Clarinet, 195
Clark, Ann Nolan, 159
Clark, William, 77
See also Lewis & Clark
Classic books, 157-160
Classified ads, 153
Clay, Cassius
See Ali, Muhammad
Clay, Henry, 77
Cleary, Beverly, 159
Cleaver, Vera & Bill, 160
Clemens, Samuel L. (Mark Twain), 77
Cleopatra, 71, 77
Cleveland, Ohio, 101, 105, 131, 141
Cleveland, Grover, 128, 208, 77
Climate, 24
See also Weather
Clinton, William J., 128, 77
Clock, 2, 3, 7, 8, 83
Clothing of native tribes, 108-109
Clouds, 20-22
 Coal, 30, 31, 26
Coatsworth, Elizabeth, 159
Cochise, 77
See also Apache Indians
Cockroach, 26
Cocoa powder, 43
Cody, William Frederick, 77
Coelacanth, 26
Coelenterata, 35
Coffee, 43
Coins, 208
Cold blooded, 35
Cold front, 22
Collins, Michael, 18
Collodi, Carlo, 160
Colombia, 54, 134
Colombo, Sri Lanka, 65, 137
Colonies, American, 10, 74, 124, 110
Colorado, 92-93, 100, 101, 109, 130
 National Parks, 104-107
Colorado River, 48, 105, 129
Colorado Springs, Colorado, 101, 130
Colors, 196
 holidays, 6-8
 on flag, 124
 on maps, 141, 142
 use in organizing notes, 220
Colosseum, Roman, 72
Colt, Samuel, 84
Columbia, South Carolina, 98, 137
Columbia space shuttle, 18
Columbus, Ohio, 97, 101, 131, 141
Columbus, Christopher, 73, 77, 69, 8
Columbus Day, 6, 8
Comanche tribe, 109
Comets, 14-15
Commerce, Secretary of, 127

Common Market (European), 68
Commonwealth of Independent States, 68
Communism, 121, 75, 89
Comoros, 54, 135
Compass, 2, 83, 70
Compass rose, 141
Compounds, 33
Computer, 82, 83, 152
 in libraries, 144, 149, 154
 keyboard, 164
Conakry, Guinea, 57, 135
Concord, New Hampshire, 96, 137
Condensing, 33
Condor, 37
Confederate States, 100
See also Davis, Jefferson
Confederation, Articles of, 120
Confucianism, 89-90, 71
Confucius, 77, 71, 89
Congaree National Park, 104
Conglomerate rock, 30
Congo, 54, 135
Congo, Democratic Republic of, 54, 135, 228
Congo River, 48, 147, 135
Congregationalist Church, 90
Congress, 126, 104, 125, 144
 in Constitution, 112-120, especially 112-114 (Article 1), 116, 118-119 (Amendments 14 & 17)
 Second Continental Congress, 110
Conifer, 26
Conjunctions, 182, 150
Connecticut, 93, 74, 100, 111, 116, 128, 131, 142
Consonants, 162, 164
Constantine, 72
Constellations, 13
Constitution, U.S., 112-120, 75
Constitutional convention, 120
Continental Plates
See Tectonic Plates
Continents, 49, 48
 countries of, 51-68
Contractions, 166, 180
Conversations, 212-213
 punctuating dialog, 167
Conversion, 230
 fraction-decimal, 203
 measurement units, 204-205
Cook, James, 77
Cooking, 33
Coolidge, Calvin, 128, 77, 122
Cooney, Barbara, 158
Cooper, Susan, 159
Copenhagen, Denmark, 55, 136
Copernicus, Nicolaus, 77, 74, 82, 17
Copper, 32, 33, 30
 use by native tribes, 108
Copyright, 146, 220, 224
Coral, 26, 35, 104
Core of earth, 25
Corn, 109, 229, 41
See also Paricutin
Corn Flakes Cereal, 83
Cornucopia, 8
Cornwallis, Charles, 77
Cortés, Hernando, 77, 74

CURSIVE

Cortina, Juan Nepomuceno, 77
Cosby, Bill, 77
Cosmonauts, 18
Costa Rica, 54, 68, 134
Cotonou, Benin, 228
Cotopaxi, 28, 50
Cottage cheese, 41, 43
Cotton, 109
Cotton gin, 83
See also Whitney, Eli
Countries, 51-68, 143 (table), 88
 structures, 86-88
 maps of, 129-138
Court, 127
Courtesy, 212-215, 216
Cousteau, Jacques-Yves, 77, 85
Cow, 35, 36
Crab, 35
Crane, Clarence, 84
Crater, 14, 16
 volcanic, 27
Crater Lake National Park, 105
Crazy Horse, 77
See also Sioux Indians
Creation, 2, 11, 89
Creative thinking, 40
See also Writing; Music; Art
Cree tribe, 108
Creech, Sharon, 159
Creek tribe, 109
Crescent and Star, 90
Crescent moon, 16
Cretaceous Period, 26
Crime Tips Hot Line, 155
Crinoids, 26
Crippen, Robert L., 18
Crispin: The Cross of Lead, 159
Criss Cross, 159
Cristofori, Bartolommeo, 84
Croatia, 54, 68, 228, 136
Crockett, David, 77
Crocodile, 35, 36, 37, 26
Crompton, Samuel, 85
Cross (Christian), 90, 7
Cross-references, 148, 149
Crow, 35
Crow tribe, 109
Crum, George, 84
Crusades, 73
Crust of earth, 25, 27
Crustacea (crustaceans), 35, 26
Crystals, 30
Cuba, 54, 129
See also Castro, Fidel
Cubic measure
See Volume
Culture
 of native Americans, 108-109
 religion, 89-90
Cumulonimbus, 20, 22
Cumulus clouds, 20
Cuquenán Falls, 47
Curie, Marie, 77
Curie, Pierre, 77
Currencies, 51-68, 228
 exchange rates in newspaper, 153
See also Money
Cursive writing, 162

CURTIS

- Curtis, Christopher Paul**, 159
Cushman, Karen, 159
Custer, George Armstrong, 77, 75
Custer's Last Stand, 75
Customs
 of native Americans, 108-109
 religion, 89-90
Cuyahoga River, 105
Cuyahoga Valley Natl. Park, 105
Cycles, 2
 water cycle, 21
 year cycles in calendars, 11, 227
 cycle of seasons, 12
 moon's cycle, 16
 energy cycles, 31
 of holidays in Islamic calendar, 227
Cyclones, 22
Cymbals, 195
Cyprus, 54-55, 68, 135
Cyrillic Alphabet, 164
Cytoplasm, 34
Czech Republic, 55, 136, 228
Czechoslovakia, 228
See Czech Republic, Slovakia
- d'Abbans, Claude de Jouffroy**, 85
Daguerre, Louis, 84
Daguerrotype, 84
Dahl, Roald, 160
Daimler, Gottlieb, 84
Dairy products, 42, 142
See also Milk; Cheese
Daisy, 10
Dakar, Senegal, 64, 135
Dali, Salvador, 77
Dallas, Texas, 101, 130
Dalton, John, 82
Damascus, Syria, 65, 135
Damian, Cyrillys, 83
Dams, 88, 31
Daniel Boone, 159
Danube River, 48, 136
Dar es Salaam, Tanzania, 228, 135
Dark Frigate, 159
Darwin, Charles, 77
Date line, 3, 140
Daugherty, James, 159
d'Aulaire, Ingri & Edgar, 158
Da Vinci, Leonardo, 77
Davis, Jefferson, 77
Daylight Saving, 3, 7, 8
Days, 2, 3, 9, 10, 199, 227
 holidays, 6-8
 days per month, 10
 of planets, 15
 of worship, 89-90
See also Calendar
Dead Sea, 47, 49
Deafness
 sign language, 163
de Angeli, Marguerite, 159
Dear Mr. Henshaw, 159
Death
 of Christ, 7, 90
 leading causes of in U.S., 44, 228
 death toll in earthquakes, 29
 life expectancies, 51-68
 dates of, 76-81, 128
 religion, 89-90
Death of (King) Arthur, 160
- Death Valley**, 23, 49, 105, 129
Decade, 2
Decay, 37
Decibel, 31, 36, 227
Decimal fractions, 203
Declaration of Independence, 110-111, 7, 122, 124, 143 (time line)
See also Jefferson, Thomas
Decomposers, 37
Decoration Day
See Memorial Day
Deer, 36, 41, 109, 229
Defense, Secretary of, 127
Deficiency symptoms and diseases, 42-43, 230
Definitions, 148
 homophones, 170-172
 of parts of speech, 179-182
Defoe, Daniel, 160
De Gaulle, Charles, 77
Degrees (°)
 circle, 2, 207
 latitude/longitude, 140
 thermometer, 205
 angles, 206, 207
 protractor, 207
DeJong, Meindert, 159
Delaware, 93, 100, 74, 86, 111, 116, 131
Delaware tribe, 109, 100
Delhi, India, 103, 139
Della (waterfall), 47
Democracy, 121
Democratic Party, 125
Democritus, 32
Demosthenes, 77
Denali National Park, 105
Denali Peak
See Mount McKinley
Denim jeans, 83
Denmark, 55, 68, 82, 86, 136, 129
See also Greenland; Andersen, Hans Christian
Densities of population
 of countries, 51-68, 228
 of states, 92-100, 229
 of continents, 49
 of world, 228
Denver, Colorado, 101, 92, 130
Depression, Great, 75, 122
Depth, 46, 228
Derosne, François, 84
Des Moines, Iowa, 94, 131
Deserts, 49, 23, 24, 105
Design, elements of, 196
de Sivrac, Comte Mede, 83
De Soto, Hernando, 77
de Trevino, Elizabeth Borton, 159
Detroit, Michigan, 101, 131
Devonian Period, 26
Dewey Decimal System, 145
Dhaka, Bangladesh, 52, 103, 137
Diabetes, 44
Diagram, 143
Diameter, 207, 13, 14, 15, 16
 of hurricanes, 22
 of atoms (relative), 32
Diamond, 10, 30
Diatoms, 36
Diaz, David, 158
- DiCamillo, Kate**, 159
Dickey's Song, 159
Dickens, Charles, 77
Dickinson, Emily, 77
Dictatorship, 121
Dictionary, 150, 75, 145, 221, 173
See also Johnson, Samuel; Webster, Noah
Diesel, Rudolf, 77, 83
Diet, 41-43
 of native Americans, 108-109
Digestive System, 40, 38, 42
Dili, East Timor, 55, 138
Dillinger, John, 77
Dillon, Leo & Diane, 158
Dinosaurs, 26, 37
Disasters
 weather, 22
 earthquake & volcano, 28-29
Discovery, 82
 of America, 72, 8
See also Exploration
Discovery space shuttle, 18
Discussion, 216
Disney, Walt, 77
Distances, 204-205
 earth's orbit, 12
 in universe, 13, 227
 in solar system, 14-15
 to moon, 16
 on map, 141
 sound of whale, 36
District of Columbia, 100, 103
See also Washington, D.C.
Division, 201
Dix, Dorothea, 77
Djibouti, 55, 135
DNA, 34
Dobry, 159
Dodge, Mary Elizabeth Mapes, 160
Dodoma, Tanzania, 66, 228
Dog, 11, 35, 36, 26
 use by native Americans, 108, 109
Doha, Qatar, 63, 135
Doldrums, 24
Dominica, 55, 23, 132
Dominican Republic, 55
Donkey (symbol), 125
Door in the Wall, 159
Dorian, Marie, 77
See also Iowa Indians
Douglas, Stephen A., 77
Douglass, Frederick, 77
Dover, Delaware, 93, 131
Dragon, 11
Dragonfly, 26
Drake, Sir Francis, 77
Drama, 218
Drinking straws
See Straws, drinking
Drowning, 211
Drummer Hoff, 158
Drums, 195
Dry Tortugas Natl. Park, 105
Dublin, Ireland, 58, 136
du Bois, William Pène, 159
Duck, 35, 36
Due process of law, 117 (Amendment 5)
Duffy and the Devil, 158
- Dushanbe**, Tajikistan, 66, 137
Dutch
See Netherlands
Dutch East Indies
See Indonesia
Dutch Guiana
See Suriname
Duvoisin, Roger, 158
Dwarf planet, 227
See Pluto, Ceres
Dworshak Dam, 88
Dyes, chemical, 83
Dynamite, 83, 31
- e=mc²**, 82
E pluribus unum, 125
Eagle, 35, 125, 208
Earhart, Amelia, 77
Earmuffs, 83
Earnings
 per capita GNP—countries, 51-68
 per capita income—states, 92-100
Earp, Wyatt, 77
Ears, 31
See also Hearing
Earth, 9, 14-15, 74, 82, 227
 escape velocity, 17
 tides and eclipses, 16-17
 atmosphere and climate, 20-24
 geology, 25-30, 230
 maps of, 129-138, 140-142
See also World; Globe
Earthquakes, 25, 29, 227, 230
East China Sea, 47, 137
East Timor, 55, 138
Easter bunny, 7
Easter Sunday, 7
Eastern hemisphere, 140
Eastman, George, 77, 83
Eating
 manners, 214-215
See also Nutrition
Echinodermata, 35
Eckert, J. Presper, 83
Eclipses, 17
Ecology, 37
Ecuador, 55, 28, 134
Eddy, Mary Baker, 77
Edison, Thomas A., 77, 84
Editing, 188, 184, 225
 punctuation, 166-167
 capitalization, 168-169
 spelling, 170-175
Editor, 146, 153
Edmonds, Walter D., 159
Education, Secretary of, 127
Egg Tree, 158
Eggs, 41, 42, 44
 animals which have, 35
 largest, 36
 Easter eggs, 7
Egielski, Richard, 158
Egypt, 55, 68, 70-71, 135
 structures, 86, 88
 numbers, 198
See also Egypt, Ancient
Egypt, Ancient, 70-71, 69, 162, 17
See also Cleopatra; Ptolemy; Ramses II; Tutankhamen
Einstein, Albert, 77, 82

EIRE

Eire
 See Ireland

Eisenhower, Dwight D., 128, 78

El Paso, Texas, 101, 130

El Salvador, 55, 68, 129

Election Day, 8

Electric generator, 84

Electric lights, 84, 69

Electric motor, 84

Electric shock, 211

Electricity & electric energy, 31, 227
 See also Faraday, Michael; Lightning

Electromagnet, 83

Electromagnetic induction, 82

Electronic encyclopedia, 149

Electrons, 32, 82, 227

Electrophones, 195

Elements, chemical, 32-33, 227

Elephant, 36, 37, 40, 125

Elevation
 highest/lowest of continents, 49
 highest/lowest of states, 92-100
 highest/lowest of U.S., 229
 of cities, 101-103
 of mountains, 28, 50
 shown on maps, 142

Elevator, 83

Elk, 105, 108, 229

Elkhorn Ranch, 107

Ellesmere Island, 49, 129

Ellington, Duke, 78

Emberley, Ed, 158

Embroidery, 108

Emerald, 10, 30

Emergency, 155, 210-211

Emerson, Ralph Waldo, 78

Emirates Office Tower, 88

Emperors, 121
 See Caesar, Julius; Caesar, Augustus

Empire State Building, 88

Empires, Ancient
 See Roman Empire; Greece, Ancient;
 Inca Empire; Aztec Empire

Ena Tunnel, 87

Encyclopedia, 149, 145, 224, 225

Endangered species, 37

Energy, 31
 of quasar, 13
 of sun, 14
 fossil fuels, 30
 in food, 41, 44
 $e=mc^2$, 82
 consumed in U.S., 92-99, 229

Energy, Secretary of, 127

Engine, 83
 See also Jet engine

England, 48, 68, 74, 75, 122, 140, 173, 32, 10
 inventors, 82-85
 structures, 86, 87
 See also United Kingdom, Great Britain, British

English language, 162-182, 150, 9

English measurement, 204-205

Enright, Elizabeth, 159

Envelope, how to address, 191

Environment, 37
 See also National Parks

Eocene Epoch, 26

Epicenter, 29

Episcopal Church, 90

Equator, 9, 12, 24, 140, 229

Equatorial Guinea, 55, 135

Equinox, 12
 See Spring, Autumn (first day of)

Equivalents, 202, 204, 205

Eras
 geologic, 26
 of history, 70-75, 228

Ericson, Leif, 72, 78

Ericsson, John, 84

Erie Canal, 86

Erie, Lake, 46, 137

Eris, 227

Eritrea, 55-56, 135, 228

Erosion, 25, 29, 17
 in National Parks, 104-107

Eruption, volcanic, 27, 28

Escape velocity, 17

Eskimos, 108

Esophagus, 40

Estes, Eleanor, 159

Estimation
 distance from lightning, 22
 Fahrenheit/Celsius, 205

Estonia, 56, 68, 136

Ethiopia, 56, 149, 135, 228
 See also Haile Selassie I

Etiquette, 212-215

Etna, Mount, 28

Ets, Marie Hall, 158

Etymology, 150

Euphrates River, 48

Eurasia, 25
 See Europe; Asia

Europe, 17

Europe, 47-50, 68, 90, 140, 18, 164
 countries of, 51-68
 history, 71-75
 map of, 136, 48

European Community, 68

European Union, 230

Evaporation, 20, 21, 33

Everglades National Park, 105

Evolution
 See Darwin, Charles

Executive branch of government, 127
 in Constitution, 112-120,
 especially 114-115 (Article 2),
 117-118 (Amendment 12), 119
 (Amendments 20, 22), 120
 (Amendment 25)

Exercise, 41, 44

Exploration, 72-75
 explorers, 76-81

Explorer I satellite, 18

Explosives, invention of
 See Dynamite; Gunpowder

Extinct, 37, 25

Eyeglasses, 70, 83

Eyes, 42

Eyre, Lake, 49, 138

Fables, 156
 See also Aesop

Fables (book), 158

Facsimile, 121
 See also Mussolini, Benito

Factors chart, 202

Fahrenheit, Gabriel D., 78, 85
 See also Fahrenheit scale

Fahrenheit scale, 205, 85

Fairy Tales, 160

Fairy Tales, 156
 See Andersen, Hans Christian;
 Grimm's Fairy Tales

Fall (season)
 See Autumn

Falling bodies, law of, 82

Falling stars, 14

Family Circle, 154

Famine, 75

Famous people, 76-81, 82-85, 122-123, 128

Far East, 68, 122
 See also individual countries; Polo, Marco

Faraday, Michael, 78, 82

Farley, Walter, 160

Farnsworth, Philo, 85

Father's Day, 7

Fats, 41

Faulting (geology), 28, 29

FBI, 165
 See Hoover, J. Edgar

Feathers, 35, 109

Fermi, Enrico, 78, 84

Ferns, 26

Ferris, George W. G., Jr., 83

Ferris wheel, 83

Fertilization of soil, 37

Fiction, 145, 156-160

Field, Rachel, 159

Fields, W. C., 78

Fifth Amendment, 117 (Amend. 5)

Fiji, 56, 68, 138

Fillmore, Millard, 128, 78

Finders Keepers, 158

Finger, Charles, 159

Fink, Mike, 78

Finland, 56, 136

Fire, 18

Fireworks, 7, 31

First Aid, 210-211

First Amendment, 117 (Amend. 1)

Fish, 35, 36, 26, 41, 42, 46, 108

Five Classics, 89

Flag Day, 7

Flag, U.S., 124, 7
 See also Ross, Betsy

Fleischman, Paul, 159

Fleischman, Sid, 159

Fleming, Sir Alexander, 82

Florida, 93, 100, 102, 18, 74, 137
 National Parks, 104, 105
 See also Ponce de León, Juan

Florida panther, 37

Flowers, 34, 10, 26
 of holidays, 6-8
 state flowers, 92-100

Fluorine, 32

Flute, 195

Flying shuttle
 See Shuttle, flying

Folding of earth, 28, 29, 30

Folgefonn Tunnel, 87

Folic acid, 42

FRENCH

Folklore
 Ground Hog Day, 6
 folk literature, 156

Food, 41-44, 31, 34, 37, 38, 39, 40, 83
 of native American tribes, 108-109, 229
 holiday, 7, 8
 cooking at high altitudes, 33
 products of Connecticut, 142

Food pyramid (food chain), 37

Fool of the World and the Flying Ship, 158

Forbes, Esther, 159

Ford, Gerald R., 128, 78

Ford, Henry, 78

Foreign languages, 9, 162, 164
 languages of countries, 51-68

Forests, 26
 in National Parks, 104-107

Formosa
 See Taiwan

Formula
 photosynthesis, 34
 mathematical, 204-205, 207

Fort Jefferson, 105

Fort Peck Dam, 88

Fort Worth, Texas, 101, 130

Forten, James, 78

Fossil fuels, 30

Fossils, 25, 26, 30
 in National Parks, 104, 105

Foster, Stephen, 78

Foucault, Jean, 84

Founding fathers
 See Declaration of Independence;
 Constitution, U.S.

Four Books, 89

Fourth of July, 124, 110
 See also Independence Day

Fowl, 11, 35
 See also Chicken; Turkey; Duck;
 Goose

Fox, 36

Fox, Paula, 159

Fractions, 202-203, 141
 in music, 195

France, 56, 47, 48, 68, 124, 82-85, 87, 136
 history of, 74-75
 See also French language; French Revolution; Napoleon Bonaparte

Franco, Francisco, 78

Frank, Anne, 78, 160

Frankfort, Kentucky, 94, 137

Franklin, Benjamin, 78, 83, 84, 111, 116, 122, 151, 208

Free enterprise system, 121

Freedman, Russell, 159

Freetown, Sierra Leone, 64, 135

Freezing, 33, 21, 205

Fréjus Tunnel, 87

French language, 9
 origins of state names, 93-100

French Revolution, 75

French Somaliland
 See Djibouti

French Sudan
 See Mali

French Territory of the Afars & Issas
 See Djibouti

FRESNO

Fresno, California, 101, 130
Freud, Sigmund, 78
Friedan, Betty, 78
Friendly letter, 189-190
Frigg, 9
Frisbee, 83
Froehlich, John, 85
Frog, 35, 26
Frog Went A-Courtin', 158
From the Mixed-Up Files of Mrs. Basil E. Frankweiler, 159
Frost, Robert, 78
Fruit, 41, 42, 43, 108, 109
Fuel, 30
Fuji, Mount (Fujiyama), 28
Fulton, Robert, 78, 82
Fungi, 227
Funny Little Woman, 158
Fusion, 14
See also Nuclear energy

Gabon, 56, 135
Gaborone, Botswana, 52, 135
Gagarin, Yuri A., 18, 78
Gagnan, Émile, 85
Galarza, Ernesto, 78
Galaxy, 13, 227
Galileo, 78, 82, 17
Gall, 78
See also Sioux Indians
Gall bladder, 40
Gambia, 56, 135
Gamio, Manuel, 78
Gammell, Stephen, 158
Gandhi, Indira, 78
Gandhi, Mohandas, 78
Ganges River, 48, 137
Ganymede, 17
Garfield, James A., 128, 78
Garnet, 10
Garrison Dam, 88
Gas, 33, 20, 227
 in space, 13, 14, 15
 in volcano, 27
See also Gas, natural; Gasoline
Gas, Natural, 30, 31
Gasoline, 31
See also Engine
Gastropods, 26
Gates of the Arctic National Park, 105
Gathering of Days: A New England Girl's Journal, 159
Gatling, Richard Jordan, 84
Gauguin, Paul, 78
Gaulle, Charles de
See De Gaulle, Charles
Gautama, Siddhartha, 78, 89
Gavarnie Falls, 47
Gay Nineties, 75
Gay-Neck, the Story of a Pigeon, 159
Geese, 35, 36
Gehrig, Lou, 78
Geiger counter, 84
Geiger, Hans, 84
Gemstones, 10, 30
General Sherman tree, 36
Generation (time), 69
Generator, electric, 84

Genes, 34
Genghis Khan, 73, 78
Geography, 46-68
 library classification, 145
Geology, 25-30, 230
 in National Parks, 104-107
Geometry, 206-207, 198
George, David Lloyd
See Lloyd George, David
George, Jean Craighead, 159, 160
George Washington Bridge, 86
Georgetown, Guyana, 57, 134
Georgia (state), 93, 100, 101, 74, 111, 116, 128, 137
Georgia, Republic of, 56, 68, 88, 137
Gerhardt, Charles, 83
German language, 9
Germany, 56, 69, 82-85, 122, 136, 228
Geronimo, 78
See also Apache Indians
Gerstein, Mordicai, 158
Gestation periods of animals, 36
Gettysburg Address, 123
Geysers, 107
Ghana, 56, 135
Giant panda, 37
Gilbert Islands
See Kiribati
Ginger Pye, 159
Giraffe, 36
Girl Scouts
See Low, Juliette Gordon
Girl Who Loved Wild Horses, 158
Giver, The, 159
Giza, Pyramids of, 70
Glacier, 29
 in National Parks, 105-107
See also Ice ages
Glacier Bay National Park, 105
Glacier National Park, 105
Gladius, 10
Glen Canyon Dam, 88
Glenn, John, Jr., 18, 78
Glidden, Joseph, 83
Glider, 84
Globe, 140
Glorious Flight, 158
Glossary in book, 148
Goat, 36
Gobi Desert, 49, 137
Goble, Paul, 158
Goddard, Robert, 78, 85
God, 168
Gods and goddesses
See Religion; Roman gods; Norse gods
Godwin Austen (K-2), 50
Goiter, 43
Gold, 30, 32, 33, 153
Gold Coast
See Ghana
Gold rush, 75, 48, 50
Golden Gate Bridge, 86, 87
Goldman, Sylvan N., 85
Golem, 158
Goliath beetle, 36
Gong, 195
Gonzales, Rodolfo (Corky), 78
Good Friday, 7
Good Housekeeping, 154

Goodyear, Charles, 85
Googol, 199
G.O.P., 125
Gorbachev, Mikhail S., 78
Gorilla, 37
Government, forms of, 121
See also Confucianism
Government, U.S., 126-127, 121
 Declaration of Independence, 110-111
 Constitution, 112-120
 listings in phone book, 155
See also Election Day
Goya, Francisco, 78
Grahame, Kenneth, 160
Gram, 204-205
Grammar, 179-182
Gran Sasso Tunnel, 87
Grand Canal, 86
Grand Canyon, 29, 48, 105
Grand Canyon National Park, 105
Grand Coulee Dam, 88
Grand Dixence Dam, 88
Grandfather's Journey, 158
Grand Teton National Park, 105
Granite, 30
Grant, Ulysses S., 128, 78, 208
Grape Nuts cereal, 83
Graphic aids, 143
Graphite, 30
Graphs, 143
Graptolites, 26
Gravity, 13, 82
 effect on tides, 16
 escape from, 17
See also Newton, Sir Isaac
Gray, Elizabeth Janet, 159
Great Basin, 108
Great Basin National Park, 105
Great Bear Lake, 46, 129
Great Britain (island), 49, 47, 48, 68, 110
See also United Kingdom; England
Great Depression, 75, 122
Great Lakes, 48, 109, 222
 on map, 129, 137
See Lakes Superior, Michigan, Huron, Erie, Ontario
Great Salt Lake, 46, 129, 130
Great Sand Dunes National Park, 105
Great Seal of the U.S., 125
Great Slave Lake, 46, 129
Great Smoky Mountains National Park, 105
Great Wall of China, 71
Greaves, Captain, 78
Greco, El, 78
Greece, 56, 47, 68, 136
See also Greece, Ancient; Greek language
Greece, Ancient, 32, 71, 17
Greek language, 162
 alphabet, 164
 word roots, prefixes, suffixes, 176-178
Greeley, Horace, 122, 78
Greenland, 49, 108, 129
Greenwich, England, 140, 3
Greenwood, Chester, 83

HANDFORTH

Gregorian Calendar, 10-11, 70
See also Pope Gregory XIII
Grenada, 57, 132, 134
Grey King, 159
Grimm's Fairy Tales, 160
Grissom, Virgil I., 18
Gros Ventre tribe, 109
Gross domestic product (GDP), 228
Ground Hog Day, 6
Groundwater, 21
Group names of animals, 36
Growth, 41-43
Guadalupe Mountains National Park, 105
Guadeloupe, 23
Guam, 100
Guatemala, 57, 68, 129
Guatemala City, Guatemala, 57, 129
Gudvanga Tunnel, 87
Guiana, British
See Guyana
Guiana, Dutch
See Suriname
Guide words, 149, 150
Guinea, 57, 135
Guinea, Portuguese
See Guinea-Bissau
Guinea, Spanish
See Equatorial Guinea
Guinea-Bissau, 57, 135
Guitar, 195
Gulf of Mexico, 129
Gull, 35
Gum, chewing, 84
Gunnison River, 104
Gunpowder, 70
Guns
 effect on hearing, 227
See also Machine gun; Revolver
Guru, 89
Gutenberg, Johannes, 73, 78, 82, 84
Guthrie, Woody, 78
Guyana, 57, 47, 134
Gyroscope, 84

Habitat, 37
Hader, Berta & Elmer, 158
Hagfish, 35
Hague, The, Netherlands, 228
Haida tribe, 108
Hail, 21, 23
Haile Selassie I, 78
Hair, 35
Haiti, 57, 129
Hajj, 90, 8, 148
Hale, Nathan, 122, 78
Haleakala National Park, 106, 229
Haley, Gail E., 158
Hall, Charles M., 83
Halley, Edmond, 78
See also Halley's Comet
Halley's Comet, 15
See also Halley, Edmond
Halloween, 8
Hamilton, Alexander, 78, 116, 208
Hamilton, Virginia, 159
Hancock, John, 111, 78
Hancock, Thomas, 85
Handel, George Frideric, 78
Handforth, Thomas, 158

HANDWRITING

Handwriting examples, 162
Handy, W. C., 78
Hannibal, 78
Hanoi, Vietnam, 67, 137
Hans Brinker, or, The Silver Skates, 160
Hanukkah, 8
Harare, Zimbabwe, 68, 88, 135
Harding, Warren G., 128, 78
Hare, 11
Hargreaves, James, 85
Harp, 195
Harpichord, 195
Harrisburg, Pennsylvania, 98, 137
Harrison, Benjamin, 128, 78
Harrison, William H., 128, 78
Hartford, Connecticut, 93, 137, 142
Harvest celebration
See Thanksgiving
Harvey, William, 82
Hashemite Kingdom
See Jordan
Havana, Cuba, 54, 129
Hawaii, 93, 100, 101, 23, 28, 50, 106, 132, 130
See also Kamehameha I; Pearl Harbor
Hawaii Volcanoes National Park, 106, 229
Hawes, Charles, 159
Hawk, 35
Hawthorne, 10
Hawthorne, Nathaniel, 78
Haydn, Joseph, 78
Hayes, Rutherford B., 128, 78
Health, 38-44
 first aid, 210-211
Health & Human Services, 127
Hearing, 31, 227
Heart, 39, 38, 43
Heart disease, 44
Heat, 30, 31, 44
See also Temperature
Heating and cooling
 of air by lightning, 22
 of air by sun, 24
 in formation of rocks, 29, 30
 of matter, 33
Heaven, 90
Hebrew, 11, 164, 230
Heidi, 160
Helena, Montana, 96, 130
Helicopter, 84
Helium, 14, 32
Hello, Goodbye Window, 158
Helsinki, Finland, 56, 136
Hemingway, Ernest, 78
Hemispheres, 140
Hemoglobin, 42
Henkes, Kevin, 158
Henry, Marguerite, 159
Henry, Patrick, 122, 78
Herbivores, 35, 37, 26
Hercules moth, 36
Heredity, 82
See also Genes
Hero and the Crown, 159
Hérault, Paul L. T., 83
Herschel, Sir William, 78

Hesse, Karen, 159
Hey, Al, 158
Hickok, Wild Bill, 78
Hieroglyphics, 162
High Aswan Dam, 88
High Coast Bridge, 86
High King, 159
Highest points
See Elevation
Highways on maps, 141, 142
Hillary, Sir Edmund, 78
Himalayas, 50, 28, 137
Hinduism, 89, 70, 48
Hippocrates, 78, 71
Hirohito, 78
Hiroshima, Japan, 75
History, 69-75, 142, 143 (time line), 228
 of holidays, 6-8
 of religions, 89-90
 of words, 150
 library classification, 145
Hitchcock, Alfred, 78
Hitler, Adolf, 121, 78
Hitty, Her First 100 Years, 159
Ho Chi Minh, 78
Hobbit, 157, 160
Hog, 36
Hogan, 109
Hogan, Ben, 78
Hogrogian, Nonny, 138
Holes (book), 159
Holidays, 6-8, 227
Holland
See Netherlands
Holland, John, 85
Holly, 8, 10, 93
Holmes, Oliver Wendell, Jr., 78
Holocene Epoch, 26
Holy Land, 73
See also Israel
Homer, Winslow, 78
Homeland Security, Secretary of, 127
Homework, 221
Homicide, 44
Homophones, 170-172
Honduras, 57, 68, 129, 134
Honduras, British
See Belize
Hong Kong, 88, 137
Honiara, Solomon Islands, 65, 138
Honolulu, Hawaii, 101, 93, 130
Honshu, 49
See also Japan
Hoover Dam, 88
Hoover, Herbert, 128, 78
Hoover, J. Edgar, 78
Hope, Bob, 78
Hopi tribe, 109
Horn, 195
Horse, 36, 11, 26, 109, 229
Horse Latitudes, 24
Hot lines, 155
Hot Springs National Park, 106
Houdini, Harry, 78
Hour, 2, 3, 7, 8
House of Representatives, 126
See also Congress

Housing and Urban Development, Secretary of, 127
Houston, Samuel, 79
Houston, Texas, 101, 130
Howe, Elias, 79, 85, 82
Howe, Julia Ward, 79
Hsuehsan Tunnel, 87
Huang He River, 48, 137
Hudson Bay, 108, 129
Hudson, Henry, 79
Hughes, Charles E., 127
Hughes, Howard, 79
Hughes, Langston, 79
Human beings, 38-40, 34, 35, 36
See also Body
Humber Bridge, 86
Humidity, 20, 23, 24
Hungary, 57, 136
See also Liszt, Franz
Hunger
 infant mortality rates, 51-68, 228
Hunt, Irene, 159
Hunt, Walter, 84
Huron, Lake, 46, 137
Hurricanes, 22
Hussein, Saddam, 79, 121
Huygens, Christiaan, 83
Hyatt, John Wesley, 84
Hydroelectric power, 30, 31
Hydrogen, 14, 32, 33, 34
Hygrometers, 23
Hyman, Trina Scharf, 158

I, Juan de Pareja, 159
Ice ages, 26
See also Glaciers
Ice cream, 41, 43, 44
Iceland, 57, 136, 129
Idaho, 93, 100, 69, 88, 130
Ideograph, 162
Idiophones, 195
Igloo, 108
Igneous rocks, 30
Illinois, 94, 100, 101, 86, 128, 137
See also Chicago
Illinois tribe, 109
Illness, 210-211
See also Disease
Illustrators, 158
Imam, 90
Inca Empire, 73, 74
See also Atahualpa; Pizarro, Francisco
Incandescent light
See Light bulb
Inclined plane, 31
Income
 in countries, 51-68
 in states, 92-100
Income tax, 118 (Amendment 16)
Incredible Journey, 160
Incubation periods, animals
See Gestation periods of animals
Independence Day, 7, 110
See also Fourth of July
Independence, Declaration of
See Declaration of Independence
Index
 map, 141 *continued*

ISRAEL

Index, cont.
 book, 148
 periodicals, 145, 152, 154, 224
 encyclopedia, 149
India, 57, 70, 71, 73, 87, 89, 103, 3, 23, 164, 143 (table), 137
See also Gandhi, Indira; Gandhi, Mohandas
Indian Ocean, 46, 23, 29, 47, 49, 135, 138, 48
Indian python, 37
Indiana, 94, 100, 101, 137
Indianapolis, Indiana, 101, 94, 137
Indians, American
See Native Americans
Indochina
See Cambodia; Laos; Vietnam
Indonesia, 57-58, 68, 28, 47, 90, 103, 143 (table), 133, 137
Industrial Revolution, 75
Infant Mortality Rates, 51-68, 228
Infection, 44
Influenza, 44
Infrared light, 196
Inguri Dam, 88
Injury, 210-211
Inquisition, 73-75
Insectivore, 35
Insects, 35, 36, 26, 108
Instruments, musical, 195
Interior, Secretary of the, 127
Interjections, 182, 150
International date line, 3, 140
Internet, 144, 152
Interview, 219
Intestines, 40, 42
Introductions, 212-213
Inventions and discoveries, 82-85, 70, 229
Inventors, 82-85
Invertebrates, 35, 26
Invincible Louisa, 159
Io, 17
Iodine, 32, 43
Iodized salt, 43
Ionian Sea, 47, 136
Iowa, 94, 100, 128, 137
Iowa tribe, 109
See also Dorion, Marie
Iran, 58, 68, 3, 135, 137
Iraq, 58, 68, 75, 135
Ireland, Northern, 68
See United Kingdom
Ireland, Republic of, 58, 6, 47, 75, 136
Irish Sea, 47, 136
Iron, 32, 33, 25, 43, 227
Iroquois tribe, 109
See also Kentucky; Ohio
Irregular verbs, 180-181
Irrigation, 228
Irving, Washington, 79
Islam, 90, 72, 164
Islamic calendar, 11, 227, 230
Islamabad, Pakistan, 62, 137
Island of the Blue Dolphins, 159
Islands, 49, 50, 68
Isle Royale National Park, 106
Israel, 58, 68, 73, 120, 89, 90, 47, 135
See also Judaism; Meir, Golda

ISTANBUL

Istanbul, Turkey, 135, 136

Italian language, 9

Italy, 58, 28, 47, 87, 136
inventors, 83-84, 17

See also Italian language

It's Like This, Cat, 159

Ivory, 108

Ivory Coast, 54, 135

Iwate Ichinohe Tunnel, 87

Jack-o-Lantern, 8

Jackson, Mississippi, 95, 131

Jackson, Andrew, 128, 79, 125, 208

Jackson, Jesse, 79

Jackson, Stonewall, 79

Jacksonville, Florida, 102, 131

Jacob Have I Loved, 159

Jade, 30

Jaguar, 37

Jakarta, Indonesia, 103, 57

Jamaica, 58, 129

James, Jesse, 79

James, Will, 159

Jamestown, Virginia, 74

See also Smith, John

Janssen, Zacharias, 84

Janus, 6, 11

Japan, 58, 68, 28, 47, 75, 86, 103,
143 (table), 3, 137

structures, 86-87

religions, 89-90

See also Hirohito

Japan, Sea of, 47, 49, 137

Java

See Indonesia

Java Sea, 47, 138

Jay, John, 127

Jeans, denim, 83

Jebel Toubkal, 50

Jefferson City, Missouri, 96, 131

Jefferson, Thomas, 128, 79, 110, 111,
144, 208

Jellyfish, 35, 26

Jenner, Edward, 85

Jerky, 109

Jerusalem, Israel, 58, 135

Jesus Christ, 90, 7, 11, 69, 72, 79

Jet engine, 84, 31

Jewish religion, 70, 11, 164

holidays, 8

See also Judaism; Abraham; Frank,
Anne

Jiangyin Bridge, 86

Jigsaw puzzles, 84

Jihad, 90

Jin Mao Tower, 88

Joan of Arc, 79

John Hancock Center, 88

Johnny Tremain, 159

Johnson, Andrew, 128, 79

Johnson, Lyndon B., 128, 79

Johnson, Samuel, 79, 75

Jones, Casey, 79

Jones, Elizabeth Orton, 158

Jones, John Paul, 122, 79

Jordan, 58, 68, 47, 135

Jordan River, 48

Joseph, Chief, 79

See also Nez Percé Indians

Joseph Had a Little Overcoat, 158

Joshua Tree National Park, 106

Journal writing, 192-193

*Joyful Noise: Poems for Two
Voices*, 159

Judaism, 89

holidays, 8

Hebrew calendar, 11, 230

See also Israel; Abraham; Jewish
religion

Judicial Branch of Government, 127

in Constitution, 112-120, especially
115 (Article 3)

Judson, Whitcomb, 85

Julian Calendar, 10

Julie of the Wolves, 159

Julius Caesar, 71, 10, 11

Jumanji, 158

Juneau, Alaska, 92, 130

Jupiter (planet), 14, 15, 9, 17, 18

Jurassic Period, 26

Just So Stories, 160

Justices of Supreme Court, 127

K-2 (mountain), 50

Kabul, Afghanistan, 51, 137

Kadohata, Cynthia, 159

Kariba Dam, 88

Kaieteur (waterfall), 47

Kalahari Desert, 49, 135

Kamehameha I, 79

Kampala, Uganda, 66, 135

Kampuchea

See Cambodia

Kanchenjunga, 50

Kansa tribe, 109

Kansas, 94, 100, 23, 130

Kansas City, Missouri, 102, 131

Karachi, Pakistan, 103, 137

Karma, 89

Kasner, Edward, 199

Kathmandu, Nepal, 61, 137

Katmai National Park, 106

Katmai Volcano, 28

Kauai, Hawaii, 130

Kay, John, 85

Kayak, 108

Kazakhstan, 58, 68, 137

Keats, Ezra Jack, 158

Keats, John, 79

Keith, Harold V., 159

Keller, Helen, 79

Kellogg, John Harvey, 83

Kelly, Eric P., 159

Kenai Fjords National Park, 106

Kennedy, John F., 128, 79, 122, 208

Kentucky, 94, 100, 106, 128, 131

Kenya, 58, 50, 135

Kepler, Johannes, 79, 82

Key (map & graph), 141, 143

Key, Francis Scott, 124, 79

Key signature, 194

Keyboard

computer, 164

division symbol on, 198

musical, 195

Khan, Genghis, 73, 78

Khan, Kublai, 79

Khartoum, Sudan, 65, 135

Khmer Republic

See Cambodia

Kickapoo tribe, 109

Kidd, William, 79

Kidnapped, 160

Kidney, 42, 43

Kidney disease, 44

Kiev, Ukraine, 67, 136

Kigali, Rwanda, 63, 135

Kilauaea, 28

Kilimanjaro, 49, 50, 135

Kinetic energy, 31

King Arthur, Death of, 160

King of the Wind, 159

King, Martin Luther, Jr., 79, 123, 6

Kings, 121

Kings Canyon National Park, 106

Kingston, Jamaica, 58, 129

Kingstown, St. Vincent & the

Grenadines, 63

Kinshasa, Dem. Rep. of the Congo,
54, 135

Kiowa tribe, 109

Kipling, Rudyard, 160

Kira-Kira, 159

Kiribati, 58-59, 68, 132-3, 138

Kirkpatrick, Jeane, 79

Kishinév, Moldova,

See Chisinau

Kitten's First Full Moon, 158

Klamath tribe, 108

Klondike Gold Rush, 48, 75

Kobuk Valley National Park, 106

Kolkata, India, 103, 139

Konigsburg, Elaine, 159

Koran, 90

Korea, North, 59, 68, 88, 47, 137

Korea, South, 59, 68, 47, 137

Korean War, 75

Koror, Palau, 62, 138

Krakatau, 28

Krumgold, Joseph, 159

Kuala Lumpur, Malaysia, 60, 137

Kublai Khan, 79

Kutenai tribe, 108

Kuwait, 59, 68, 75, 135

Kwakiutl tribe, 108

Kwanzaa, 8

Kyrgyzstan, 59, 68, 137

La Paz, Bolivia, 52, 134

Labastida, Aurora, 158

Labor Day, 7

Labor, Secretary of, 127

Labor Unions, 7

See Walesa, Lech; Chavez, Cesar

Ladies' Home Journal, 154

Laënnec, René, 85

Laerdal Tunnel, 87

Lafayette, Marquis de, 79

Laffite, Jean, 79

Lake Clark National Park, 106

Lake Pontchartrain Causeway, 229

Lakes, 46, 104-107, 29

Lamb, Charles & Mary, 160

Lampreys, 35, 26

Landers, Ann, 79

Langen, Eugen, 83

Languages

of countries, 51-68, 228

library classification, 145

See English; Foreign languages

Lansing, Michigan, 95, 131

Laos, 59, 68, 137

Laozi, 79

Lapis lazuli, 10

La Salle, Sieur de, 79

Laser, 84

Lassen Peak, 28, 106

Lassen Volcanic Natl. Park, 106, 28

Latham, Jean Lee, 159

Lathrop, Dorothy P., 158

Latin, 2, 9, 11

word roots, prefixes, suffixes, 176-
178

Latitude, 140, 2, 229, 230

of Arctic Circle, Tropics, etc., 12

of countries, 51-68

of cities, 101-103

Latvia, 59, 68, 136

Lava, 27, 28, 105

Law, 121

Constitutional law, 112-120

library classification, 145

Lawn mower, 84

Lawson, Robert, 158, 159

Layers of atmosphere, 20

Lazarus, Emma, 125

Lead, 32

League, 204

Leap seconds, 227

Leap year, 6, 10

Leaves, 34, 31

Lebanon, 59, 68, 135

Lee, Robert E., 79

Leeuwenhoek, Anton van, 79, 82

Legal holiday, 6, 7, 8

Legend of map, 141

Legislative Branch of Government,
126

See also Congress

Lehman Caves, 105

L'Engle, Madeleine, 159

Length

of tunnels, 87

of canals & bridges, 86, 229

of lightning bolt, 22

measurement of, 204-205

Legumes, 41

Lenin, V. I., 79

Lenormand, Sebastian, 84

Lenski, Lois, 159

Lent, Blair, 158

Leonov, Alexei A., 18

Leopard, 37

Lesotho, 59, 135

Letter writing, 189-191

to the editor, 153

abbreviations, 165, 100

Letters of alphabet, 162-164, 229

Lever, 31

Lewis and Clark, 75, 77, 79

LIBRARY OF CONGRESS

Library of Congress, 144, 230
 Library of Congress classification system, 145
 Library research report, 224-225
 Libreville, Gabon, 56, 135
 Libya, 59, 23, 120, 135
 Lichens, 29, 227
 Liechtenstein, 59, 136 (*next to Switzerland*)
 Life Expectancy
 in countries, 51-68, 228
 in world, 228
 Life Savers candy, 84
 Light, 13, 22, 31, 34, 82, 196, 227
 Light bulb, 84
 Light year, 13
 Lightning, 22, 84, 227
 Lightning rod, 84
 Lignite, 30
 Lilongwe, Malawi, 60, 135
 Lily, 7, 10
 Lima, Peru, 63, 134
 Limestone, 30, 104-107
 Lincoln, Nebraska, 96, 130
Lincoln: A Photobiography, 159
 Lincoln, Abraham, 128, 6, 79, 123, 125, 208
 books about, 158, 159
 See also Booth, John Wilkes
 Lincoln Memorial, 123, 208
 Lincoln's Birthday, 6
 Lindbergh, Charles, 79
 Line graph, 143
 Linear measure
 See Length
 Lion, 35, 36
Lion, Witch & the Wardrobe, 157, 160
 Lippershey, Hans, 85
 Liquid, 33
 Liquid measure
 See Volume
 Liquor
 See Alcohol
 Lisbon, Portugal, 63, 136
 Lister, Sir Joseph, 79, 83
 Liszt, Franz, 79
 Liter, 204-205
 Literature, 156-160
 library classification, 145
 Lithuania, 60, 68, 136
Little House books, 157, 160
Little House, The, 158
Little House in the Big Woods, 160, 157
Little House on the Prairie, 160, 157
Little Island, The, 158
 Little Rock, Arkansas, 92, 131
Little Women, 160
 Liver, 40, 42, 43
 Liver disease, 44
 Livingstone, David, 79
 Lizard, 35, 26
 Ljubljana, Slovenia, 64, 136
 Lloyd George, David, 79
 Lobel, Arnold, 158
 Lobsters, 35, 142
 Locomotive, steam, 84
 Lofting, Hugh, 159
 Logical thinking, 40
 See also Mathematics; Science
 Lomé, Togo, 66, 135
Lon Po Po, 158
 London, England (United Kingdom), 48, 67, 136
 London, Jack, 160
 Long Beach, California, 102, 130
 Long, Crawford W., 83
 Long distance telephone, 155
 Longfellow, Henry Wadsworth, 79
 Longhouses, 109
 Longitude, 140, 2, 3, 229, 230
 of countries, 51-68
 of cities, 101-103
 Loom, power, 84
 Loon, 35, 95
Lord of the Rings, 157
 Los Angeles, California, 102, 103, 130
 Los Vegas, Nevada, 102, 130
 Loud, John H., 84
 Loudness, 31, 36
 Louisiana, 94, 100, 75, 102, 131, 229
 Louisiana Purchase, 75
 Love, goddesses of, 9
 Lovell, James A., Jr., 18
 Low Countries, 68
 See also individual countries
 Low, Juliette Gordon, 79
 Lower Yellowstone Falls, 47
 Lowest points
 See Elevation
 Lowry, Lois, 159
 Luanda, Angola, 51, 135
 Lumbee tribe, 109
 Luna 2, 17, 18
 Luna 3, 17
 Lunar eclipse, 17
 Lung disease, 44
 Lungfish, 26
 Lungs, 39
 Lupu Bridge, 86, 229
 Lusaka, Zambia, 67, 135
 Luther, Martin, 79, 74, 90
 Lutheran Church, 90
 Luxembourg, 60, 68, 136 (*north of France*)
 Lyrics, 195
 to Star-Spangled Banner, 124
M. C. Higgins, the Great, 159
 MacArthur, Douglas, 79, 122
 Macaulay, David, 158
 Macedonia, 60, 68, 228, 136
 See Alexander the Great
 Machine, 31
 inventions of, 82-85
 Machine gun, 84
 MacKenzie River, 48, 129
 Mackinac Bridge, 86
 MacLachlan, Patricia, 159
 Madagascar, 60, 49, 135
Madeline's Rescue, 158
 Madison, Wisconsin, 69, 99, 137
 Madrid, James, 128, 79, 116, 208
 Madrid, Spain, 65, 136
 Magazines, 225, 154, 145
 See also Periodicals

Magellan, Ferdinand, 74, 79
 Magellan, Strait of, 134
 Magellanic Clouds, 227
 Magma, 27, 30
 Magnesium, 32, 43
 Magnet
 See Electromagnet; Compass
 Mahican tribe, 109
 Maidu tribe, 108
 Mail
 See Letter writing
 Maiman, Theodore, 84
 Maine, 94-95, 100, 104, 131
 Majuro, Marshall Islands, 60, 138
Make Way for Ducklings, 158
 Malabo, Equatorial Guinea, 55, 135
 Malawi, 60, 135
 Malaya
 See Malaysia
 Malaysia, 60, 68, 88, 137
 Maldives, 60, 137
 Malé, Maldives, 60, 137
 Mali, 60, 135
 Malory, Sir Thomas, 160
 Malta, 60, 136
 Mammals, 35, 36, 26
 endangered, 37
 Mammoth Cave National Park, 106
 Mammoths, 26
Man Who Walked Between the Towers, 158
 Managua, Nicaragua, 62, 129, 134
 Manama, Bahrain, 52, 135
 Manchester Ship Canal, 86
 Mandan tribe, 109
 Mandela, Nelson, 79
 Mangane, 32
Maniac Magee, 159
 Manila, Philippines, 63, 137, 138
 Mann, Horace, 79
 Manners, 212-215
 Mantle of earth, 25, 27
 Manual alphabet, 163
 Manuscript handwriting, 162
Many Moons, 158
 Mao Tse-tung, 79
 Maps, 141, 142, 140, 129-138
 time zones map, 3
 in research report, 225
 Maputo, Mozambique, 61, 135
 Marble, 30
 Marconi, Guglielmo, 79, 84
 Mardalsfossen (waterfall), 47
 Margarine, 42, 43
 Mariana Trench, 46, 138
 Marias, 16
 Marmara Sea, 47, 136
 Marriage, goddess of, 11
 Mars, 9, 14, 15, 11
 Marshall, Thurgood, 79
 Marshall Islands, 60, 68, 138
 Martin Luther King Day, 6
 Martinique, 28
 Marx, Karl, 79
Mary Poppins, 160
 Maryland, 95, 100, 101, 74, 86, 111, 116, 124, 137
 Maseru, Lesotho, 59, 135
 Mass movement, 29
 Massachusetts, 95, 100, 101, 69, 74, 111, 116, 128, 137
 Massasoit, 79
 Match, 84
Matchlock Gun, The, 159
 Mathematicians
 See Kasner, Edward
 Mathematics, 198-208
 Matter, 32-33, 227
 $e=mc^2$, 82
 Matterhorn, 50
 Mauchly, John, 83
 Maui, Hawaii, 23, 106, 130
 Mauna Kea, 50
 Mauna Loa, 28
 Mauritania, 60, 135
 Mauritius, 61, 135
 Maximilian, 79
May I Bring a Friend, 158
 Mayan civilization, 72
 Mayflower, 74
 Mbabane, Swaziland, 65, 135
 McAuliffe, Christa, 18
 McCloskey, Robert, 158
 McCormick, Cyrus Hall, 79, 84
 McCully, Emily Arnold, 158
 McDermott, Gerald, 158
 McKinley, Robin, 159
 McKinley, William, 128, 79, 208
 Meal
 planning, 41
 manners, 214-215
 Measurement, 204-205, 13
 Meat, 41, 42, 43
 meat-eating animals, 35
 Mecca, Saudi Arabia, 11, 90, 135
 Medicine, 71
 inventions & discoveries, 82-85
 library classification, 145
 See also Health; Hippocrates
 Medina, Saudi Arabia, 11, 135
 Mediterranean Sea, 47, 28, 135, 136
Mei Li, 158
 Meigs, Cornelia, 159
 Meir, Golda, 79
 Mekong River, 48, 137
 Melanesia, 68
 Melcher, Frederic G., 158
 Melting Point, 33
 Membranophone, 195
 Memorial Day, 6, 7
 Memory helps, 222, 7, 10, 169, 173, 220
 Memphis, Tennessee, 102, 137
 Mendel, Gregor, 79, 82
 Mendelssohn, Felix, 79
 Menominee tribe, 109
 Menorah, 89
 Mercator projection, 141
 Mercury (element), 32, 33, 23, 85
 Mercury (planet), 9, 15
 Meridians, 3, 140
 See also Longitude
Merry Adventures of Robin Hood, 160
 Mesa, Arizona, 102, 130
 Mesa Verde National Park, 106
 Mesosphere, 20
 Mesozoic era, 26
 Mestral, George de, 85

MESTRAL

METAMORPHIC

Metamorphic rocks, 30
Metamorphosis, 35
Meteorites, 14
Meteoroids, 14, 16
Meteors, 14, 20
Meter, 204-205
Methodist Church, 90
Methuselah (tree), 36
Metric measurement, 204-205
Mexican War, 75
Mexico, 61, 28, 48, 50, 68, 73, 74, 103, 129
See also Aztec Empire
Mexico City, Mexico, 103, 61, 129
Miami, Florida, 102, 131
Miami tribe, 109
Mica, 30
Michelangelo Buonarreti, 79
Michigan, 95, 100, 101, 106, 86, 131
Michigan, Lake, 46, 131
Micmac tribe, 108
Microfiche, 144, 152
Microfilm, 144, 152
Micronesia, Federated States of, 61, 68, 138
Microscope, 84, 34
See also Leeuwenhoek, Anton van; Cell
Middle Ages, 72-73
Middle East, 68, 47, 48, 90
 Arabic alphabet, 164
See also individual countries
Midnight sun, 12
Midwife's Apprentice, 159
Migration of tern (bird), 36
Mile, 204, 205, 229
Milhou, Katherine, 158
Military
 24-hour clock, 2
 Intl. Phonetic Alphabet, 163
See also Memorial Day; Veterans Day
Milk, 41, 43, 44
See also Dairy products
Milky Way, 13, 14
Millennium, 2
Milne, A. A., 157, 160
Milton, John, 79
Milwaukee, Wisconsin, 102, 131
Minami Bisan-seto Bridge, 86
Minerals, 25, 30, 34, 41, 43, 44, 227
Ministers, 90
Minneapolis, Minnesota, 102, 131
Minnesota, 95, 100, 102, 107, 131
Minsheng Bank Building, 88
Minsk, Belarus, 52, 136
Minute, 2, 199
Miocene Epoch, 26
Miracles on Maple Hill, 159
Mirette on the High Wire, 158
Miss Hickory, 159
Missionaries, 164
Missing May, 159
Mississippi, 95, 100, 131
Mississippi River, 48, 82, 109, 129
See also De Soto, Hernando; La Salle, Sieur de
Mississippian Period, 26
Missouri, 96, 100, 102, 103, 128, 131

Missouri River, 48, 129
Mixtures, 33
Mnemonics, 173, 169, 222, 7, 10
Modoc Indians
See Captain Jack
Mogadishu, Somalia, 65, 135
Mohawk tribe, 109
See also Brant, Joseph
Mohegan tribe, 109
Mohs Hardness Scale, 30
Molasses, 43
Mold, 37, 227
Moldova, 61, 68, 136
Molecules, 33
Mollusca (mollusks), 35, 26
Molybdenum, 32
Monaco, 68, 136 (*between France and Italy*)
Monarchy, 121
Monet, Claude, 79
Money, 208, 124, 203
 currencies, per capita GNP of countries, 51-68
 per capita income of states, 92-100
See also Currencies
Mongolia, 61, 68, 137
See also Genghis Khan
Monk, 89
Monkey, 11, 26
Monotheism, 89
Monroe, James, 128, 79
Monroe, Marilyn, 79
Monrovia, Liberia, 59, 135
Monsoon rains, 24
Mont Blanc, 50
Mont Pelée, 28
Montagnais tribe, 108
Montana, 96, 100, 88, 105, 130
Montenegro, 61, 68, 136, 228
Montessori, Maria, 79
Montevideo, Uruguay, 67, 134
Montezuma II, 79
See also Aztec Empire
Montgolfier, Jacques, 79, 83
Montgolfier, Joseph, 79, 83
Montgomery, Alabama, 92, 137
Montgomery, L. M., 160
Month, 2, 10-11, 227
 holidays, 6-8
See also Calendar
Monticello, 208
Montpelier, Vermont, 99, 131
Montresor, Beni, 158
Moog, Robert A., 85
Moon, 16-17, 2, 9, 18, 69, 75
 Easter holiday based on, 7
 calendars based on, 11
 in solar system, 14-15, 17
Moose, 108
Mordvinoff, Nicolas, 158
Mormon Church
See Smith, Joseph; Young, Brigham
Morning-Glory, 10
Morocco, 61, 135
Moroni, Comoros, 54, 135
Morrison, Walter F., 83
Morse code, 163
Morse, Samuel F. B., 79, 85, 163, 229
Mortality
See Death

Moscow, Russia, 63, 136, 137
Moses, Grandma, 80
Mosques, 90
Moth, 36
Mother Goose, Tales of, 160
Mother's Day, 7
Motion, 31
Motion pictures, 84
Motor, 84
Motor vehicle tunnels, 87
Motorcycle, 84
Mott, Lucretia, 80
Motto
 of states, 92-100
 of United States, 124
 on Great Seal, 125
Mont Blanc Tunnel, 87
Mount Cook, 50
Mount Elbert, 50
Mount Elbrus, 49, 50
Mount Etna, 28
Mount Everest, 49, 50, 137
Mount Fuji, 28
Mount Kenya, 50
Mount Kilimanjaro, 49, 50
Mount Kosciuszko, 49, 50, 138
Mount Logan, 50
Mount McKinley, 49, 50, 105, 129
Mount McKinley National Park
See Denali National Park
Mount Mitchell, 50
Mount Rainier, 50, 106, 23
Mount Rainier National Park, 106
Mount St. Helens, 28
Mount Washington, 227
Mount Whitney, 107
Mountain ranges, 50
Mountains, 50, 24, 27, 28, 29, 30, 228, 129, 135-138
 in National Parks, 104-107
See also Hillary, Sir Edmund
Mouth, 40, 42
Movable type, 73, 82
See also Printing
Movies
See Motion Pictures
Mozambique, 61, 135
Mozart, Wolfgang Amadeus, 80
Mrs. Frisby & the Rats of Nimh, 159
Muhammad, 90, 11, 72, 80
Muir, John, 80
Mukerji, Dhan, 159
Multiples, 202
Multiplication, 201
Multnomah Falls, 47, 224
Mumbai, India, 103, 137
Munsee tribe, 109
Muscat, Oman, 62, 135
Muscles, 38, 41-43
Mushrooms, 227
Music, 194-195, 31, 70
 state songs, 92-100
 musicians/composers, 76-81, 124
Music, cont.
 library classification, 145
See also Treble clef
Muslim, 73, 90, 8, 11
See Islam
Mussolini, Benito, 121, 80

NEW TESTAMENT

My Friend Rabbit, 158
My Side of the Mountain, 160
Myanmar, 61, 68, 137
Nader, Ralph, 80
Nairobi, Kenya, 58, 135
Naismith, James, 83
Names, origin of
 days, 9
 months, 11
 state, 92-100
 animals (female, group, etc.), 36
Namibia, 61, 135
Napoleon Bonaparte, 75, 80, 87
See also Wellington, Duke of
Narcissus, 10
Narraganset tribe, 109
Nash, Ogden, 80
Nashville, Tennessee, 102, 98, 137
Naskapi tribe, 108
Nassau, Bahamas, 52, 129
Natchez tribe, 109
Nation, Carry, 80
National anthem, 124
See also Key, Francis Scott
National Geographic, 154
National Parks, 104-107, 229, 230
National Park of American Samoa, 104
Native Americans (Indians), 108-109, 8, 72, 73, 107, 229
 origins of state names, 92-100
Natural Gas, 30, 31
Nauru, 68, 138
Nautical mile, 204, 229
Navajo tribe, 109
Naylor, Phyllis Reynolds, 159
Naypyidaw, Myanmar, 61
N'Djamena, Chad, 53, 135
Neap tides, 16
Nebraska, 96, 100, 102, 128, 130
Nebulae, 13, 227
Negros
See African Americans; Slavery; King, Martin Luther
Neon, 32
Nepal, 61, 137
Neptune, 15, 18
Nero, 80
Nerves, 40, 42, 43
Nervous System, 40
Ness, Evaline, 158
Netherlands, 62, 68, 86, 88, 136
(Neth.), 228
 inventors, 82-85
Neutrons, 32, 82
Nevada, 96, 100, 88, 102, 105, 130
Neville, Emily, 159
New Colossus, 125
New Delhi, India, 57, 137
New Guinea, 49, 138
See also Papua New Guinea
New Hampshire, 96, 100, 74, 111, 116, 128, 131 (*N.H.*), 227
New Jersey, 96, 100, 74, 86, 111, 116, 128, 131
New Mexico, 96-97, 100, 101, 74, 104, 109, 130
New Orleans, Louisiana, 102, 137
New Testament, 90

NEW YEAR'S DAY

New Year's Day, 6
New York, 97, 100, 102, 111, 116, 47, 74, 86, 88, 7, 128, 131
See also New York City
New York City, 102, 103, 88, 124, 6, 131
See also New York
New York Times Index, 152
New Zealand, 62, 47, 50, 120, 133, 138
See also Hillary, Sir Edmund
Newbery Books, 158, 159
Newbery, John, 158
Newspapers, 152-153, 145
See also Press, freedom of
Newton, Sir Isaac, 80, 82, 17
Nez Percé tribe, 108
See also Joseph, Chief
Niacin, 42
Niagara Falls, 47
Niamey, Niger, 62, 135
Nicaragua, 62, 68, 129, 134
Nicholas II, 80
Nickel
 element, 32, 33, 25, 227
 coin, 208
Nicknames of states, 92-100, 229
Nicosia, Cyprus, 54
Niger, 62, 135
Niger River, 48, 135
Nigeria, 62, 143 (table), 135
Night, 9
Night blindness, 42
Nightingale, Florence, 80
Nile River, 48, 70, 135
Nimbus, 20
Nine Days to Christmas, 158
Nirvana, 89
Nissen, George, 85
Nitrogen, 20, 32, 33
Nixon, Richard M., 128, 80
Noah's Ark, 50
Noah's Ark (book), 158
Nobel, Alfred, 80, 83
Nobel peace prize, 123
See also Nobel, Alfred
Noble Eightfold Path, 89
Noon, 2, 3
Nootka tribe, 108
Nonfiction, 145, 156
Norse gods, 9
North America, 48, 25, 29, 46, 49, 50, 140
 map, 129, 48
 countries of, 51-68
 history, 69-75
 religions, 89-90
 National Parks, 104-107
 natives of, 108-109
North Carolina, 97, 100, 101, 111, 116, 74, 120, 128, 131
North Cascades National Park, 106
North Dakota, 97, 100, 88, 107, 130
North Pole, 9, 12, 24, 140
North Sea, 47, 136
North Sea Canal, 86
Northeast trade winds, 24
Northern hemisphere, 140, 7, 8, 12
 rotation of winds, 22
See also Northern lights

Northern Ireland, 68
See also United Kingdom
Northern lights, 20
Northern Rhodesia
See Zambia
Northwesterly winds, 24
Norway, 62, 68, 88, 47, 136
Notable people, 76-81, 228-9
 inventors, 82-85
 presidents, 128
Note-taking, 220, 224
Nouakchott, Mauritania, 60, 135
Nouns, 179, 166, 150
 noun-forming suffixes, 178
Nuclear energy, 30, 31
 in stars and sun, 13, 14
 invention of nuclear reactor, 84
See also Atoms
Nucleus/Nuclei
 of atom, 32
 of cell, 34
Nuku'alofa, Tonga, 66
Number the Stars, 159
Numbers, 198-208, 166
 atomic numbers, 32
 Latin words for, 11
Numerals, 198, 163
Nurek Dam, 88
Nutrients, 39, 40, 41-43
 in soil, 37
Nutrition, 41-44, 230
Nuts, 41, 42, 43, 108, 109
Nyasa, Lake, 46, 135
Nyasaland
See Malawi
Nylon, 84

Oahe Tailings Dam, 88
Oahu, Hawaii, 130
Oakland, California, 102, 130
Oakley, Annie, 80
Oatmeal, 42
Oboe, 195
O'Brien, Robert C., 159
Obsidian, 30
Ocean, 46, 16, 21, 22, 48, 49, 228
Oceania, 68
See also individual countries
Octave, 194
Octavian
See Caesar, Augustus
O'Dell, Scott, 159
Officer Buckle & Gloria, 158
Ohio, 97, 100, 101, 105, 128, 131, 141
Oil (petroleum), 30, 31, 75, 191
Oil shale, 30
O'Keefe, Georgia, 80
Okhotsk, Sea of, 47, 137
Oklahoma, 97, 100, 102, 103, 130
Oklahoma City, Oklahoma, 102, 97, 130
Old Faithful geyser, 107
Old Glory, 124
Old Testament, 164
Oligarchy, 121
Oligocene Epoch, 26
Olympia, Washington, 99, 130
Olympic games, 71
Olympic National Park, 107
Om, 89

Omaha, Nebraska, 102, 130
Omaha Indians
See Picotte, Susan La Flesche
Oman, 62, 68, 120, 135
Omnivore, 35
Once a Mouse, 158
One Fine Day, 158
Onion John, 159
Ontario, Canada, 53
Ontario, Lake, 46, 137
Opal, 10, 30
Opera
See Wagner, Richard
Opinions, 153
Oral Reading, 216
Orangutan, 37
Orbit, 15, 12, 18, 227
 in atoms, 32
Ordovician Period, 26
Oregon, 97-98, 100, 102, 47, 105, 130, 229
Organ, musical, 195
Organs of the body, 38-40
Orion, 13
Oroville Dam, 88
Orthodox Church, 90, 73
Osage tribe, 109
Osaka, Japan, 103, 137
Osceola, 80
See also Seminole Indians
Oshimizu Tunnel, 87
Oslo, Norway, 62, 136
Ostrich, 35, 36, 37
Otis, Elisha, 83
Ottawa, Ontario, Canada, 53, 129
Ottawa Indians
See Pontiac
Otto, Nikolaus, 83
Ouachita Mountains, 106
Ouagadougou, Burkina Faso, 53, 135
Out of the Dust, 159
Outboard motor, 84
Outline, 187, 168, 217, 224
Owens, Jesse, 80
Owl, 35
Owl Moon, 158
Ox, 11
Ox-Cart Man, 158
Oxygen, 20, 32, 33, 34, 39, 43
Oysters, 43
Ozone, 20, 82

Pacific Ocean, 46, 3, 22, 25, 49, 68, 107, 108, 132-33, 48
See also Cook, James
Paine, Thomas, 122, 80
Painted Desert, 107
Paiute tribe, 108
Pakistan, 62, 90, 103, 143 (table), 137
Palau, 62, 138
Paleocene Epoch, 26
Paleozoic Era, 26
Palikir, Micronesia, 61, 138
Panama, 62, 68, 86, 134
Panama Canal, 86
See also Canal Zone
Panama City, Panama, 62, 134
Panda, 37
Paper, 72, 84, 70
Papin, Denis, 84

PERCOLATION

Papua New Guinea, 62, 68, 138
Papyrus, 70, 144
Parachute, 84
Paraguay, 62, 134
Parallel, 140, 206
See also Latitude
Paramaribo, Suriname, 65, 134
Parchment, 144
Parenthetical phrases, 167
Paricutin, 28
Paris, France, 48, 56, 87, 136
Park, Linda Sue, 159
Parker, Ely, 80
Parkinson's disease, 44
Parks
See National Parks
Parks, Rosa Lee, 80
Parthenon, 71
Parties, etiquette, 215
Parties, political, 125
Parts of speech, 179-182, 150
Passover, 8
Pasta, 41
Pasteur, Louis, 80
Patent, 82
Paterson, Katherine, 159
Patton, George Smith, Jr., 80
Patuxet Indians
See Squanto
Pawnee tribe, 109
Peace pipe, 109
Peale, Norman Vincent, 80
Peanuts, 42
Peanut butter, 41, 44
Pearl, 10
Pearl Harbor, Hawaii, 75
Peary, Robert, 80
Peat, 30
Peck, Richard, 159
Peking
See Beijing
Pelican, 37, 94
Pellagra, 42
Pemaquid Indians
See Mamoset
Pemmican, 109
Pen, ball-point, 84
Pen pal, 190
Pencil, wooden, 84
Penguin, 35
Penicillin, 82
Penn, William, 80, 98
Pennsylvania, 98, 74, 100, 102, 111, 116, 124, 128, 131
See also Philadelphia: Penn, William
Pennsylvanian Period, 26
Pentagon, 75
People, 168
 notable people, 76-81, 228-9
 inventors, 82-85
People, cont.
 presidents, 128
See also Human beings
Per capita GDP, 51-68, 228
Per capita energy consumption, 92-100, 229
Per capita income, 92-100, 229
Percentiles, 223
Percolation, in soil, 21

PERCUSSION

Percussion instruments, 195
Peregrine falcon, 36
Peridot, 10
Perihelion, 227
Perimeter, 204
Periodic Table of the Elements, 32
Periodicals, 154, 144, 145, 224-225
Perkin, William, 83
Perkins, Lynne Rae, 159
Permian Period, 26
Perpendicular, 206
Perpetual calendar, 4-5
Perrault, Charles, 160
Persia, 73
See also Iran
Persian Gulf, 135
Persian Gulf States
See United Arab Emirates
Persian Gulf War, 75
See also Schwarzkopf, Norman
Peru, 63, 73, 74, 134
See also Atahualpa; Pizarro, Francisco
Pesach, 8
Peter Pan, 160
Peter Rabbit, Tales of, 160
Petersham, Maude & Miska, 158
Petrified Forest National Park, 107, 26
Petroleum, 30, 31, 191
See also Oil
Petronas Towers, 88
Pettus, J., 84
Pharaohs, 70
See also Ramses II; Tutankhamen
Phases of moon, 16
Pheasant, 35
Philadelphia, 102, 110, 112, 124, 137
Philip, King, 80
Philippines, 63, 68, 28, 46, 47, 122, 137, 138
Philosophy, 71
Phnom Penh, Cambodia, 53, 137
Phoenix, Arizona, 102, 92, 130
Phonetic alphabet, 163
Phonetic spelling, 150
Phonograph, 84
Phosphorus, 32, 43
Photography inventions, 83-85
Photosynthesis, 34
Physical map, 142
pi (π), 207, 229
Piano, 84, 195
Picasso, Pablo, 80
Pico de Orizaba, 50
Picotte, Susan La Flesche, 20
Pictograph, 143, 162
Pie graph, 143
Pierce, Franklin, 128, 80
Pierre, South Dakota, 98, 130
Pig, 11, 41
Pigment, 34, 196
Pikes Peak, 50
Pilgrims, 74, 8
See also Samoset; Squanto
Pima tribe, 109
Pin, safety, 84
Pinatubo, 28
Pine tree, bristlecone, 36, 105, 96
Piñon pine, 96, 97, 109
Pinocchio, Adventures of, 160
Pitcher, Molly, 80
Pixii, Hippolyte, 84
Pizarro, Francisco, 74, 80
Place value, 199, 203
Plagiarism, 224
Plague, 72, 73, 69
Plains tribes (native American), 109, 229
Planets, 14-15, 17, 18, 9, 82, 227
Plants, 34, 36-37, 26, 29, 30, 31, 21, 227
 state plants, 92-100
 in National Parks, 104-107
 use by native Americans, 108-109
 plant-eating animals, 35
See also Burbank, Luther
Plasma, 227
Plastic, 84
Plate tectonics, 25
Platinum, 32
Plato, 80
Plays, 218, 156
 library classification, 145
See also Shakespeare, William
Pledge of Allegiance, 124
Pleistocene Epoch, 26
Plimpton, James L., 85
Pliocene Epoch, 26
Pluralization, rules for, 179, 166
Pluto, 14, 15, 227
Plutonium, 32
Plymouth Colony, 8, 74
Pneumatic tire
See Tire, pneumatic
Pneumonia, 44
Pocahontas, 80
See also Powhatan Indians
Podgorica, Montenegro, 61, 136
Poe, Edgar Allan, 80
Poetry, 156, 168, 10
Poinsettia, 8, 10
Poisoning, 211
Poland, 63, 82, 17, 136
Polar easterlies, 24
Polar Express, The, 158
Polio
See Vaccines; Salk, Jonas
Politeness, 212-215
Politi, Leo, 158
Political map, 142
Political parties, 125
Polk, James K., 128, 80
Polo, Marco, 73, 70, 80
Polynesia, 68
Polytheism, 89
Pomo tribe, 108
Pompeii, 28
Ponce de León, Juan, 80
Pontiac, 80
Pooh books, 157, 160
Poor Richard's Almanac, 151
Pope Gregory XIII, 10, 74
See also Gregorian calendar
Poppy, 10, 92
Population, 69, 126, 142, 143 (table), 228, 229, 230
 of countries, 51-68 *continued*

Population, cont.
 of cities, 101-103
 of continents, 49
 of world, 228
Porifera, 35
Pork, 41, 42
Port-au-Prince, Haiti, 57, 129
Port Louis, Mauritius, 61, 135
Port Moresby, Papua New Guinea, 62, 138
Port of Spain, Trinidad and Tobago, 66, 134
Port-Vila, Vanuatu, 67, 138
Portland, Oregon, 102, 130
Porto-Novo, Benin, 52, 135
Portugal, 63, 136
See also Magellan, Ferdinand
Portuguese Guinea
See Guinea-Bissau
Portuguese West Africa
See Angola
Possessive nouns, 179, 166
Post, C. W., 83
Post, Wiley, 80
Postal abbreviations, 100
Potassium, 32, 43
Potato chips, 84
Potatoes, 75, 142, 41
Potawatomi tribe, 109
Potential energy, 31
Potlach, 108
Potter, Beatrix, 160
Pottery, 69, 109
Poulsen, Valdemar, 85
Poultry, 41, 142
See also Chicken; Turkey
Powell, Colin L., 80
Power loom
See Loom, power
Powhatan, 80
See also Powhatan Indians
Powhatan tribe, 109
See also Pocahontas; Powhatan
Prague, Czech Republic, 55, 136
Praia, Cape Verde, 53, 135
Prayer for a Child, 158
Preachers, 90
Precambrian, 26
Precipitation, 21, 24
See also Rain; Snow; Hail
Prefixes, 177, 204
 for numbers, 199
Prehistory, 69
Prepositions, 182, 150
Presbyterian Church, 90
Presidential seal, 208
President's Day, 6
Presidents, 128, 6, 8, 122-123, 127
 Oath of Office, 115 (Article 2, Sect. 1)
See also Executive branch of government
Presley, Elvis, 80
Press, Freedom of, 117 (Amend. 1)
Pressure
 air, 22, 23, 24, 33, 46, 228
 in volcanoes, 27
 in geology, 28, 29, 30
 under water, 46, 228
Pressure cooker, 84
Pretoria, South Africa, 65, 135
Prewriting, 186-187
Priest, 90
Priestley, Joseph, 80
Prime meridian, 140, 3
Prime numbers, 202
Primrose, 10
Printing, movable type, 73, 82, 84
Prism, 196
Prizes
See Awards
Problem solving, 216
Procedures, 210-226
 for spelling study, 173
 for solving word problems, 198
Procyon, 13
Product map, 142
Prohibition, 119 (Amendments 18 & 21)
Projections, map, 141
Pronouns, 179, 150
Pronunciation key, 150
Proofreading, 188
Propeller, screw, 84
Proper nouns, 168-169, 179
Proteins, 41
Protestant Church, 74, 90
See also Luther, Martin; Calvin, John
Protons, 32, 82
Protozoa, 35
Protractor, 207
Provinsen, Alice & Martin, 158
Proverbs, 151
Providence, Rhode Island, 98, 137
Proxima Centauri, 13
Prydain Chronicles, 157
Psychoanalysis
See Freud, Sigmund
Ptolemy, 17, 80
Pueblo tribes, 109
See also Arrow to the Sun
Puerto Rico, 103, 100
Pulley, 31
Pulse, 39
Pumice, 30
Pumpkin, 8, 43
Punctuation, 166-167, 162
 in letter writing, 189-191
 in bibliography, 225
 in interpreting index, 148
Purchasing Power Parity (PPP), 228
Purim, 8
Puzzles
See Jigsaw puzzles
Pyle, Howard, 160
P'yongyang, North Korea, 59, 137
Pyramids of Egypt, 70
Pyrite, 30
Python, 37
Qatar, 63, 68, 135
Quadrilaterals, 207
Quartz, 30
Quasars, 13
Quaternary Period, 26
Quebec Bridge, 86
Queens, 121
See Cleopatra
Quito, Ecuador, 55, 134

QUOTATIONS

Quotations, 122, 16
punctuation/capitalization, 167, 168
in note taking, 220

Qur'an
See Koran

Rabat, Morocco, 61, 135

Rabbi, 89

Rabbit, 35, 36, 37, 109
Easter bunny, 7
See also Hare

Rabbit Hill, 159

Radio, 84

Radium, 32

Radon, 32

Railroad engineers
See Jones, Casey

Railroad tunnels, 87

Railroads, 3, 75
See also Locomotive, steam

Rain, 20-23, 24, 29

Rain dance, 109

Rainbow, 196

Rainfall map, 142

Raleigh, North Carolina, 97, 137

Raleigh, Sir Walter, 80

Ramadan, 90, 8

Ramses II, 80

Raphael, 80

Rapunzel, 158

Raschka, Chris, 158

Raskin, Ellen, 159

Rat, 11

Rathman, Peggy, 158

Rawlings, Marjorie, 160

Rawls, Wilson, 160

Rays (animal), 35

Reader's Digest, 154

Readers' Guide to Periodical Literature, 154

Reading, 216
See also Books

Reagan, Ronald W., 128, 80

Reaper, 84

Recommended Daily Dietary Allowances
See Reference daily intake

Red Cross, 210
See Barton, Clara

Red Sea, 47, 135

Redwood National Park, 107

Reed instruments, 195

Reed, Walter, 80

Reference books and materials, 142-155, 221
in research report, 224-225

Reference daily intake, 42-43, 227

Reformation, 74, 90
See also Luther, Martin; Calvin, John

Refrigerator, 31

Regions of the world, 68

Reincarnation, 89

Relativity, Theory of, 82

Religion, 89-90
holidays, 6-8
calendars, 11
history of, 70-75
freedom of, 117 (Amendment 1)
library classification, 145 *continued*

Religion, cont.
See also Mount Fuji (sacred mountain in Japan); Ganges River (sacred river in India)

Rembrandt, 80

Remington, Frederic, 80

Renaissance, 73-74
See also Da Vinci, Leonardo; Michelangelo; Raphael

Renoir, Pierre, 80

Rehquist, William H., 127

Report, 224-226

Representative democracy, 121

Reptiles, 35-36, 26
endangered, 37

Republic (form of government), 121

Republican party, 125

Research report, 224-225

Respiratory system, 39
See also Breathing

Resurrection of Christ, 7
See also Christianity

Réunion, 23, 135

Revere, Paul, 80, 143 (time line)

Revising, 184, 225
See also Mini Thesaurus; Parenthetical phrases

Revolution of earth and heavenly bodies (orbits), 12, 14, 16
See also Copernicus, Nicolaus; Year (of planets)

Revolutionary War
See American Revolutionary War

Revolver, 84

Reykjavik, Iceland, 57, 136, 129

Rhine River, 48, 136

Rhinoceros, 37, 26

Rhode Island, 98, 100, 74, 111, 120, 131 (*R.I.*)

Rhodes, Greece, 98, 136

Rhodesia
See Zambia; Zimbabwe

Rhythm, 194-195
in poetry, 156
as a memory aid, 222

Ribbon Falls, 47

Riboflavin, 42

Rice, 41, 43, 109

Rice, Condoleezza, 80

Richmond, Virginia, 99, 137

Richter scale, 29, 227

Rickenbacker, Eddie, 80

Rickets, 42, 43

Ride, Sally K., 18, 80

Rifles for Watie, 159

Riga, Latvia, 59, 136

Rigel, 13

Ring of Fire, 25

Rio de Janeiro, Brazil, 103, 134

Rio Grande River, 48, 129
See also Big Bend National Park

Rio Niterói Bridge, 229

Ritty, James, 83

Rivers, 48, 21, 29, 70, 129, 134-138
in National Parks, 104-107
of Connecticut, 142

Riyadh, Saudi Arabia, 64, 135

Road maps, 141, 142

Roberts, John G., 127

Robin, 35, 93, 95, 98

Robin Hood, 80
Robin Hood, Merry Adventures of, 160

Robinson Crusoe, 160

Robinson, Jackie, 80

Robinson projection, 141

Rock, 30, 21, 25-30
in space, 14, 16

Rock and roll band, 31

Rockefeller, John D., 80

Rocket, 85
See also Von Braun, Wernher

Rockwell, Norman, 80

Rocky Mountain National Park, 107

Rocky Mountains, 50, 28, 107, 108-109, 129

Roemer, Olaus, 82

Roentgen, Wilhelm, 80, 82

Rogers, Will, 80

Rohmann, Eric, 158

Rojankovsky, Feodor, 158

Rokko Tunnel, 87

Roll of Thunder, Hear My Cry, 159

Roller skates, 85
Roller Skates, 159

Roman Catholic Church, 73, 74, 90
See also Pope Gregory XIII

Roman Empire, Ancient, 71-72
alphabet, 162
See also Latin; Roman gods; Roman numerals

Roman gods, 6, 9, 11

Roman numerals, 187, 198

Romania, 63, 68, 136

Rome, Italy, 58, 136
See also Roman Empire, Ancient

Roosevelt, Eleanor, 80

Roosevelt, Franklin D., 128, 80, 122, 208

Roosevelt, Theodore, 128, 80, 107, 122

Rooster Crows, The, 158

Roots of plant, 34, 29, 108, 109

Roots, word, 176

Rose, 10, 93, 94, 97

Rose hips, 42

Roseau, Dominica, 55

Rosh Hashanah, 8

Ross, Betsy, 80

Rotation, 9, 3, 14, 140, 227
of hurricane winds, 22
See also Days (of planets)

Royal Gorge, 48

Rubber bands, 85

Rubber, vulcanized, 85

Ruby, 10, 30

Rulers, English and metric, 204

Rumania
See Romania

Runaway Switchboard, 155

Runyang Bridge, 86

Ruppel's vulture, 36

Russia, 63, 18, 47, 50, 68, 73, 75, 88, 108, 143 (table), 228, 136, 137, 129
alphabet, 164
See also Catherine the Great; Nicholas II

SAND PAINTING

Russian Orthodox Church
See Orthodox Church

Rust, 33

Ruth, Babe, 80

Rutherford, Ernest, 82, 32

Rwanda, 63, 135

Rylant, Cynthia, 159

Ryugyong Hotel, 88

Sabbath, 89
See also Creation

Sabine-Neches Waterway, 86

Sacagawea, 80, 208
See also Shoshone Indians

Sachar, Louis, 159

Sacramento, California, 102, 92, 130

Safety pin, 84

Saguaro National Park, 107

Sahara Desert, 49, 135

Sailboat, diagram of, 143

Saint Augustine, Florida, 74

Saint Christopher-Nevis
See Saint Kitts and Nevis

Saint George and the Dragon, 158

Saint George's, Grenada, 57

Saint Gotthard Tunnel, 87

Saint Helens, Mount, 28

Saint John's, Antigua & Barbuda, 51

Saint Kitts and Nevis, 63, 132

Saint Lawrence River, 48

Saint Lawrence Seaway, 86

Saint Louis, Missouri, 103, 137

Saint Lucia, 63, 132, 134

Saint Patrick's Day, 6

Saint Paul, Minnesota, 95, 137

Saint Valentine, 6

Saint Vincent & the Grenadines, 63-64, 132, 134

Saints
See Joan of Arc

Salad oil, 41, 42

Salamander, 35

Salem, Oregon, 97, 130

Salisbury, Zimbabwe
See Harare

Saliva, 40

Salk, Jonas, 80, 85

Salmon, 35, 37, 106, 108

Salt, 30, 33, 43

Salt Lake City, Utah, 99, 130

Sam, Bangs, and Moonshine, 158

Samoa, 64, 68, 133

Samoa, American, 104

Samoset, 80

Samuelson, Ralph, 85

San Andreas Fault, 28

San Antonio, Texas, 103, 130
See also Cisneros, Henry Gabriel

San Diego, California, 103, 130

San Francisco, California, 103, 29, 87, 3, 130

San Jose, California, 103, 130

San José, Costa Rica, 54, 134

San Juan, Puerto Rico, 103

San Marino, 64

San Salvador, El Salvador, 55, 129

Sanaa, Yemen, 67, 135

Sand dunes, 105, 106

Sand painting, 109

SANDBURG

Sandburg, Carl, 80
Sandpiper, 35
Sandstone, 30
Sanskrit, 89
Santa Claus, 8
Santa Fe, New Mexico, 96, 130
Santiago, Chile, 54, 134
Santo Domingo, Dominican Republic, 55
São Tomé & Príncipe, 64, 135
São Paulo, Brazil, 103, 134
Sapphire, 10, 30
Sarah, Plain and Tall, 159
Saratoga, New York, 143 (time line)
Sardonyx, 10
Sarajevo, Bosnia-Herzegovina, 52, 136
Satellites, 18
 moons, 15, 16-17
Saturn, 14, 15, 9, 17, 18
Saudi Arabia, 64, 68, 47, 135
Sauk tribe, 109
See also Black Hawk
Sawyer, Ruth, 159
Sax, Adolphe, 85
Saxophone, 85
Say, Allen, 158
Scale of miles, 141
Scandinavia, 68
See also individual countries
Schedules, 143
Schist, 30
Schoenherr, John, 158
Schönbein, Christian, 82
Schubert, Franz, 80
Schulz, Charles, 81
Schumann, Robert, 81
Schwarzkopf, Norman, 81
Schweitzer, Albert, 81
Science, 12-44
 measurement, 204-205
 projects, 226
 library classification, 145
Science Projects, 226
Scorpions, 35
Scotland, 68, 85
See also United Kingdom
Screw, 31
Screw propeller
See Propeller, screw
Scuba gear, 85
Scurvy, 42
Sea, 47, 49, 129-138, 228
Sea urchin, 35
Seafood, 43
See also Fish; Shellfish
Seal
 of the U.S., 125
 presidential, 208
Seal (animal), 35, 36, 108
Seaman, Elizabeth Cochrane
See Bly, Nellie
Search and seizure, 117 (Amend. 4)
Sears Tower, 88
Seasons, 12, 2, 7, 8, 24
Seattle, Washington, 103, 130
Second in time, 2, 199
 leap second, 227
Secret Garden, The, 160
Secret of the Andes, 159
Sedimentary rock, 29, 30
Seed drill, 85
Seeds, 34, 41, 42, 43, 108
Seelisberg Tunnel, 87
Seikan Tunnel, 87
Seine River, 48, 136
Seismograph, 85
Selassie, Haile
See Haile Selassie I
Seminole tribe, 109
See also Osceola
Senate, 126, 127
See also Congress; Glenn, John, Jr.
Sendak, Maurice, 158
Seneca tribe, 109
Senegal, 64, 135
Senses and sense organs, 40
Sentences, 166, 167, 168
Seoul, South Korea, 59, 137
Sequoia National Park, 107
Sequoia trees, 36, 107, 26
Sequoyah, 81
See also Cherokee Indians
Serbia, 64, 228
Seredy, Kate, 159
Seward, William H., Jr., 81
Sewing machine, 82, 85
Seychelles, 64, 135, 133
Shackleton, Sir Ernest Henry, 81
Shadow, 158
Shadow of a Bull, 159
Shah Jahan, 87
Shakespeare, Tales from, 160
Shakespeare, William, 74, 81, 173
Shale, 30
Shamrock, 6
Shanghai, China, 103, 139
Shannon, Monica, 159
Shark, 26, 35, 36
Shavuot, 8
Shawnee tribe, 109
See also Tecumseh
Sheep, 11, 36, 37
Shellfish, 26, 35
Shelter, of native Americans, 108-109
Shen of the Sea, 159
Shenandoah National Park, 107
Shepard, Alan B., Jr., 18
Shiite Muslim, 90
Shiloh, 159
Shimao Intl. Plaza, 88
Shin Kanmon Tunnel, 87
Shintoism, 90
Shock, 210-211
Sholes, C. Latham, 85
Shooting stars
See Falling stars
Shopping cart, 85
Shoshone tribe, 108
See also Sacagawea
Shrew, 35
Shrimp, 35
Shulevitz, Uri, 158
Shun Hing Square, 88
Shuttle, flying, 85
Siam
See Thailand
Siberia, 47, 137

Sicily, 28, 136
Siddhartha Gautama, 78, 89
See also Buddhism
Sidjakov, Nicolas, 158
Sierra Leone, 64, 135
Sierra Nevadas, 28, 106
Sign language, 163, 109
Sikorsky, Igor, 84
Silk, 70
Silurian Period, 26
Silver, 32, 33, 153
Silver Strand waterfall, 47
Simont, Marc, 158
Simplon I & II tunnels, 87
Sin, 90
Sinatra, Frank, 81
Singapore, 64, 68, 137
Singer, Isaac, 82
Single Shard, 159
Sioux tribe, 109, 229
See also Gall; Sitting Bull; Crazy Horse; Deloria, Vine, Jr.
Sirius, 13
Sitting Bull, 81
See also Sioux Indians
Sivrac, Comte Mede de
See de Sivrac, Comte Mede
Size
 of stars, 13
 of sun & planets (diameter), 14, 15
 of moon, 16
 of atoms, 32
 of animals and plants, 36
 measurement of, 204-205
Skeleton, 38
Skin, 34, 41-43
 use by native Americans, 108-109
Skis, water
See Water skis
Skopje, Macedonia, 60, 136
Sky, 13
Skylab, 18
Skyscrapers, 88, 229, 230
Slate, 30
Slave Dancer, The, 159
Slavery, 69, 75, 125
 abolished, 118 (Amendment 13)
 by native Americans, 108
See also Lincoln, Abraham
Sleet, 21
Slobodkin, Louis, 158
Slovakia, 64, 136, 228
Slovenia, 64-65, 68, 228, 136
Small, David, 158
Smallpox
See Vaccines
Smith, John, 81
See also Jamestown
Smith, John Stafford, 124
Smith, Joseph, 81
Smoking
See Tobacco
Smoky Night, 158
Smoky the Cowhorse, 159
Snail, 26
Snake, 11, 35, 36
See also Indian python
Snow, 21, 23, 24
Snow leopard, 37
Snowdrop, 10
Snowfall, greatest, 23
Snowflake Bentley, 158
Snowshoes, 108
Snowy Day, The, 158
So You Want to be President? 158
Soapstone, 108
Socialism, 121
Socrates, 71, 81
Sodium, 32, 43, 227
Sofia, Bulgaria, 53, 136
Soil, 21, 37, 29, 34
Solar eclipse, 17
Solar system, 14-15, 18, 227
Solar wind, 15
Solid, 33
Solomon Islands, 65, 68, 138
Solstice, 12
See Summer; Winter (first day of)
Somalia, 65, 135
Somaliland, French
See Djibouti
Song, 124
 state songs, 92-100
Song and Dance Man, 158
Song of the Swallows, 158
Sonoran Desert, 107
Soo Canal, 86
Sorensen, Virginia, 159
Soto, Hernando de
See De Soto, Hernando
Soule, John, 122
Sound, 22, 31, 36, 227
 music, 194-195
Sounder, 159
Sousa, John Philip, 81
South Africa, Republic of, 65, 135, 228
See also Mandela, Nelson; Tutu, Desmond
South America, 48, 49, 25, 48, 50, 68, 140
 countries of, 51-68
 map of, 134, 48
See also Continents
South Carolina, 98, 100, 74, 104, 111, 116, 128, 137
South China Sea, 47, 137, 138
South Dakota, 98, 100, 88, 104, 107, 130
South Pole, 140, 9, 12, 24
See also Amundsen, Roald
Southeast Asia, 68, 47, 48, 89
See also individual countries
Southeast trade winds, 24
Southern Camerouns
See Nigeria
Southern Cross, 13
Southern hemisphere, 140, 12
 rotation of winds, 22
Southern lights, 20
Southern Ocean, 46, 228
Southern Rhodesia
See Zimbabwe
Southwest Africa
See Namibia
Southwesterly winds, 24
Soviet Union (U.S.S.R.), 68, 75, 18, 228
Continued on p. 246

SOVIET UNION

Soviet Union (U.S.S.R.), cont.
See also Russia; Armenia;
 Azerbaijan; Belarus; Estonia;
 Georgia, Republic of; Kazakhstan;
 Kyrgyzstan; Latvia; Lithuania;
 Moldova; Tajikistan; Turkmenistan;
 Ukraine; Uzbekistan

Soybeans, 43

Soyuz, 18

Space, 13-18
See also Moon

Space Age, 18, 75

Space shuttle, 18

Spain, 65, 74 *136*
See also Spanish language

Spangler, James Murray, 85

Spanish-American War, 75

Spanish language, 9
 origins of state names, 92-96

Speare, Elizabeth George, 159

Species, 35, 37, 230

Spectrum, 196

Speech, freedom of, 117
 (Amendment 1)

Speech making, 217
See also Library research report

Speeches, 123

Speed
 of earth's rotation, 9
 of earth's revolution, 12
 of light, 13, 22, 227
 of sun around Milky Way, 13
 of planets, 15, 227
 needed to escape gravity, 17
 wind speed and temperature, 21
 of sound, 22, 227
 of winds, 22, 23, 227
 of electrons, 32
 of animals, 36, 227

Spelling, 173-175, 169, 150
 homophones, 170-172
 adding endings, 179, 180
 phonetic spelling, 150

Sperry, Armstrong, 159

Sphinx, 70

Spica, 13

Spices, 43

Spiders, 35

Spier, Peter, 158

Spilsbury, John, 84

Spinal cord, 40

Spinelli, Jerry, 159

Spinning, inventions, 85

Sponges, 35, 26

Spring, 7, 12, 24
 goddess of, 11
See also Ground Hog Day

Spring tides, 16

Springfield, Illinois, 94, *137*

Sputnik I, 18

Spyri, Johanna, 160

Squanto, 81

Squash, 109, 229

Sri Lanka, 65, 3, 89, *137*

Stalin, Joseph, 121, 81

Stamp Act, 143 (time line)

Standardized tests, 223

Stanley, Henry Morton, 81, 48

Stanton, Elizabeth Cady, 81

Staple food, 229, 108-109

Star of David, 89

Star Spangled Banner, 124
See also Key, Francis Scott

Starfish, 35

Stars, 13, 17, 227

Stars and Stripes, 124, 7

State, Secretary of, 127

States, Confederate, 100
See also Davis, Jefferson

States of U.S., 92-100, 124, *130-131*, 229

States rights, 114 (Sections 9 & 10), 117 (Amendment 10)

Statue of Liberty, 124-125

Steam engine, 75, 85

Steam locomotive
See Locomotive, steam

Steamship, 82, 85

Steel, 227

Steig, William, 158

Stethoscope, 85

Stevenson, Robert Lewis, 160

Stock market, 75
 in newspaper, 153

Stockholm, Sweden, 65, *136*

Stomach, 40

Stone, Harlan F., 127

Stone, Marvin, 85

Storebaelt Bridge, 86

Storms, 22-23

Story A Story, 158

Story of Mankind, The, 159

Stowe, Harriet Beecher, 81

Strait of Gibraltar, *135*, *136*

Stratocumulus clouds, 20

Stratosphere, 20

Stratus clouds, 20

Strauss, Johann, 81

Strauss, Levi, 83

Strauss, Richard, 81

Stravinsky, Igor, 81

Strawberry Girl, 159

Straws, drinking, 85

Stringed instruments, 195

Stroke, 44

Stromboli, 28

Strontium, 32

Structures, 86-88

Studying, 221

Sturgeon, William, 83

Subatomic particles, 32

Submarine, 46, 85

Subtraction, 200

Sudan, 65, 68, *135*

Suez Canal, 86

Suffixes, 178
 rules for adding, 173, 179-180

Suffrage
 black, 118 (Amendment 15)
 women, 119 (Amendment 19)
 youth, 120 (Amendment 26)

Sugar, 33, 34, 41, 44, 109

Suicide, 44

Sukkot, 8

Sulfur, 32

Sulu Sea, 47, *137*, *138*

Sumatra, 49, *137*

Summer, 7, 12, 24

Summer of the Swans, 159

Sun, 2, 9, 12, 13, 14-15, 16-17, 24, 29, 31, 34, 74, 82, 90, 227
 and Vitamin D, 42
 escape from gravity, 17

Sun dance, 109

Sunflower seeds, 42, 43

Sunni Muslim, 90

Superior, Lake, 46, 106 *137*
See also Isle Royale National Park

Supreme Court, 127
See also Marshall, Thurgood

Surgery
See Antiseptic

Suriname, 65, *134*

Sutherland Falls, 47

Suva, Fiji, 56, *138*

Swan, 36

Swaziland, 65, *135*

Sweden, 65, 68, 83, 84, 85, 86, *136*

Sweet Pea, 10

Switzerland, 65, 82, 85, 87, 88, *136*

Syllables, 150

Sylvester & the Magic Pebble, 158

Symbols
 holiday, 6-8
 chemical, 32
 religious, 89-90
 of America, 124-125
 in maps, 141
 in graphs, 143
 in phonetic spelling, 150
 hieroglyphics, Chinese, 162
 mathematical, 198

Synagogue, 89

Synonyms, 151, 150

Synthesizer, 85, 195

Syria, 65, 68, *135*

Taback, Simms, 158

Tables (graphic aids), 143

Taft, William H., 128, 127, 81

Taipei, Taiwan, 66, *137*

Taipei 101, 88

Taiwan, 66, 68, 86, 88, 90, *137*

Taj Mahal, 87

Tajikistan, 66, 68, 88, *137*

Tale of Despereaux, 159

Tales from Shakespeare, 160

Tales from Silver Lands, 159

Tales of Mother Goose, 160

Tales of Peter Rabbit, 160

Tallahassee, Florida, 93, *137*

Tallinn, Estonia, 56, *136*

Talmud, 89

Tamborine, 195

Tanganyika
See Tanzania

Tanganyika, Lake, 46, *135*

Tanzania, 66, 228, *135*

Tao Te Ching, 90

Taoism, 90, 71

Tape recorder, 85

Tarawa, Kiribati, 58, *138*

Tashkent, Uzbekistan, 67, *138*

Tasman Sea, 47, *138*

Tatara Bridge, 86

Taylor, Mildred D., 159

Taylor, Zachary, 128, 81

THIRD WORLD

Taxes
 constitutional provision for, 113-114 (Article 1, Section 8), 118 (Amendment 16)

Tblisi, Rep. of Georgia, 56, *137*

Tchaikovsky, Peter Ilich, 81

Tea, 42, 143

Teasdale, Sara, 81

Tectonic plates, 25, 27, 29

Tecumseh, 81
See also Shawnee Indians

Teepee, 108, 109

Teeth, 41-43

Tegucigalpa, Honduras, 57, *129*, *134*

Teheran, Iran, 58, *135*, *137*

Telegraph, 85, 163

Telephone, 75, 85, 155
 time zones, 3
 etiquette, 213-214

Telescope, 85, 17

Teletype, 153

Television, 75, 85, 18, 31

Teletar I, 18

Temperance
See Prohibition; Nation, Carry

Temperate zone, 24

Temperature, 23, 24, 205, 35
 of sun and planets, 14-15
 on moon, 16
 of layers of atmosphere, 20
 wind chill, 21
 of earth's core, 25
 to refine oil shale, 30
 melting/freezing, 33
 calorie measurement, 44

Temperature map, 142

Temple, Shirley, 81

Tennessee, 98, 100, 102, 105, *137*

Tennyson, Alfred Lord, 81

Tephra, 27

Teresa, Mother, 81

Tereshkova, Valentina V., 18, 81]

Terrorist, 75
See also bin Laden, Osama

Tertiary Period, 26

Tesla, Nikola, 84

Tests, 223

Texas, 98-99, 100, 18, 23, 86, 101, 103, 104, 105, 109, 128, *130*
See also Houston, Samuel; Dallas; Houston

Thailand, 66, 68, *137*

Thames River, 48

Thanksgiving, 8, 74

Thatcher, Margaret, 81

THC, 44

The Center (skyscraper), 88

Theater
See Drama

Theodore Roosevelt National Park, 107

Thermometer, 205, 21, 23, 85

Thermosphere, 20

Thesaurus, 151, 221

They Were Strong and Good, 158

Thiamine, 42

Thimble Summer, 159

Thimonnier, Barthélemy, 82

Thimphu, Bhutan, 52, *137*

Third World, 68

THOMSON

- Thomson, Sir Joseph J.**, 82
Thomson, Robert W., 85
Thor, 9
Thoreau, Henry David, 81
Thorpe, Jim, 81
Three Pigs, 158
Thunder, 22, 31
 gods of, 9
Thyroid, 43
Ticks, 35
Tides, 16
Tiger, 11, 37
Time, 2, 3, 199, 221
 in music, 195
 for least expensive phone calls, 155
Time line, 70-75, 143, 228
Time Magazine, 154
Time of Wonder, 158
Time zones, 3, 140, 230
Timor Sea, 47, 137, 138
Tin, 32, 33
Tiranë, Albania, 51, 136
Tire, pneumatic, 85
Titan, 17
Tito, Josip Broz, 81
Tiw, 9
Tlingit tribe, 108
Toad, 35
Tobacco, 44, 142
Tobago
 See Trinidad and Tobago
Toboggan, 108
Tofu, 41
Togo, 66, 135
Tokyo, Japan, 103, 58, 3, 137
Toledo, Ohio, 137, 141
Tolkien, J. R. R., 157, 160
Tom Sawyer, 160
Tomatoes, 42
Ton (measurement), 204-205
Tonga, 66, 68, 133
Tools, 69
 invention of, 83-85
 of native Americans, 108-109
Toothbrush, 85
Topaz, 10, 30
Topeka, Kansas, 94, 130
Topographical map, 142
Torah, 89
Tornado, 22, 23
Torrice, Evangelista, 83
Totalitarianism, 121
Totem pole, 108
Tourmaline, 10
Township, 204
Tractor, 85
Traditions
 holidays, 6-8
 religious, 89-90
 folk literature, 156
Trains
 See Railroads
Trampoline, 85
Tranquilizers, 44
Transpiration, 21
Transportation, 31
 inventions, 83-85
 of native Americans, 108-109
 bridges, canals, tunnels, 86-87
Transportation, Secretary of, 127
Travel, time zones, 3
Travers, Pamela L., 160
Travois, 109
Treasure Island, 160
Treasury, Secretary of, 127
Treble clef, 194
 memorization of notes, 222
Tree is Nice, A, 158
Trees, 36, 26
 state trees, 92-100
 Christmas tree, 8
Trenton, New Jersey, 96, 137
Trevino, Lee, 81
Trevithick, Richard, 84
Trial by jury, 117 (Amendments 6, 7)
Triangles, 204, 207
Triassic Period, 26
Trilobites, 26
Trinidad and Tobago, 66, 132, 134
Tripitika, 89
Tripoli, Libya, 59, 135
Trombone, 195
Tropic of Cancer, 12, 24, 7
Tropic of Capricorn, 12, 24, 8
Tropical storms
 See Hurricanes; Monsoon rains
Tropics, 24
Troposphere, 20
Trotsky, Leon, 81
Trucial States
 See United Arab Emirates
Truman, Harry, 128, 81, 122
Trumpet, 195
Trumpeter of Krakow, The, 159
Truth, Sojourner, 81
Ts'ai Lun, 84
Tsimshian tribe, 108
Tsing Ma Bridge, 86
Tuba, 195
Tubman, Harriet, 81
Tucson, Arizona, 103, 130
Tuesday (book), 158
Tull, Jethro, 85
Tulsa, Oklahoma, 103, 130
Tungsten, 32
Tunis, Tunisia, 66, 135
Tunisia, 66, 135
Tunnels, 87
Tuntex Sky Tower, 88
Turbines, 31
Turkey, (animal), 8, 41
Turkey (country), 66, 68, 47, 50, 86, 135
Turkmenistan, 66, 68, 137
Turquoise, 10, 30
Turtle, 26, 35
Tutankhamen, 70, 81
Tutu, Desmond, 81
Tuvalu, 68, 138
TV, 75, 85, 18, 31
TV Guide, 154
Twain, Mark, 81, 160
Twenty-One Balloons, 159
Twisters, 22
Two Intl. Finance Center, 88
Tylenol, 44
Tyler, John, 128, 81
Typewriter, 85
 keyboard, 164
Typhoons, 22
Tyrrhenian Sea, 47, 136
Uganda, 66-67, 135
Ukraine, 67, 68, 136, 137
Ulaanbaatar, Mongolia, 61, 137
Ultraviolet light, 196
Ulu, 108
Umiak, 108
Uncle Sam, 125
Union of Soviet Socialist Republics
 See Soviet Union
Unions, 7
 See Walesa, Lech; Chavez, Cesar
United Arab Emirates (U.A.E.), 67, 68, 88, 135
United Kingdom, 67, 68, 120, 136
 See also England; Great Britain;
 Scotland; British
United Press International (UPI), 153
United Nations, 68, 230
United States, 67, 3, 18, 44, 50, 68, 69, 143 (table), 144, 129-131, 229
 climate, 24
 history, 74-75, 143 (time line)
 holidays of, 6-8
 notable people, 76-81
 inventors, 83-85
 structures, 86-88
 religions, 89-90
 rivers, 48
 cities, 101-103, 229
 National Parks, 104-107
 native Americans, 108-109
 government, 110-121, 126-127
 symbols of, 124-125
 presidents, 128
 periodicals in, 154
 money, 208
Universal time, 3
Universe, 13, 89
Up a Road Slowly, 159
Upper Volta
 See Burkina Faso
Upper Yosemite Falls, 47
Uranium, 32, 33
Uranus, 15, 18
Urban areas, 103, 228, 229
 See also Cities
Uruguay, 67, 134
Usage, word, 182, 212
U.S.S.R.
 See Soviet Union
Utah, 99, 100, 104, 107, 109, 130
Ute tribe, 108, 99
Uzbekistan, 67, 68, 137
Vaccines, 85
 See also Salk, Jonas
Vacuum, 227
Vacuum cleaner, 85, 31
Vaduz, Liechtenstein, 59
Valdés Peninsula, 49
Valentine's Day, 6
Valium, 44
Valletta, Malta, 60
Valley Forge, Pennsylvania, 143
 (time line)
Valley of 10,000 Smokes
 See Katmai National Park
Van Allsburg, Chris, 158
Van Buren, Martin, 128, 81
Vandals, 72
Van Gogh, Vincent, 81
Van Loon, Henrik, 159
Vanuatu, 67, 68, 138
Veal, 41
Vega, 13
Vegetables, 41, 42, 43, 142
Veins, 39
Vencro, 85
Venezuela, 67, 47, 134
 See also Bolívar, Simón
Venison, 41
Venus, 15, 9
Verbs, 180-181, 150
 verb-forming suffixes, 178
Verenia Tunnel, 87
Vermont, 99, 100, 128, 137
Vernal equinox, 12, 7
Verne, Jules, 160
Verrazano-Narrows Bridge, 86
Vertebrates, 35, 26
Vertical file, 144, 145
Vespucci, Amerigo, 81
Vesuvius, 28
Veterans' Affairs, Secretary of, 127
Veterans Day, 8
Vettisfoss Waterfall, 47
Vibration, 194-195
Vice President of U.S., 127
 See also Cheney, Richard; Burr, Aaron
Victoria Falls, 47
Victoria, Lake, 46, 135
Victoria Island, 49, 129
Victoria, Seychelles, 64, 135
Vienna, Austria, 51, 136
Vientiane, Laos, 59, 137
Vietnam, 67, 68, 75, 137
Vietnam War, 75
 See also Ho Chi Minh;
 Westmoreland, William
View from Saturday, 159
Viking, 72
Villa, Pancho, 81
Vilnius, Lithuania, 60, 136
Vinson, Frederick M., 127
Vinson Massif, 49, 50
Viola, 195
Violet (flower), 10
Violin, 195
Virgin Islands, 100, 107
Virgin Islands National Park, 107
Virginia, 99, 100, 74, 103, 107, 111, 116, 128, 137
Virginia Beach, Virginia, 103, 137
Visit to William Blake's Inn, 159
Vital statistics, 153
Vitamins, 41, 42, 44, 227
Voice, 195
 decibel levels, 31
Voight, Cynthia, 159
Volcanoes, 27-30, 25, 50, 26, 230
 in National Parks, 104-106
Volga River, 48, 136, 137
Volta, Alessandro, 83
Volume (measurement), 204-205
 of water in rain, 21
 of blood pumped in body, 39
 of air breathed, 39

VON BRAUN

Von Braun, Wernher, 81
Vote, right to, 118-120 (Amendments 14, 15, 19, 22, 26)
Vowels, 162, 164
Voyager spacecraft, 18
Voyages of Dr. Dolittle, 159
Voyageurs National Park, 107
Vulture, 36

Wages
 See Income

Wagner, Richard, 81
Wales, 68
 See also United Kingdom
Walesa, Lech, 81
Walk Two Moons, 159
Walker, Fred, 85
Wall of China, 71
Wall Street crash
 See Stock Market

Waltz
 See Strauss, Johann

Wampanoag Indians
 See Massasoit; Philip, King

Wampum belts, 109
War, 74, 75
 holidays, 7, 8
 gods of, 9
War of 1812, 75, 124, 125, 144
War of the Worlds, 160
Ward, Lynd K., 158
Warm blooded, 35
Warm front, 22
Warren, Earl, 127
Warsaw, Poland, 63, 136
Washington (state), 99, 100, 23, 28, 86, 88, 103, 106, 107, 130, 229
Washington, Booker T., 81
Washington, D.C., 103, 67, 100, 123, 126-127, 144, 129, 131
Washington, George, 128, 6, 81, 116, 143 (time line), 208
 See also George Washington Bridge
Washington Monument, 123
Washington's Birthday, 6
Waste, 37
Water, 20-21, 33, 46-48, 16, 24, 29, 34, 35, 41, 227, 228
 tides, 16
Water cycle, 21
Water Lily, 10
Water skis, 85
Water vapor, 21, 23, 33
Waterfalls, 47, 107, 228
Waterless Mountain, 159
Waterloo, 75
Waterman, Cameron B., 84
Watership Down, 160
Waterspout, 22
Watie, Stand, 81
Watt, James, 75, 81, 85
Waves, 29
Weapons
 invention of, 83-85
 right to bear arms, 117 (Amend. 2)

Weather, 20-24, 16, 230
 in newspaper, 153
Weather map, 22, 142
Weathering of rock, 29

Webster, Daniel, 81
Webster, Noah, 81
Wedge, 31
Week, 2
Weight
 measurement of, 204-205
 on moon, 17
 of water, 21, 46, 228
 of air, 23
 of largest hailstone, 23
 atomic weight, 32
 of animals, 36
 of muscles in body, 38
 of food eaten in lifetime, 40
 of brain, spinal cord, 40
 of Liberty Bell, Statue of Liberty, 124

Weisgard, Leonard, 158
Weisner, David, 158
Weiss, Ehrich
 See Houdini, Harry

Welland Ship Canal, 86
Wellington, New Zealand, 62, 138
Wellington, Duke of, 81
 See also Waterloo: Napoleon Bonaparte

Wells, H. G., 160
West Virginia, 99, 100, 131
Western hemisphere, 140, 50
Westing Game, 159
Westinghouse, George, 81, 83
Westmoreland, William, 81
Whale, 36, 37, 26, 108, 227
Wheat, 43
Wheatley, Phillis, 81
Wheel and axle, 31
Wheel of Life, 89
Wheel on the School, 159
Where the Lilies Bloom, 160
Where the Red Fern Grows, 160
Where the Wild Things Are, 158
Whipping Boy, 159
Whistler, James McNeill, 81
White, E. B., 160
White, Edward D., 127
White, Edward, II, 18
White House, 127
White Sea, 47, 136
White Snow, Bright Snow, 158
White Stag, The, 159
Whitman, Walt, 81
Whitney, Eli, 81, 83
Whittle, Frank, 84
Why Mosquitoes Buzz in People's Ears, 158

Wickiup, 108
Wien, Wilhelm, 82
Wiesner, David, 158
Wigwam, 109
Wildler, Laura Ingalls, 157, 160
Wildlife, 104-107
 See also Animals

Wilkins, Roy, 81
Willard, Nancy, 159
Williams, Daniel Hale, 81
Williams, Hank, 81
Wilson, Woodrow, 128, 81, 122, 208
Wind, 21, 22, 23, 29, 16, 227
Wind Cave National Park, 107
Wind chill, 21

Wind diagram, 24
Wind in the Willows, 160
Wind instruments, 195
Windhoek, Namibia, 61, 135
Windward Islands
 See Saint Lucia; Saint Vincent & the Grenadines
Winnie the Pooh, 157, 160
Winnipeg, Lake, 46, 129
Winter, 8, 12, 24
 See also Ground Hog Day

Wire services, 153
Wireless
 See Radio

Wisconsin, 99-100, 69, 102, 131
Wisniewski, David, 158
Witch of Blackbird Pond, 159
Woden, 9
Wojciechowska, Maia, 159
Wolves, 37
Woman's Day (magazine), 154
Women
 in space, 18
 right to vote, 119 (Amendment 19)
 See also Human being

Wonder, Stevie, 81
Woodchuck
 See Ground Hog Day

Woodwinds, 195
Word problems, 198
Words
 dictionary, 150
 mini-thesaurus, 151
 homophones, 170-172
 spelling, 169, 173-175
 roots, prefixes, suffixes, 176-178
 grammar and usage, 179-182

Wordsworth, William, 81
World
 statistics, 69, 228
 map of, 132-133
 See Earth: Geography: Geology; History; Population; Cities; Countries; Maps; Time zones

World history
 See History

World Trade Center, 75, 229
World War I, 75, 122, 7, 8
World War II, 75, 122
 See also MacArthur, Douglas

Worms, 35, 26
Wounds, 42, 210-211
Wrangell-St. Elias National Park, 107
Wreaths, 8
Wright Brothers, 75
 See also Wright, Wilbur; Wright, Orville

Wright, Frank Lloyd, 81
Wright, Orville, 81, 83
 See also Wright Brothers

Wright, Wilbur, 81, 83
 See also Wright Brothers

Wrinkle in Time, 159
Writing, 184-193
 handwriting, 162
 editing helps, 166-169
 writing a speech, 217
 interview, 219
 writing notes, 220

Writing, cont.
 research report, 224-225
 See also Sequoyah
Wyeth, Andrew, 81
Wyoming, 100, 47, 105, 107, 130

X rays, 82
Xerography (copy machine), 85
Xiaowan Dam, 88

Yamoussoukro, Côte d'Ivoire, 54, 135
Yang, 90
Yangtze Kiang River, 48, 137
Yaoundé, Cameroon, 53, 135
Yaqui tribe, 109
Yates, Elizabeth, 159
Year, 2, 6, 10, 11, 12, 199
 of planets, 15
Year Down Yonder, 159
Yearbook, 149
Yearling, The, 160
Yeast, 37, 42
Yellow pages, 155
Yellow River, 48, 137
Yellow Sea, 47, 137
Yellowstone National Park, 104, 107
 See also Lower Yellowstone Falls

Yeltsin, Boris N., 81
Yemen, 67, 68, 228, 135
Yerevan, Armenia, 51, 137
Yin & Yang, 90
Yogi, 89
Yogurt, 41, 43
Yom Kippur, 8
Yosemite Falls, Upper, 47
Yosemite National Park, 107
 See also Yosemite Falls, Upper

Young, Brigham, 81
Young, Ed, 158
Young, John W., 18
Young of animals, 36
Yugoslavia, 228
Yukon River, 48, 129
Yung Fu of the Upper Yangtze, 159
Yunnan Dam, 88

Zagreb, Croatia, 54, 136
Zaire
 See Congo, Democratic Republic of

Zaire River (Congo), 48, 147
Zambia, 67, 88, 135
Zanzibar
 See Tanzania

Zelinsky, Paul O., 158
Zemach, Margot, 158
Zen Buddhism
 See Buddhism

Zimbabwe, 68, 135
Zinc, 32, 33, 43
Zion National Park, 107
Zip Codes, 191
 of state capitals, 100
 See also Addresses

Zipper, 85
Zircon, 10
Zones
 time, 3
 climate, 24
Zuni tribe, 109