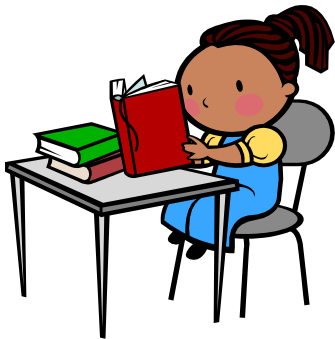




# Basic Reference Resources

## Grades 3-5



By Mrs. Paula McMullen  
Library Teacher  
Norwood Public Schools

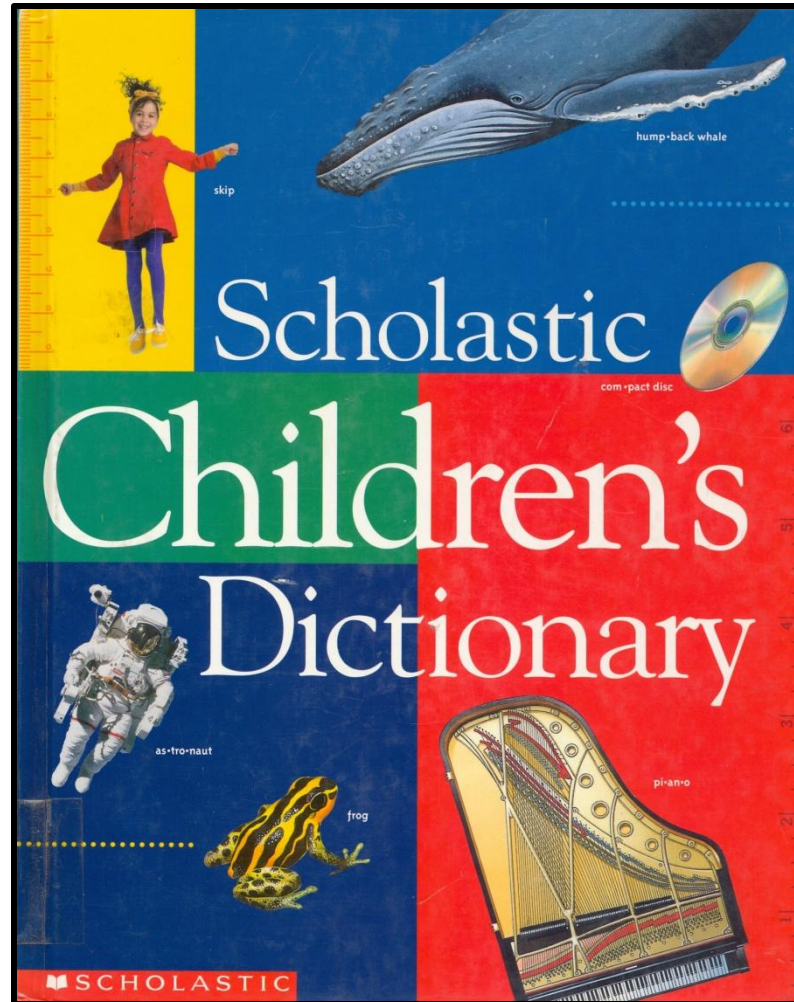
# Introduction

- A **reference resource** helps us to find answers to information questions.
- These questions may be about **words, subjects, places in the world, or current topics.**
- Some reference resources are **print**, and some are **online**.
- The most common reference resources are the: **dictionary**, **thesaurus**, **encyclopedia**, **atlas** and **almanac**.

# Dictionary

- Dictionaries give us information about **words**.
- Dictionaries tell how to **spell** and **pronounce** a word.
- Dictionaries give the word's **part of speech** (noun, verb, adjective, adverb).
- Dictionaries give us brief **definitions** of words – in a sentence or two.
- Dictionaries give us **synonyms** – or other words that mean the same thing.
- The **bolded words** – and their information – are called **entries**.

# Print Dictionary





## Dictionary Entries Close Up

**Syllable Breaks** are indicated by small dots in most main entry words. Entries made up of two separate words or two words and a hyphen are not broken into syllables. To find their syllable breaks, look up each part of the term separately. For example, to find the syllable breaks for *table manners*, look up *table* and *manners*.

**Numbers** appear at the beginning of each meaning when a word has more than one meaning. The most frequently used meanings generally appear first.

**Usage Guides** tell you that a meaning of a word is informal or slang. Informal words are used in everyday speech but not usually in formal speech or in writing. Many slang terms or meanings are very popular only for a short period of time. Like informal words, they are not appropriate in formal writing such as term papers and essays.

**Pronunciations**, given in parentheses, follow most main entry words. The "Pronunciation Guide" on page v explains which letters represent each sound. If the pronunciation of a word changes depending on its meaning, the appropriate pronunciation appears with the appropriate meaning.

**Definitions** tell the meanings of words. When the main entry word is used within the definition, it is printed in **boldface**. In the rare cases that a definition includes a word that is not in the dictionary, that word appears in *italics*.

### mouth-piece (mouth-peess) **noun**

1. The part of a telephone that you talk into.
2. The part of a musical instrument that you blow over or into. *See bagpipes, recorder, saxophone.*
3. (*informal*) Someone who acts as a spokesperson for an individual or a group.

### prog-ress

1. (*pruh-gress*) **verb** To move forward or to improve. *How are you progressing with your fitness program?* ▷ progresses, progressing, progressed
2. (*prog-ruhss*) **noun** A forward movement or improvement. *The teacher saw some progress in the student's work.*
3. (*prog-ruhss*) If something is **in progress**, it is happening. *Road construction will be in progress all this week.*

### rap (rap)

1. **verb** To hit something sharply and quickly. *Bettina rapped on the window.* ▷ **noun rap**
2. **noun** A type of song in which the words are spoken in a rhythmical way to a musical background. ▷ **noun rapper** ▷ **verb rap**
3. **verb (slang)** To talk. *Rap sounds like wrap.* ▷ **verb rapping, rapped**

**Part of Speech** labels usually appear on the first lines of entries. However, if a word's part of speech changes from one meaning to the next, the part of speech label starts each new meaning. When a meaning shows the word as part of a common phrase or idiom, no part of speech is given.

**Cross References** tell you where to turn in the dictionary for a picture of, or more information about, the main entry word.

### Sample Sentences

appear in *italics* after some of the meanings. These sentences show the word used in context. Captions, or sentences that explain what is shown in photographs and illustrations, also appear in *italics*.

### Related Words and Word Forms

appear at the end of an entry or at the end of a meaning. This dictionary also lists irregular plural forms with entry words that are nouns, -er and -est forms with adjectives, and -ed, -ing, and irregular forms with verbs.

**Homophones**, words that sound alike but have different spellings and meanings, are listed toward the ends of definitions.

vii

This page in the Overview explains what kind of information we find at each entry.

# Dictionary Page

## line ► literacy

### line (line)

1. **noun** A long, thin mark made by a pen, pencil, or other tool.
2. **noun** A row of people or words.
3. **noun** A long, thin rope, string, or cord, as in a fishing line.
4. **noun** A boundary, as in *the state line*.
5. **noun** A short letter. *Drop us a line when you get there.*
6. **noun** A wire or set of wires that connect points in a telephone or telegraph system.
7. **noun** A transportation system that runs on a specific route. *We need a new bus line in our neighborhood.*
8. **lines noun, plural** Words that you speak in a play. *Don't forget your lines.*
9. **noun** In mathematics, a set of points extending in a straight path without end in either direction.
10. **verb** To make a lining for something.
11. **noun** An attitude or approach to something. *My dad takes a firm line on discipline.*
12. **verb** To form a straight line. *Cars lined up at the gas station.*

► **verb** lining, lined

### lin-e-ar (lin-ee-ur) adjective

1. Using or having to do with lines, as in *a linear drawing*.
2. To do with length. Feet, miles, centimeters, and kilometers are linear measures.

### lin-en (lin-uhn) noun

1. Cloth made from the flax plant.
2. Household items, such as tablecloths and sheets, made of linen.
3. **noun** An official ball has gone over such as football, soccer.
4. To wait around. *The car lingered.* ► **lingering**.

5. **noun** Pasta cut into thin, ribbon-like pieces.
6. **noun** Someone who studies well.
7. A layer or coating that is applied, as in the lining of a coat.

8. **noun** Rings that make up a chain.

9. **noun** A connection between things or people.
10. **verb** To join objects, ideas, or people together. ► **linking**, **linked**

11. **li-no-le-um** (luh-noh-lee-uhm) **noun** A material with a strong, shiny surface and a canvas or

cloth back. Linoleum is used as a floor covering most commonly in kitchens.

12. **lin-seed oil** (lin-seed) **noun** Oil from the seed of certain flax plants used to make paints, varnishes, printing inks, patent leather, and linoleum. See **artist**.

13. **lint** (lint) **noun** Very small bits of thread or fluff from cloth.

14. **li-on** (lye-uhn) **noun** A large, light brown wildcat found in Africa and southern Asia. Male lions have manes.

15. **li-on-ess** (lye-uh-ess) **noun** A female lion.

### lip (lip) noun

1. Your **lips** are the fleshy edges of your mouth.
2. The edge or rim of a container or hole.
3. If you **keep a stiff upper lip** when something bad or frightening happens, you remain calm and not afraid.

4. **lip-read** **verb** When deaf or hearing impaired people **lip-read**, they watch someone's lips while the person is talking in order to understand what the person is saying. ► **lip-reading**, **lip-read**

### lip-stick (lip-stik) noun

1. A small, crayonlike stick used to color the lips.

2. **lique-fy** (lik-wuh-fye) **verb** To make something solid into a liquid. ► **liquefies**, **liquefying**, **liquefy**

3. **li-uid** (lik-wid) **noun** A wet substance that you can pour. ► **adjective** **liquid**

4. **liquid crystal display** **noun** A way of showing numbers and letters on clocks, calculators, etc. Different parts of a grid of liquid crystals reflect light as electronic signals are sent to them. Abbreviated LCD. See **calculator**.

5. **li-quor** (lik-ur) **noun** A strong alcoholic drink, such as whiskey, gin, or vodka.

6. **li-ra** (lihr-uh) **noun** The main unit of money in Italy and Turkey. ► **noun, plural** **lire** (lihr-uh)

7. **lisp** (lisp) **noun** A way of talking in which you say "th" instead of "s." ► **verb** **lisp**

### list (list)

1. **noun** A series of items, names, numbers, etc., often written in a particular order.
2. **verb** To put into a list. *Tim listed all of his chores for the day before leaving the house.*
3. **verb** When a ship **lists**, it leans to one side.

4. ► **verb** **listing**, **listed**
5. **lis-ten** (liss-uhn) **verb** To pay attention so that you can hear something. ► **listening**, **listened**

### ► **noun** **listener**

6. **li-ter** (lee-tur) **noun** A unit of measurement in the metric system. A liter is the amount held by a rectangular container 10 centimeters by 10 centimeters by 10 centimeters. A liter is about 1.1 quarts.

7. **lit-er-a-cy** (lit-ur-uh-see) **noun** The ability to read and write.

Then, use **Guide Words** at top of pages to see if the word is on that page.

First, use **Thumb Tabs** to guide you to the letter that starts the word.

Find bolded word "lion," listed alphabetically.

# Entry

**li·on** (lye-uhn) *noun* A large, light brown wildcat found in Africa and southern Asia. Male lions have manes.

This **entry** includes the bolded word **lion**, its **syllables**, its **pronunciation**, **part of speech** (noun) and a **brief definition**.

# Word Central Online Dictionary

## Slide 1

**Merriam-Webster** **WORD CENTRAL**

SEARCH: ☐ Dictionary ☐ Thesaurus ☐ Rhyming lion

**HOME** BUILD YOUR OWN DICTIONARY DAILY BUZZWORD GAMES FOR EDUCATORS BROWSE

**HOME**

Welcome to the new **Merriam-Webster's Word Central** now reprogrammed for superior word power and language fun.

Introducing...**Alpha-bot!** The word-spelling robot hosts the latest amazing word game and challenges spellers of all ages.

**Greetings younger humanoids!**

Please follow these word-to-word trajectories for the ultimate Word Central experience:

- Test your verbal sensors with two great games—**Robo-Bee** and **BIGbot**
- Share your own word creations and definitions at the turbo-charged **Build Your Own Dictionary**
- Give your vocabulary a growth spurt with **Merriam-Webster's Online Student Thesaurus**

... and once you've examined the nuts and bolts of our new design and content, [tell us what you think!](#)

Type word  
and click **GO**.

# Word Central Online Dictionary

## Slide 2

The screenshot shows the Merriam-Webster Word Central website. At the top is the Merriam-Webster logo and the title 'WORD CENTRAL'. Below this is a search bar with the word 'lion' entered and a 'GO' button. A navigation bar contains links: HOME, BUILD YOUR OWN DICTIONARY, DAILY BUZZWORD, GAMES, FOR EDUCATORS, and BROWSE. The 'STUDENT DICTIONARY' section displays the entry for 'lion'. The entry includes the main entry 'li·on' with a speaker icon, the pronunciation 'ˈlī-ən', the function 'noun', and the inflected form 'plural lion or lions'. A brief definition follows: ': a large flesh-eating mammal of the cat family that has a brownish buff coat, a tufted tail, and in the male a shaggy mane and that lives in open or rocky areas of Africa and formerly southern Asia'. Below the definition is the phrase '- li·on·like' with a speaker icon and the word 'adjective'. A link '[lion illustration]' is provided. At the bottom of the entry is a link 'Pronunciation Symbols'. Three red dashed boxes with arrows point to specific features: one points to the speaker icon next to the main entry, another points to the brief definition, and a third points to the '[lion illustration]' link.

Merriam-Webster

# WORD CENTRAL

SEARCH: ☒ Dictionary ☐ Thesaurus ☐ Rhyming lion

HOME BUILD YOUR OWN DICTIONARY DAILY BUZZWORD GAMES FOR EDUCATORS BROWSE

## STUDENT DICTIONARY

One entry found for lion.  
Main Entry: **li·on**   
Pronunciation: ˈlī-ən  
Function: *noun*  
Inflected Form(s): *plural lion or lions*  
: a large flesh-eating mammal of the cat family that has a brownish buff coat, a tufted tail, and in the male a shaggy mane and that lives in open or rocky areas of Africa and formerly southern Asia  
- **li·on·like** /-, ˌlɪk/ *adjective*  
[\[lion illustration\]](#)  
[Pronunciation Symbols](#)

**Listen to or read pronunciation.**

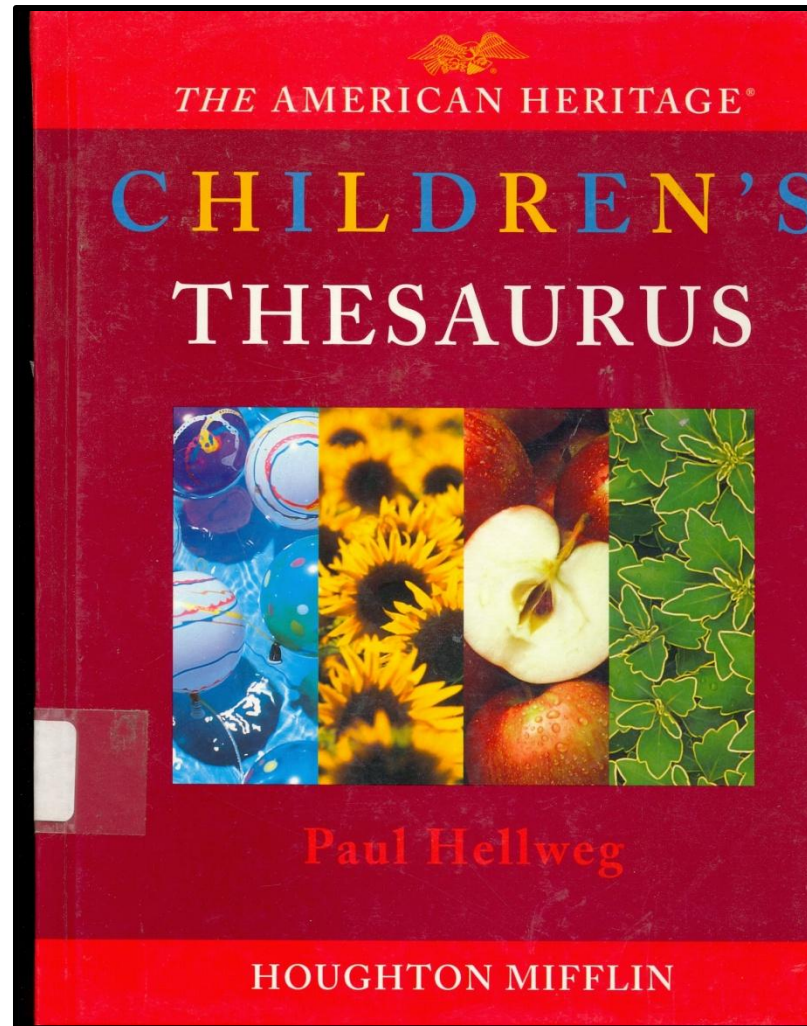
**Read brief, one sentence **definition** of lion.**

**Click to see illustration.**

# THESAURUS

- A thesaurus provides many **synonyms** and **antonyms** for words.
- Synonyms mean the **same**; antonyms mean the **opposite**.
- **Related words** mean something **similar**; **near antonyms** mean something **not similar**.
- Writers use a thesaurus to find **interesting** or **different** words to use.

# PRINT THESAURUS



**cold** *adjective* 1. ♦ chilly, cool, icy ♦ frigid, frozen A glass of *cold* lemonade tastes wonderful on a hot summer day. 2. ♦ aloof, unfriendly ♦ haughty The losing boxer gave the judges a *cold* stare. —*noun* 1. ♦ chill, coldness, coolness, iciness ♦ freeze When I went outside without my jacket, I shivered in the *cold*. 2. ♦ illness, fever, sickness, virus Sean had to stay home from school because he had a bad *cold*.

**collapse** *verb* ♦ buckle, cave in, crumple, topple ♦ fall The cheap lawn chair *collapsed* when I sat on it. —*noun* ♦ cave-in ♦ breakdown, disintegration, failure No one knew what caused the tunnel's sudden *collapse*.

**colleague** *noun* ♦ associate, coworker, partner ♦ aide, comrade Mom says that what she enjoys most about her job is the friendliness of her *colleagues*.

**collect** *verb* 1. ♦ accumulate, amass, gather ♦ assemble Ever since Dad quit smoking, his old pipes have been *collecting* a lot of dust. 2. ♦ acquire, obtain, raise, secure The government *collects* money through taxes.

**collection** *noun* ♦ accumulation, hoard, mass, stockpile We have a huge *collection* of old magazines down in our basement.

**collide** *verb* ♦ bump, crash, hit, slam, smash, strike The basketball players *collided* when they both ran toward the ball.

**collision** *noun* ♦ accident, crash, impact, smashup, wreck When Mom saw the car coming straight at us, she swerved away in order to avoid a *collision*.

**color** *noun* ♦ hue, shade, tinge, tint, tone My favorite *color* is purple. —*verb* ♦ dye, paint, stain, tinge, tint Daniel *colored* two dozen eggs last Easter.

**colorful** *adjective* ♦ bright, vivid ♦ gaudy, loud Jason likes to wear *colorful* plaid shirts.

♦ best choices  
♦ other choices

**combat** *verb* ♦ battle, fight, struggle against ♦ oppose, resist Our mayor says that her top priority is to *combat* poverty. —*noun* ♦ battle, war ♦ conflict, fight, struggle The Air Force's newest jet fighter has not been tested in *combat*.

**combine** *verb* ♦ blend, mix ♦ join, merge, unite If you *combine* blue and yellow paint, you'll get green.

Antonyms
<b>combine</b> <i>verb</i>
detach, divide, segregate, separate, split, sunder

**come** *verb* 1. ♦ approach, go to, move to ♦ advance, near Please *come* to the front of the class when I call your name. 2. ♦ appear, arrive, show up ♦ reach My school bus *comes* at seven o'clock in the morning. 3. ♦ fall, happen, occur ♦ develop Christmas *comes* only once a year. 4. ♦ arise, issue, originate, spring My friend Olaf *comes* from Norway.

**comfort** *verb* ♦ console, soothe ♦ ease, pacify, relieve Whenever I'm feeling bad, my friends try to *comfort* me. —*noun* 1. ♦ aid, help, relief, solace, support It's a real *comfort* to have my sister around the house when Mom and Dad are away. 2. ♦ luxury ♦ contentment, pleasure, satisfaction It's possible to camp in *comfort* if you have the proper equipment.

**comfortable** *adjective* 1. ♦ cozy, snug ♦ pleasant, pleasurable, satisfying Cool autumn nights really make me appreciate my warm and *comfortable* bed. 2. ♦ calm, easy, relaxed ♦ contented, serene Elizabeth didn't feel *comfortable* the first time she flew on a plane.

**comical** *adjective* ♦ amusing, funny, humorous, laughable ♦ ridiculous My puppy is *comical* when he chases his tail.

**command** *verb* 1. ♦ bid, direct, order ♦ demand, require The king *commanded* his knights to defend the realm. 2. ♦ head, lead

cold • command

Use guide words at top to locate word "colorful."

Bolded entry words are in alphabetical order.

This thesaurus gives the part of speech and provides many synonyms.

# WORD CENTRAL ONLINE THESAURUS

## SLIDE 1

The screenshot shows the Merriam-Webster Word Central website. At the top, the Merriam-Webster logo is on the left, and a large blue banner with the text "WORD CENTRAL" is on the right. Below the banner is a search bar with three radio buttons: "Dictionary", "Thesaurus" (which is selected), and "Rhyming". The word "colorful" is entered in the search field, and a "GO" button is to the right. Below the search bar is a navigation menu with links: "HOME", "BUILD YOUR OWN DICTIONARY", "DAILY BUZZWORD", "GAMES", "FOR EDUCATORS", and "BROWSE".

Below the navigation menu, the "HOME" section is visible. It includes a welcome message, an introduction to "Alpha-bot", and a section titled "Greetings younger humanoids!" with a list of activities. A small cartoon character is next to the list. At the bottom of the page, there is a link to "tell us what you think!".

Two blue callout boxes with dashed borders provide instructions:

- A box on the left says "First, click on Thesaurus." with an arrow pointing to the "Thesaurus" radio button.
- A box on the right says "Then, type word and click GO." with an arrow pointing to the search field and another arrow pointing to the "GO" button.

**HOME**

Welcome to the new Merriam-Webster Word Central. It's a place where you can explore the power and language fun.

Introducing... **Alpha-bot**! The word-speller challenges spellers of all ages.

**Greetings younger humanoids!**

Please follow these word-to-word trajectories for the ultimate Word Central experience:

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- Give your vocabulary a growth spurt with Merriam-Webster's Online Student Thesaurus

... and once you've examined the nuts and bolts of our new design and content, [tell us what you think!](#)

# WORD CENTRAL ONLINE THESAURUS

## SLIDE 2

**Merriam-Webster** **WORD CENTRAL**

SEARCH: ☐ Dictionary ☒ Thesaurus ☐ Rhyming colorful

[HOME](#) [BUILD YOUR OWN DICTIONARY](#) [DAILY BUZZWORD](#) [GAMES](#) [FOR EDUCATORS](#) [BROWSE](#)

### STUDENT THESAURUS

One entry found for **colorful**.  
Entry Word: **colorful**  
Function: *adjective*

Text: marked by a variety of usually vivid colors <the *colorful* robes and blankets of the Native Americans of the Southwest>

**Synonyms** motley, multicolored, polychromatic, polychrome, varicolored, variegated  
**Related Words** brave, bright, brilliant, gay; flashy, garish, gaudy, loud, showy, splashy; deep, rich, unbleached; checkered, dotted, plaid, striped; colored, pigmented; dappled, shaded; marbled, mottled, piebald, pied, pinto; flecked, spotted, streaked; specked, speckled; banded, barred, brindled (*or* brindle)  
**Near Antonyms** achromatic; bleached, decolorized, faded, washed out; dull, faint, gray (*also* grey), neutral, pale, pallid  
**Antonyms** colorless; monochromatic, solid

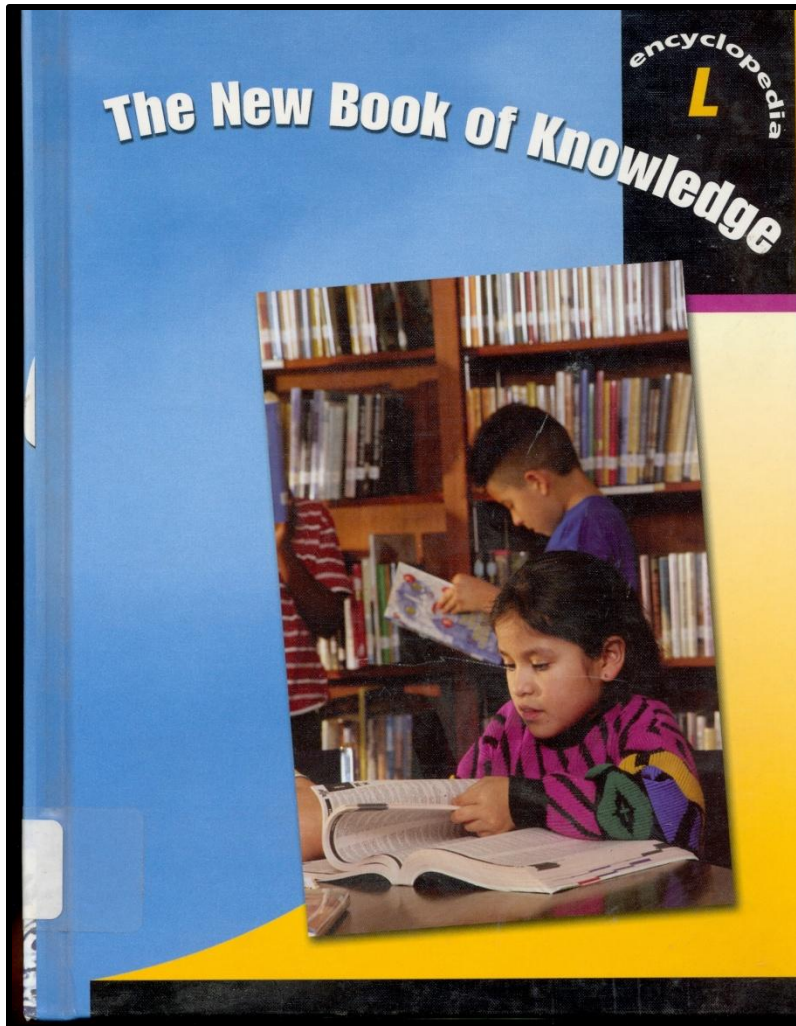
Find Synonyms,  
Related Words,  
Near Antonyms  
and Antonyms for  
word “colorful.”

# Encyclopedia

- Encyclopedias **explain** a topic.
- They provide **more** information about a topic than a dictionary.
- Encyclopedias provide **paragraphs** of information about a topic.
- These paragraphs of information on a topic are called “**Articles.**”

# The New Book of Knowledge

## Print Encyclopedia



This print encyclopedia covers **all subjects** of knowledge in many **volumes**.

Each volume covers topics that start with the **letter** you see at the top right corner. Look up topics beginning with the letter “L” in this volume.

You can also see this **letter** on the **spine** of the book.

# The New Book of Knowledge Print Encyclopedia Volume L

## LIONS

Lions are very large, strong cats. The male lion may weigh 400 pounds (180 kilograms) or more. The female weighs less—usually no more than 300 pounds (135 kilograms).

Male lions are the only members of the cat family that have manes. The mane is usually the same color as the coat, but it can be black. Both male and female lions have a tuft of dark hair at the end of their tails. Inside this hair is the so-called claw—a tough patch of skin at the tip of the tail. No one knows what function this serves, if any, but no other cat has it.

Lions are meat eaters, and they are well suited to a life of hunting. They can run fast for short distances—up to 40 miles (65 kilometers) an hour when charging prey. They have powerful muscles for leaping. Their sharp, hooked claws are dangerous weapons. Like other cats, a lion can retract its claws and walk very quietly on the soft pads of its feet.

Like the rest of the cat family, lions hunt mostly at night. But unlike most other cats, lions hunt in groups. Zebras and antelopes are their favorite prey. Males and females often work together. The females may lie hidden, waiting quietly while the males round up the prey. The males drive the antelopes or other animals toward the females. When the antelopes are nearby, the females spring out

and attack. When a kill is made, the lions usually feed from it for several days. When they have used up their food, they make a new kill. Lions kill only for food or when defending themselves or their young.

Young lions, or cubs, are born about three and a half months after the parents have mated. From two to six cubs are born at one time. They are about the size of small house cats and are spotted and striped. When half grown, lions are good climbers. But as they grow older and heavier, they rarely climb.

Young lions grow quickly. At the end of a year, their spots have faded or disappeared completely. Now they begin to make their own kills. In two years they mate and start to raise families. Their manes begin to grow when they are about 3.

Lions once lived in parts of Europe, Africa, and Asia. Today they are found only on open plains and grasslands in protected areas of Africa south of the Sahara and in a wildlife sanctuary in northwest India. The Indian lions are an endangered species.

Reviewed by ROBERT M. MCCLUNG  
Author, science books for children

See also CATS, WILD.

LIPINSKI, TARA. See OLYMPIC GAMES (Profiles).

LIPPMANN, WALTER. See JOURNALISM (Profiles).

LIPREADING. See DEAFNESS.

Lions are social animals and live in groups called prides. A pride consists of one to four males and many females and cubs. Only the females stay with the pride for life.



Use the **Guide Word** at the top left to help you locate an **article** in a print encyclopedia.

This article on **lions** gives **details** about its body and life in many paragraphs.

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# The New Book of Knowledge Print Encyclopedia Volume L Index

A print encyclopedia provides an **Index** at the end of each volume, or in a separate Index Volume to help you locate articles.

# The New Book of Knowledge

## Print Encyclopedia Index Topic

**Lions**    **L:252**

cats, wild    **C:144, 145, 146, 147, 148, 149–50**

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*picture(s)*    **A:53; C:141, 144, 145, 146, 148; L:252**

fur    **C:149**

playing cubs    **P:334**

in zoo    **Z:392**

The index topic **Lions** is bolded. The **Volume:Page** where you would find that topic is also bolded. Topics **related** to lions are indented below with their volumes and pages given.

# World Book Kids Online Encyclopedia

Slide 1.

The screenshot shows the homepage of the World Book Kids Online Encyclopedia. At the top, there is a blue header with the "WORLD BOOK" logo and a "Site Map | Help" link. Below this is a "Kids" banner with colorful stars. A navigation bar contains links for "Home", "Maps", "Dictionary", and "Pictures". The main search area features a "Search it" label, a text input field containing the word "lion", and a green "GO" button. A green arrow points from the "GO" button to the search bar. Below the search bar, there are several category tiles: "People", "Plants and Animals", "Places", "History and Government", "Science and Mathematics", "Arts", "World Religions", and "Sports and Hobbies". A large "World of Animals" section is prominently displayed in the center, featuring a video player with a lion. To the right of the "World of Animals" section is a vertical sidebar with links for "Activities", "Make it", "Think it", "Be it", and "Teach it!". At the bottom, there is a section titled "Switch to another World Book Site" with links to "WORLD BOOK DISCOVER", "WORLD BOOK ADVANCED", "WORLD BOOK STUDENT", "WORLD BOOK HALLAZGOS", "WORLD BOOK DIGITAL LIBRARIES LIVING GREEN", and "WORLD BOOK DIGITAL LIBRARIES Inventions = Discoveries".

Type search term and click GO.

# World Book Kids Online Encyclopedia

## Slide 2.

The encyclopedia article on lions gives **details** about its body and life in many paragraphs.

[People](#) [Places](#) [Science and Mathematics](#) [World Religions](#) [Plants and Animals](#) [History and Government](#) [Arts](#) [Sports and Hobbies](#)

[Article Content](#) [Back](#)

[Introduction](#)

[More information](#)

[Citation](#)

[Information](#)

[Related Web Sites](#)

[Play it](#)

Lions get their food by

- [Swimming](#)
- [Hunting](#)
- [Wrestling](#)

[Print](#) [E-mail](#) [Save](#)  
[Translate this text](#) [Hear text read aloud](#)  
Double Click to define a word

### Lion

Lions are big, powerful animals. They are probably the most famous animals in the cat family. Lions are called the "king of beasts" because of their beauty and power.

Lions are very strong. Full-grown male lions are about 9 feet (3 meters) long from nose to tail. They have manes, or long thick hair that covers the head and neck. Females have no manes.

Most lions live on grassy plains in the middle and southern parts of Africa. Their color helps them hide. Their fur is brownish yellow, the same color as dry grass. A few lions live in the Gir Forest in India.


More than any other cats, lions like company. They live together in a group called a pride. Each pride has several grown males, several females, and their cubs (young). Their life is usually quiet. They spend most of the day sleeping or resting. Male cubs are chased away from the pride when they are about 2 years old. In time, some of them take over a pride of their own.

Females have their first cubs when they are 3 or 4 years old. The cubs are born blind and helpless. They live on their mother's milk for the first six weeks. Then they begin eating meat. By the time they are about 2 years old, they hunt for themselves.


Lions hunt to live. They prefer large animals, such as antelope, buffalo, and zebras. Most of the animals they hunt run faster than the lions can. So lions surprise their prey. They creep up on it slowly. Then they rush at it, grab it, and pull it down. Sometimes several lions work together. They circle around an animal and chase it toward other lions that are hiding in the grass, waiting for it.

People are a lion's worst enemy. Some people kill lions to protect their farm animals. For hundreds of years, many people have also hunted lions as a sport.


In the Gir Forest of India, people have destroyed areas where lions live by cutting down trees. Africa has many wildlife parks where lions may not be hunted. Most people today would rather photograph lions than shoot them.




[Picture](#)  
[Lion](#)



[Video](#)  
[Lionesses](#)



[Picture](#)  
[Lioness chasing a zebra](#)

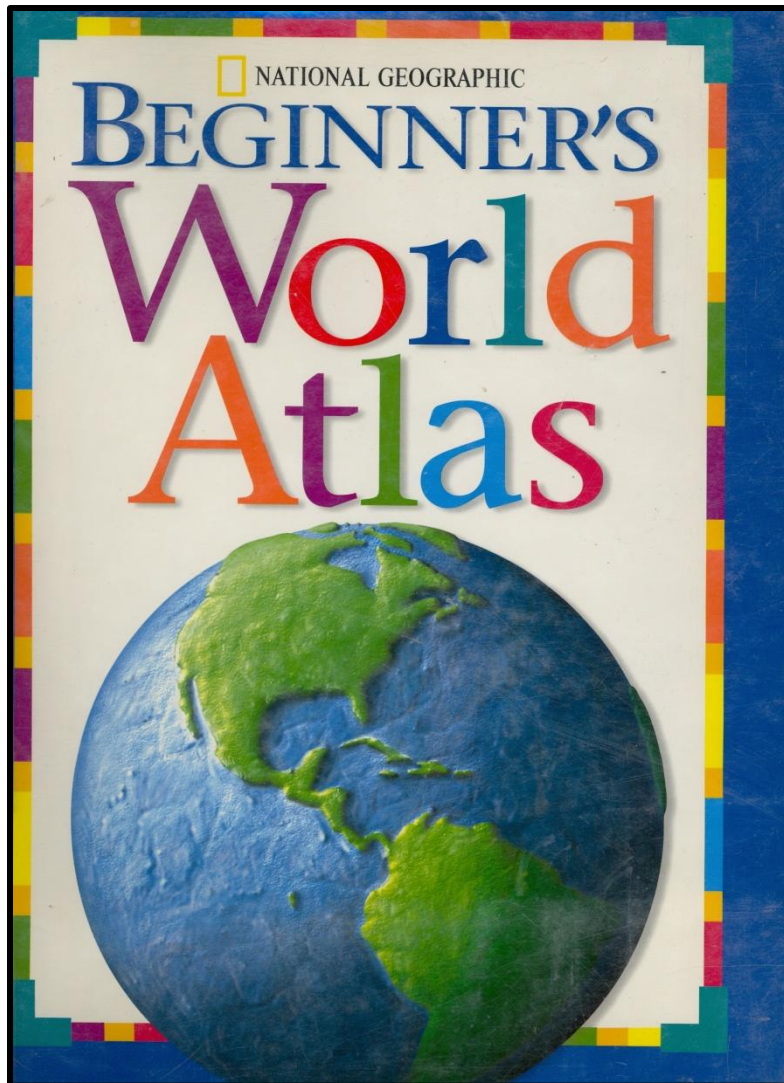


[Video](#)  
[Lions](#)  
[camouflaged](#)

# Atlas

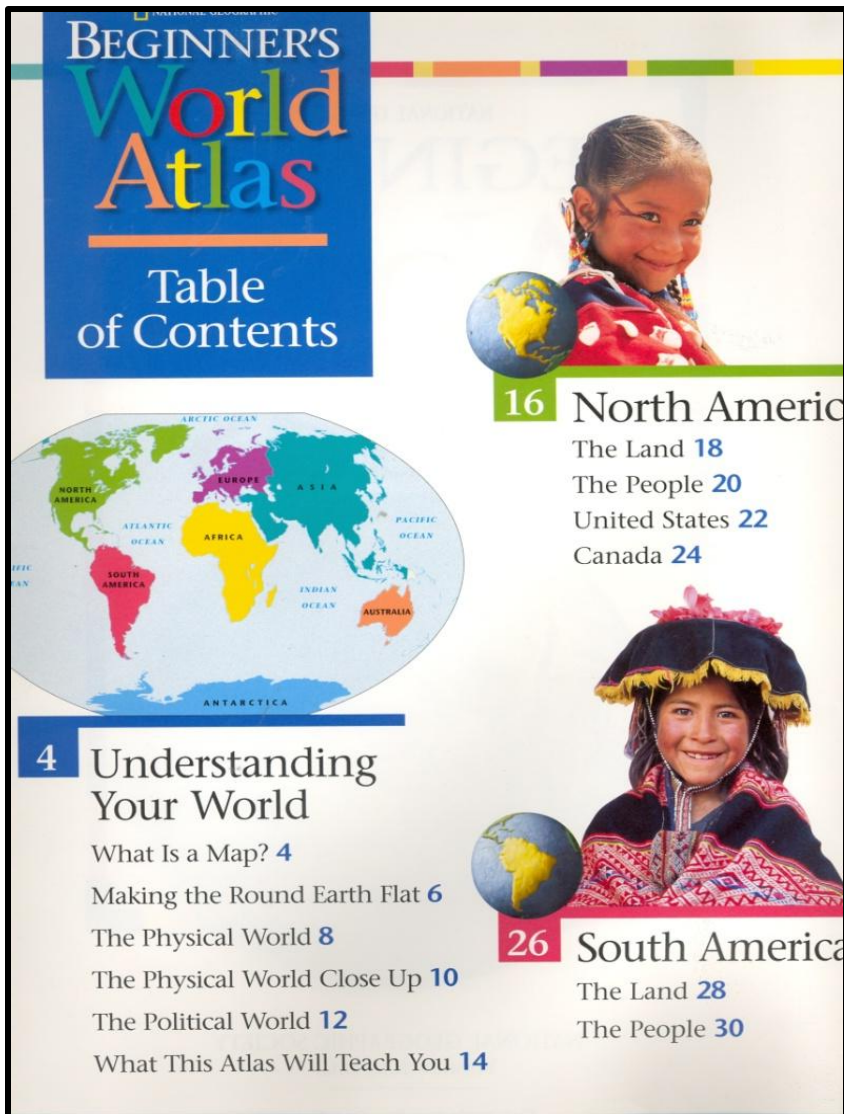
- An atlas provides **maps**.
- Maps show **where** things are in the world.
- **Physical** maps show mountains, rivers, deserts, etc.
- **Political** maps show countries, states, provinces and cities, etc.
- **Special** maps show: populations, natural resources, products, etc.

# Print Atlas



This **print atlas** provides **maps** of the world, the continents, major countries and the states.

# Contents Page



Readers use the **Contents Page** in this print atlas to locate maps and information.

# Index

Pictures and the text that describes them have their page numbers printed in **bold** type.

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# Index

Readers can also use the **Index** in this print atlas to locate maps and information.

# Physical Map

This physical map of **North America** shows the physical features – mountains, deserts, rainforests, grasslands, etc. of that continent.



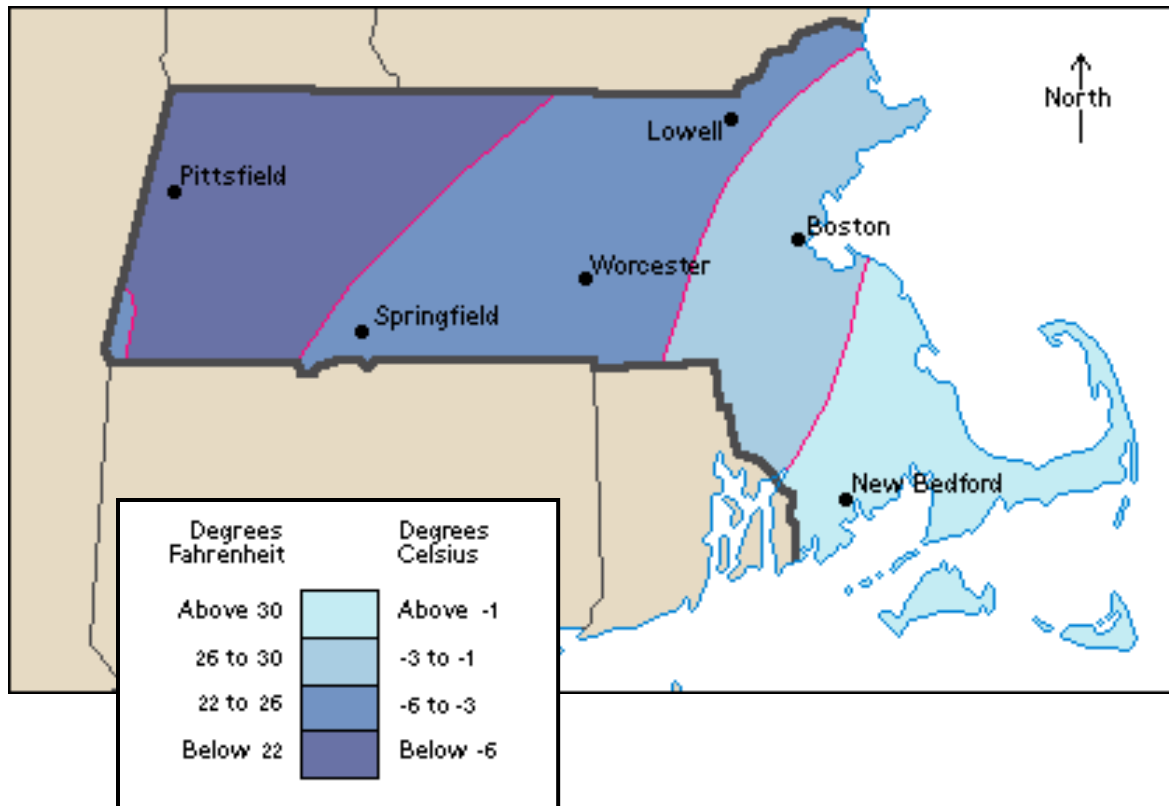
# Political Map



This **political** map of **North America** shows its countries and their borders.

This map is followed by other maps that show details of the countries of North America.

# Special Map – Average MA Temperatures in January



Atlases include **special maps** that show natural resources, population, rainfall, temperatures, etc.

# Fact Monster Online Resource



Fact Monster is a very helpful online reference resource.

At Fact Monster's home page, click on **Atlas** at the Reference Desk.

# Fact Monster Online Atlas

## World Atlas & Map Library

Click on a region below for a more detailed map, or try our [map index](#).



Map View: Robinson Projection



**Map Library:** [Map Index](#) · [Printable U.S. Maps](#) · [Country Maps](#) · [U.S. State Maps](#)



**World:** [Country Profiles](#) · [Flags](#) · [World Stats and Facts](#)



**United States:** [State Profiles](#) · [Cities](#)



**Tools:** [Distance Calculator](#) · [Latitude-Longitude Finder](#)



**Geography Fun:** [Crossword Puzzles](#) · [Quizzes](#)

### Geography Guide

- [Geography Glossary](#)
- [World Geography](#)
- [U.S. Geography](#)
- [Time Zones](#)
- [Explorers](#)
- [Everest Almanac](#)
- [Highest Mountains](#)
- [Oceans & Seas](#)
- [Earthquakes](#)
- [Travel Statistics](#)
- [More Geography Resources](#)

Fact Monster's **World Atlas** allows you to click on a region for more detailed maps. You can “**drill**” down to see details of smaller regions. (See *following slides.*)

You can also use the **Map Index** to find places.

# Map: North America

[North America Profile](#): History · Government · Economy · Population ...



## North America Information

**Encyclopedia:** [North America](#)

In-depth entries covering: Economy, Government, History, Land & People

**More on North America:** [Oceans and](#)



[World Atlas](#) · [Map Index](#)

After clicking on “North America” at the World Map, you see this map of North American countries.



See also: [Links to state maps below](#)

## United States Information

### Almanac: [United States](#)

Up-to-date information on: Government, Economy, Population & Culture

### Encyclopedia: [United States](#)

In-depth entries covering: Economy, Government, History, Land & People



[North America Map](#)

After clicking on “United States” at the North America map, you see this map of all the states.

# Map: Massachusetts

[Massachusetts Profile](#): History · Government · Economy · Population ...

Travel to [Massachusetts](#) · [Boston](#) · [Cape Cod](#) · [Nantucket](#)

Unbiased reviews and great deals from *Trip Advisor*



## Massachusetts Information

### **Almanac:** [Massachusetts](#)

Up-to-date information on: Government, Economy, Population & Culture

### **Encyclopedia:** [Massachusetts](#)

In-depth entries covering: Economy, Government, History, Land & People



[United States Map](#)

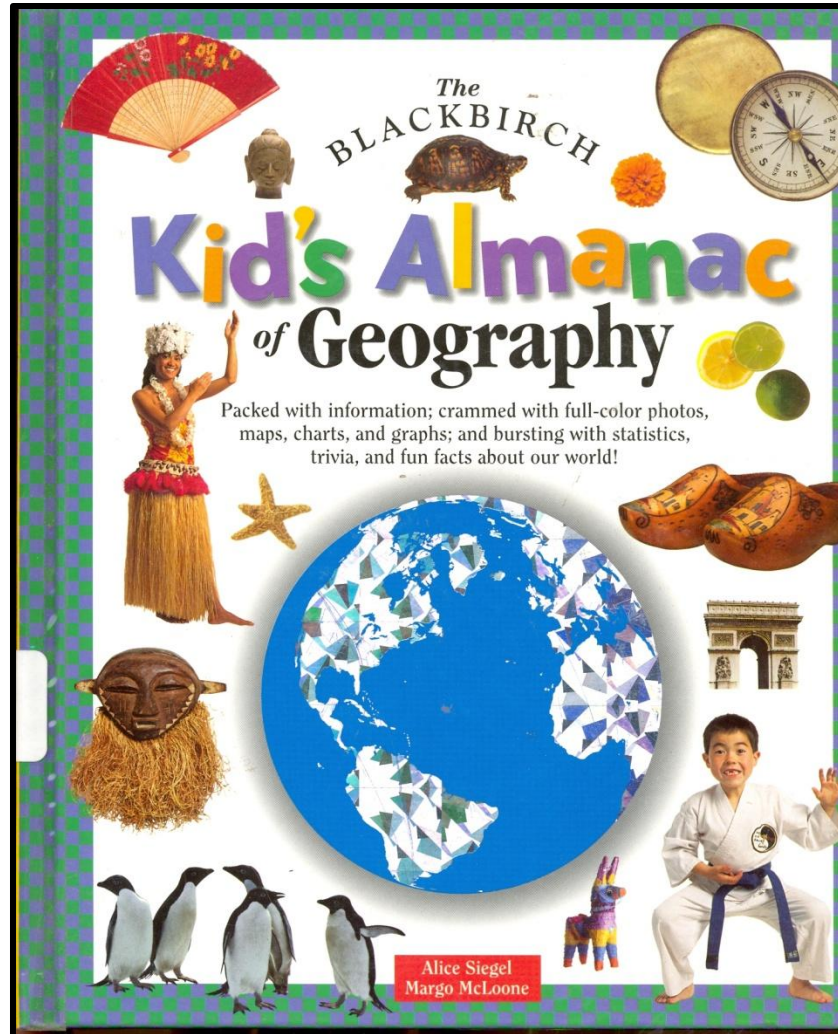


After clicking on “Massachusetts” at the United States map, you see this map of that state.






# Almanac

- An almanac provides **current**, statistical information and facts on hundreds of topics.
- **Statistical information** has lots of numbers.
- Most information in an almanac is in **tables, lists** and **charts**.
- Readers can easily read and **compare** information in tables, lists or charts.
- Almanacs are **updated** frequently.
- Some almanacs cover **all** knowledge; some cover certain **subjects**, like geography.

# Print Almanac



# Print Almanac Contents Page

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	<b>Cash Flow (World Money)</b> 22
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The **Contents Page** in a print almanac helps readers to locate **subjects** or smaller **topics** of interest.

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## Print Almanac Index

The **Index** in a print almanac helps readers to locate **topics** of interest.



### COUNTRIES WITH THE MOST PEOPLE

1. China	1.23 billion
2. India	970 million
3. United States	268 million
4. Indonesia	204 million
5. Brazil	160 million
6. Russia	147 million
7. Pakistan	138 million
8. Japan	126 million
9. Bangladesh	122 million
10. Nigeria	107 million

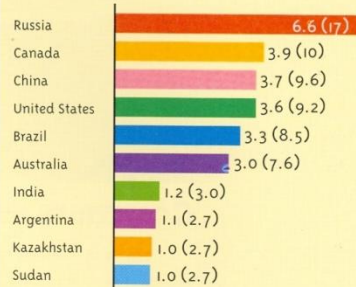


India is expected to surpass China as the most populous country by the year 2050.

Key	
Inhabitants per square mile	Inhabitants per square kilometer
Under 2	Under 1
2-25	1-10
25-60	10-25
60-125	25-50
125-250	50-100
Over 250	Over 100

### COUNTRIES WITH THE MOST LAND

In millions of square miles/(kilometers)  
(area is rounded for comparison)



Source: CIA World Factbook



Canadian farmland

### WORLD POPULATION DENSITY

This page in a print almanac shows current statistical information about countries in a **bar graph**, **table**, and **special map**.

# Fact Monster Online Resource

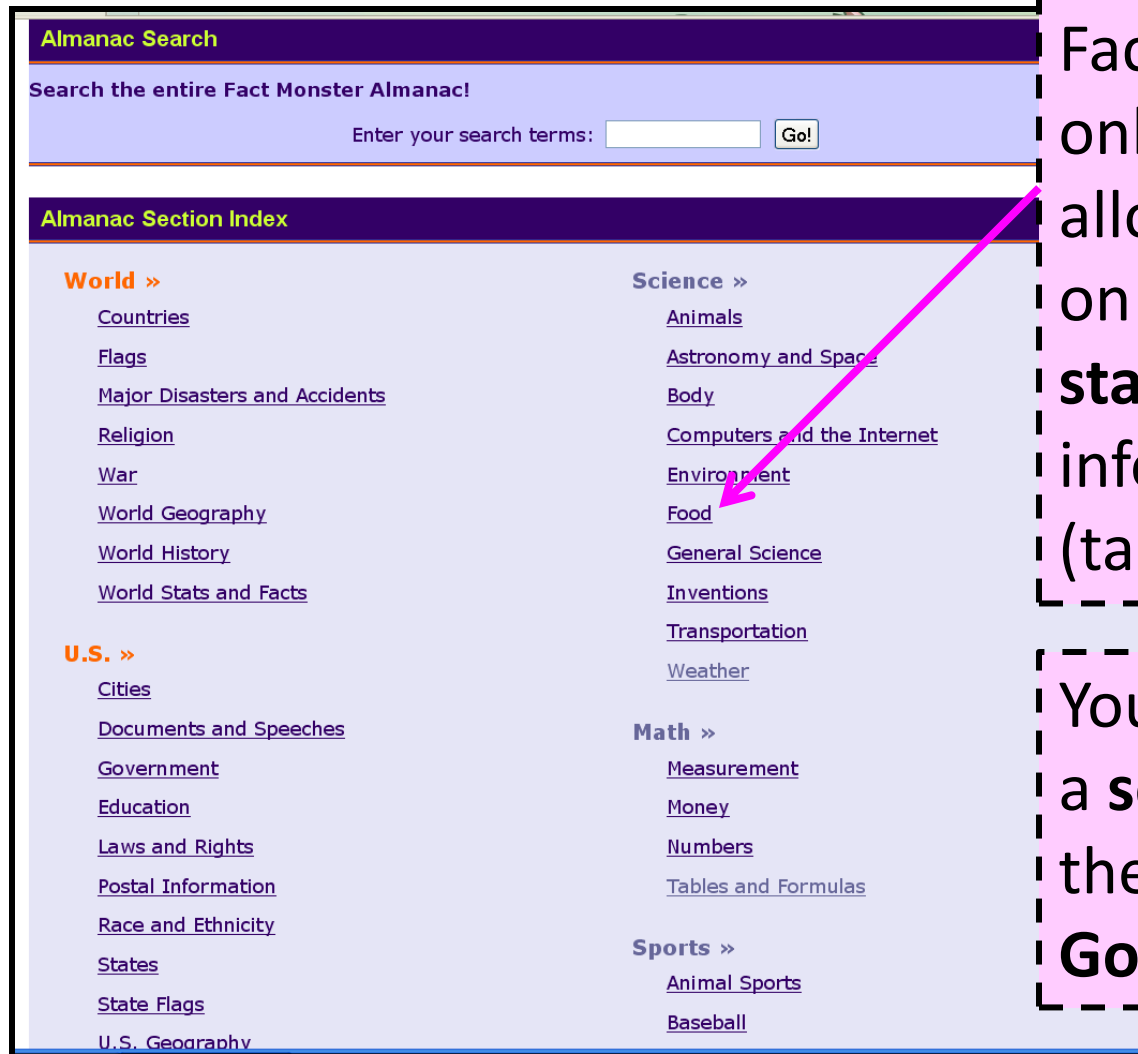


Fact Monster is a very helpful online reference resource.

At Fact Monster's home page, click on **Almanac** at the Reference Desk.

# Fact Monster – Online Almanac

## Slide 1.



The screenshot shows the Fact Monster website interface. At the top is a dark purple header with the text "Almanac Search" in yellow. Below this is a light blue search bar with the text "Search the entire Fact Monster Almanac!" and a search input field with a "Go!" button. Below the search bar is another dark purple header with the text "Almanac Section Index" in yellow. The main content area is light blue and contains two columns of links. The left column is titled "World »" and "U.S. »" in orange. The right column is titled "Science »", "Math »", and "Sports »" in blue. A pink arrow points from the "Food" link in the Science section to the search bar.

**Almanac Search**

Search the entire Fact Monster Almanac!

Enter your search terms:

**Almanac Section Index**

**World »**

- [Countries](#)
- [Flags](#)
- [Major Disasters and Accidents](#)
- [Religion](#)
- [War](#)
- [World Geography](#)
- [World History](#)
- [World Stats and Facts](#)

**U.S. »**

- [Cities](#)
- [Documents and Speeches](#)
- [Government](#)
- [Education](#)
- [Laws and Rights](#)
- [Postal Information](#)
- [Race and Ethnicity](#)
- [States](#)
- [State Flags](#)
- [U.S. Geography](#)

**Science »**

- [Animals](#)
- [Astronomy and Space](#)
- [Body](#)
- [Computers and the Internet](#)
- [Environment](#)
- [Food](#)
- [General Science](#)
- [Inventions](#)
- [Transportation](#)
- [Weather](#)

**Math »**

- [Measurement](#)
- [Money](#)
- [Numbers](#)
- [Tables and Formulas](#)

**Sports »**

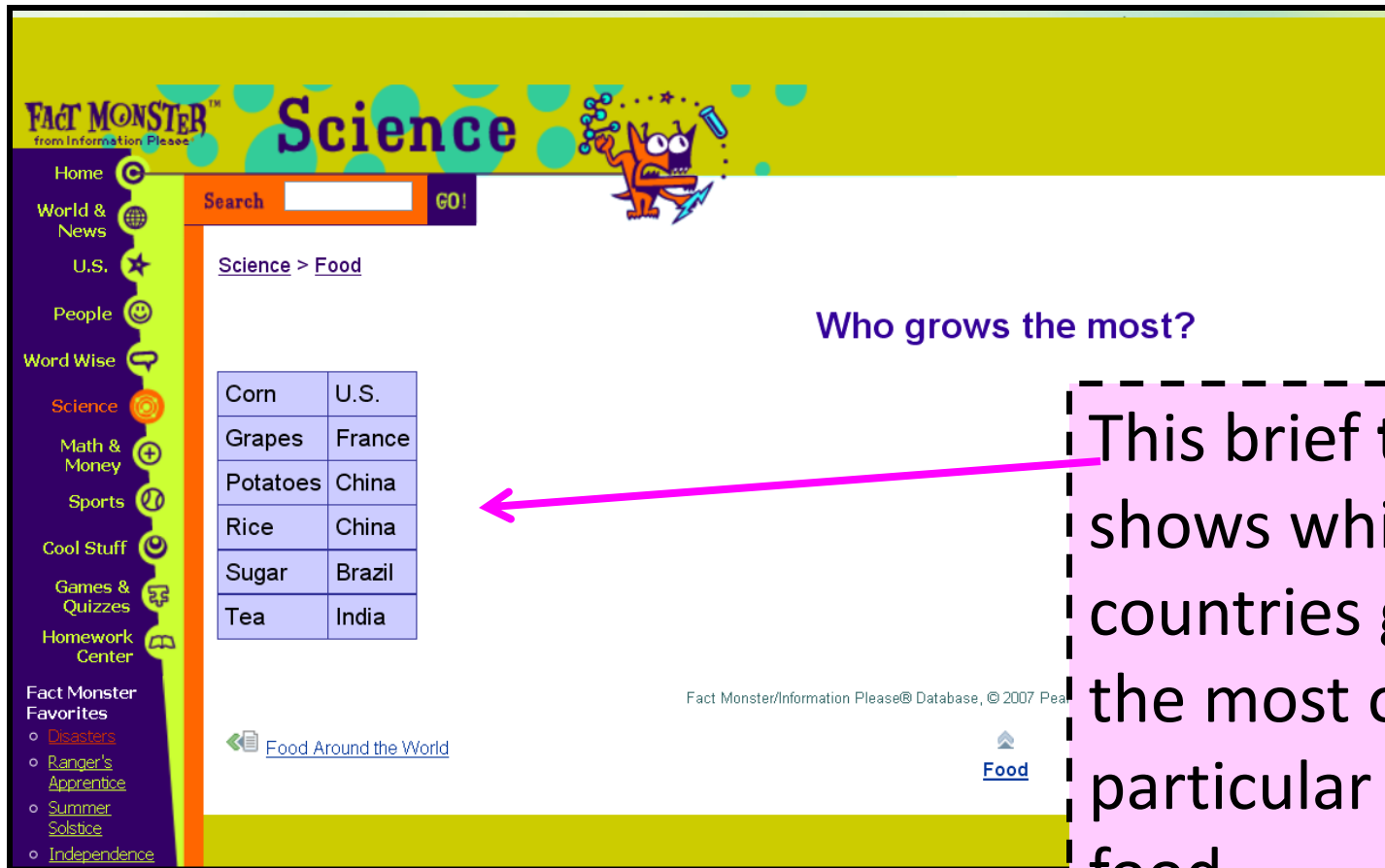
- [Animal Sports](#)
- [Baseball](#)

Fact Monster's online almanac allows you to click on **topics** to find **statistical** kinds of information (tables, charts).

You can also enter a **search term** in the box and click **Go!**

# Fact Monster – Online Almanac

## Slide 2.



The screenshot shows the Fact Monster website's Science section. A sidebar on the left contains navigation links: Home, World & News, U.S., People, Word Wise, Science (highlighted), Math & Money, Sports, Cool Stuff, Games & Quizzes, Homework Center, and Fact Monster Favorites. The main content area has a search bar and a 'GO!' button. Below the search bar, the breadcrumb 'Science > Food' is visible. The title 'Who grows the most?' is displayed above a table. The table lists various crops and the countries that produce the most of them. A pink arrow points from a text box on the right to the table.

Corn	U.S.
Grapes	France
Potatoes	China
Rice	China
Sugar	Brazil
Tea	India

Fact Monster/Information Please® Database, © 2007 Pearson Education, Inc.

[Food Around the World](#)

[Food](#)

This brief **table** shows which countries grow the most of a particular kind of food.

# Fact Monster – Online Almanac

## Slide 3.

[World and News](#) > [World Stats and Facts](#)

### Country Statistics at a Glance

Country rankings of the type presented below cannot pretend to be definitive; instead they aspire only to provide the reader with an approximation of the high and low ends on a particular scale. Country data vary enormously depending on the sources, and the absence of reliable data on some countries requires their omission, which further skews the results.

LARGEST COUNTRIES <sup>1</sup> (in sq mi):* 2008		
1.	<a href="#">Russia</a>	6,591,027
2.	<a href="#">Canada</a>	3,854,082
3.	<a href="#">United States</a>	3,717,727
4.	<a href="#">China</a>	3,704,426
5.	<a href="#">Brazil</a>	3,285,618
6.	<a href="#">Australia</a>	2,967,124
7.	<a href="#">India</a>	1,269,009
8.	<a href="#">Argentina</a>	1,068,019
9.	<a href="#">Kazakhstan</a>	1,048,877
10.	<a href="#">Sudan</a>	967,243

This table provides rankings of the ten largest countries by square miles.

# Conclusion

Use the reference resource that **best matches** your information need:

- **Dictionary**: for spelling, pronunciation, and brief definition of a word
- **Thesaurus**: to find synonyms for a word
- **Encyclopedia**: for longer explanation of a topic
- **Atlas**: for maps that show where things or places are located
- **Almanac**: for current, statistical information found in lists, tables or charts

# Sources Used

## Print Resources:

**National Geographic Beginner's World Atlas.** Washington DC:National Geographic Society, 1999.

**The New Book of Knowledge.** NY: Scholastic Inc., 2005

**Scholastic Children's Dictionary.** NY: Scholastic Inc., 1996.

Siegel, Alice and McClune, Margo. Inc. **Blackbirch Kid's Almanac of Geography.** Woodbridge, CT: Blackbirch Press, 2000.

## Online Resources:

*World Book Kids.* World Book, 2009. Web 19 Nov. 2009.

*World Central.* Merriam Webster. Web 19 Nov. 2009.

*Fact Monster.* Information Please. Web 19 Nov. 2009.