Explore the Inner Workings of the Human Body, Layer by Layer!

Improve your understanding of human anatomy and biology and test your knowledge with three exciting learning activities.

For ages 10 to Adult.

Includes EasyKey™ Keyboard Overlay
The fast, simple way to let your fingers do the learning!
From the slightest muscle contraction to the simple beating of the heart to the complexities of locomotion, our muscular system is just one of the many wonders of the human body. Now you and your family can uncover the body’s inner workings and improve your understanding of systems and organs, as well as their functions and locations.

A literal “visible body,” The Body in Focus is a scientifically-accurate, self-paced exploration into human anatomy in which you can discover how your body works. Three interactive learning activities provide in-depth coverage of major bones, organs and functions of the human body. Body Close-Ups allows you to peel away layer after layer to explore parts of the body in fine detail. Body Systems is a look into eight major body systems where you’ll actually observe the mechanisms behind breathing, eating, pumping blood, moving muscles, even sneezing! And Body I.Q. is an exciting knowledge game that lets you have fun testing what you know as you learn even more!

The EasyKey™ keyboard overlay makes The Body in Focus even more fun! Made of durable, flexible vinyl, it fits snugly over the computer keyboard to actually become the program menu! You can quickly select options, call up data and answer questions without ever having had any typing or computer experience. With the EasyKey, you determine where and when your investigations begin and end.

Developed by Neosoft, Incorporated.

Founded by award-winning professionals in industrial design, computer graphics, educational game development and electronics, Neosoft has pioneered a new concept in computer interaction. Their development of activities using their EasyKey keyboard overlay makes it easier than ever for families to explore new worlds of discovery with the computer.

EasyKey™ is CBS Software’s trademark for Neosoft NeoCover ™ products exclusively licensed to CBS Software. NeoCover ™ is a trademark of Neosoft, Inc. Patent Pending.

Overlay & Program © NEOSOFT INC. 1985. All Rights Reserved

Apple and IBM are registered trademarks of Apple Computer, Inc. and International Business Machines Corp., respectively. Commodore 64™ is a trademark of Commodore Electronics Ltd.

Made in U.S.A.

3L-0236

FEATURES:

EasyKey Keyboard Overlay
Eliminates barriers to computer use. Move from screen to screen throughout each activity at the touch of a button.

Self-Paced Learning System
Take as much or as little time as you want to review facts and concepts. Repeat a display or ask the program to tell you more!

High-Resolution Animated Color Graphics
The dynamic nature of the body vividly unfolds before your eyes as organs and features are examined in graphic detail. Learn where organs are located and see systems in action!

Eight Major Body Systems
Integumentary (skin), muscular, digestive, nervous, skeletal, respiratory, circulatory and endocrine.

Detailed Close-Ups
Delve even further into the layers of the human head, arm and torso.

Comprehensive Program Guide
Illustrates the structure and functions of the human body, including the reproductive system. Provides resource materials for independent study.

Limited 90-Day Warranty

The scientific data and graphic representations in The Body in Focus have been carefully reviewed by Saunders Software, a division of W.B. Saunders, one of the world’s most respected publishers of medical texts.
CBS Software values its customers and believes they should be aware of their rights, not merely ours, under the Copyright Law. To that end, we quote for the purchaser of this equipment the provisions of section 117 of that law, which contains limitations on the exclusive rights of copying and adaptation which that law gives, among other rights, to copyright owners of computer programs:

"Notwithstanding the provisions of section 106, it is not an infringement for the owner of a copy of a computer program to make or authorize the making of another copy or adaptation of that computer program provided:
(1) that such new copy or adaptation is created as an essential step in the utilization of the computer program in conjunction with a machine and that it is used in no other manner, or
(2) that such new copy or adaptation is for archival purposes only and that all archival copies are destroyed in the event that continued possession of the computer program should cease to be rightful.

Any exact copies prepared in accordance with the provision of this section may be leased, sold, or otherwise transferred, along with the copy from which such copies were prepared, only as part of the lease, sale, or other transfer of all rights in the program. Adaptations so prepared may be transferred only with the authorization of the copyright owner.

Subject to those limitations, the purchaser of this equipment is granted a paid up non-exclusive license to use its software on one host computer.

---

Explore the Inner Workings of the Human Body, Layer by Layer!
LOADING YOUR PROGRAM

FOR APPLE® II+ / IIe / IIc COMPUTERS
1. Insert Disk 1 into your disk drive and close the drive door.
2. Your program comes with two EasyKey keyboard overlays, one for the Apple II+ and one for the Apple IIe and IIc. Select the correct EasyKey and place it over your computer's keyboard.
3. Turn your computer and monitor on. Adjust the volume on the monitor.
4. When the title screen appears, locate the green START key and press it. You will hear a short tune, after which your program will start. If you hear a short buzz when you press START, you are using the wrong EasyKey.

FOR COMMODORE 64™ COMPUTERS
1. Insert Disk 1 into your disk drive and close the drive door.
2. Turn your computer, disk drive and monitor on. Adjust the volume on the monitor.
3. Type LOAD "CBS", 8 and press RETURN. Then type the word RUN and press RETURN again.
4. When the title screen appears, place the EasyKey keyboard overlay over your computer's keyboard.
5. Locate the green START key and press it. You will hear a short tune, after which your program will start.

FOR IBM® PC AND PCjr. COMPUTERS
Please refer to the enclosed reference sheet entitled "Loading Instructions."

THE BODY IN FOCUS

WELCOME TO THE BODY IN FOCUS™

Developed by Neosoft, Incorporated
Medical Consultants: Saunders Software
A Division of W. B. Saunders

This program guide will help you as you embark upon a fascinating in-depth examination of the human body, its systems and its functions. Scientifically accurate, graphically detailed activities help you to freely explore the human body and test your knowledge at your own pace.

THE BODY IN FOCUS is divided into two parts. Disk 1 contains Body Systems and Body Close-Ups, two activities that introduce you to major systems of the body and to the functions of their organs, glands and bones.

Disk 2 features Body I.Q., a randomly-generated quiz of 20 questions using elements of what you looked at on Disk 1. Each time you use it, your score will improve. You'll become a human body whiz kid in no time!

Program Disks

It is not necessary to use the disks in order. As a matter of fact, you may want to put what you already know to the test by starting off with Body I.Q. on Disk 2. See how well you do and then use Body Systems and Body Close-Ups to explore areas of the body about which you'd like more information. Then take a Body I.Q. test again and see how much your score has improved!

Each disk opens with an Activity Selection menu that lists all the activities in the program. This menu matches the activity keys on your EasyKey.

The EasyKey™ Keyboard Overlay

Included with THE BODY IN FOCUS is an EasyKey keyboard overlay designed to fit over your computer's keyboard. Never try to use the program without the EasyKey in place. Here are just some of its features:

- The green START key. For each disk, pressing the START key starts the program from the beginning.
- The name of each activity is indicated by a key on the EasyKey. Note that each one is a particular color and matches the color of the keys to be used within that activity. If you want to change activities, simply press any key that matches the color of the new activity (except for Body I.Q.; press the blue key labeled BODY I.Q.). You may do this at any time during the course of the program.
- The SOUND key is indicated by a note of music. Press this key at any time to turn the music on and off. This can be done even in the middle of a tune or melody.

TAKING CARE OF THE EASYKEY

The EasyKey keyboard overlay is made of tough, flexible vinyl. You can use it as often as you like, but you must treat it carefully to keep it in good condition.

- Keep the EasyKey away from sharp objects that may cut or puncture it.
- Keep the EasyKey away from heat and out of direct sunlight.
- Do not write on the EasyKey.
- If the EasyKey gets dirty, carefully wipe it with a damp cloth dipped in mildy soapy, lukewarm water.
- Return the EasyKey to the program storage case when you are not using it.

EasyKey™ is CBS Software's trademark for Neosoft Neocover™ products exclusively licensed to CBS Software. Neocover™ is a trademark of Neosoft, Inc.
Apple® and IBM® are registered trademarks of Apple Computer, Inc. and International Business Machines Corp., respectively. Commodore 64™ is a trademark of Commodore Electronics Ltd.
THE BODY IN FOCUS

THE BODY IN FOCUS ACTIVITIES

Each of the following activities is a self-contained, self-paced learning adventure. With the exception of Body I.Q. (which is limited to 20 randomly-generated questions each time it is selected), you may spend as much or as little time as you wish with each activity.

Body Systems

This activity consists of in-depth, animated explorations of eight major body systems. You'll observe how the body breathes, eats, hears, pumps blood, moves muscles and even sneezes!

The eight major body systems covered by the Body in Focus are:

INTEGUMENTARY MUSCULAR DIGESTIVE NERVOUS SKELETAL RESPIRATORY CIRCULATORY ENDOCRINE

To use Body Systems, decide upon which system you'd like to explore and press the appropriately labeled key on the EasyKey. Again, you determine the pace and the sequence at which you proceed. Within each system, you will use the following three red activity keys:

GO ON—Press this key to continue your investigations into that body system.

REPEAT—Press this key to instantly replay an animation sequence, pointer or effect, or to recap information.

TELL ME MORE!—Press this key when the screen displays an exclamation point (!) in the lower right-hand corner. This indicates that there is more information available about the specific fact, system or organ on the screen.

Some body system keys are linked to other red keys (for example, INTEGUMENTARY is linked to GOOSE BUMP). These other keys graphically demonstrate some of the more interesting functions of the body and operate only while exploring the specific body system they are linked to. The program itself will alert you as to when to press these keys.

INTEGUMENTARY SYSTEM

An integument is a coat, skin, shell, rind or other protective surface structure. When speaking about the human body, the integumentary system refers to the organs, glands and functions of our skin.

If the flashing cursor (used to point out system components) goes too quickly at first, just press REPEAT to see it again.

Be sure to press GOOSE BUMP several times to examine the "hair-raising" action of the follicle's muscle!

MUSCULAR SYSTEM

Remember, the exclamation point (!) in the lower right-hand corner means that there's more to see. Press TELL ME MORE!

Try continually pressing the BICEP and TRICEP keys one right after the other. You will see the action of the two muscles as they work against each other to move the arm.

DIGESTIVE SYSTEM

First, GO ON through the entire digestive process. After the fact that begins "Remaining material..." appears, press REPEAT. You'll see the entire digestive process animated in one uninterrupted cycle.

Watch for the many exclamation points (!).

NERVOUS SYSTEM

The action of the ear can be examined by pressing HIGH PITCH and LOW PITCH. Note that the higher the pitch, the faster the ear drum moves.

SKELETAL SYSTEM

The animated skeleton moves rather quickly, so press REPEAT a number of times to get a closer look at the action.

Press NEXT BONE and SHOW IT to discover the names and locations of many bones.

Body Close-Ups

Explore parts of the human body in finer detail, layer by layer! The three major body areas covered in this activity are:

HEAD ARM TORSO

To use Body Close-Ups, decide upon which area you'd like to explore and press the appropriately labeled blue key on the EasyKey. The selected area will "zoom up" for detailed inspection. You control the pace, order and depth of detail with the following four blue activity keys:

REVEAL—Press this key to peel away a layer to reveal the organs underneath.

CONCEAL—Press this key to restore a layer.

NEXT—Press this key to learn the names and positions of each of the organs and parts featured within a layer.

TELL ME MORE!—Press this key to uncover in-depth information about the organ indicated on the screen.

Use REVEAL and CONCEAL alternately to quickly compare the layers and positions of the organs in the body. This is especially helpful in the close-up of the torso, wherein you'll come away with a better idea of how the organs of the torso are situated within dimensions. For example, take note of how the rib cage surrounds the lungs, how the lungs surround the heart and how the liver is positioned diagonally over and around the stomach.

RESPIRATORY SYSTEM

Once again, press REPEAT during the breathing sequence to observe the complete cycle.

Press SNEEZE several times to study all the events that comprise a sneeze. Watch the vocal cords open and close, the lungs expand and compress, and the quick action of the tongue to seal off the mouth.

CIRCULATORY SYSTEM

Press REPEAT to quickly replay the entire circulation sequence.

Listen for the beat of the pumping heart coordinated with the action of the valves.

ENDOCRINE SYSTEM

Watch the graphics closely for the positions of the glands, each in a different color.

Body I.Q.

This activity allows you to test your overall knowledge of the human body. To achieve high scores, you'll be required to point out various parts of the body and answer multiple-choice questions.

To use Body I.Q., make sure Disk 2 is inserted in your disk drive and press the purple key labeled BODY I.Q. The computer will select a topic at random and display a graphic image to accompany the test. The computer may focus on a specific organ, such as the heart, or a general body system, such as the skeletal system.

You will then be asked to move the flashing cursor to point to a specific organ or feature of the body. Press the purple Arrow Keys to move the cursor in the desired direction. Then press ENTER to lock in your answer.

If you correctly point out the requested organ or feature, you earn five points. If you miss, try again. If you find it on your second attempt, you earn two points. If you still need help, the computer will show you the answer.

After this identification question, you'll be asked three multiple-choice questions on the topic. Press the purple letter keys, A, B and C, to indicate your answer. A correct answer on the first try earns you five points. If you answer incorrectly, the wrong answer is removed and you may try again, this time for two points. If you miss again, the correct answer is left on the screen, after which the next question will appear.

When you've completed all four questions within the first topic, the computer will select another one and the activity will continue. After five topics, you'll see your final score, plus a special message of congratulations (or consolation)! There are over 200 questions in all. And if a question ever does repeat, the order of the answer choices will be different every time.

At the end of this activity, the program returns to the Activity Selection menu. You may press BODY I.Q. again for another crack at it or change disks to use the other activities.

*Note: A few topics do not contain an identification question. In these cases, four multiple-choice questions will be given.
THE BODY IN FOCUS

ILLUSTRATION PLATES

Included with THE BODY IN FOCUS software program is a selection of illustrations based on plates prepared by the staff of W.B. Saunders, world renowned publisher of textbooks and reference materials for medical researchers and practitioners. These illustrations offer you the opportunity to learn even more about the structure and functions of the human body and also highlight many anatomical and systemic differences between the bodies of males and females.

RESPIRATORY SYSTEM AND HEART

Nasopharynx
Opening of auditory (Eustachian) tube
Uvula
Palatine tonsil
Epiglottis
Vocal cords
Thyroid cartilage
Cricoid cartilage
Tracheal cartilages
Visceral pleura
Parietal pleura
Right upper lobe of lung
Carina of trachea
Right main bronchi
Pulmonary trunk and arteries
Horizontal fissure
Aorta
Sup. vena cava
Right middle lobe
Bronchioles
Oblique fissure
Rib
Right atrium
R. lower lobe of lung
Intercostal muscles
Diaphragm
Inferior vena cava

Salivary glands
(mucus and digestive enzymes)

Parotid
Sublingual
Submandibular

Tooth
Tongue
Epiglottis
Trachea
Pharynx
Hyoid bone
Nasal cavity
Nasal turbinates
Nasal cartilage
Maxilla (hard palate)
Tongue
Thyroid cartilage
Cricoid cartilage
Left upper lobe of lung
Pulmonary veins
Left main bronchus

Diaphragm
Liver (bile)
Liver ducts
Cystic duct
Gall bladder
Bile duct opening
Duodenum (behind colon)
Transverse colon
Ascending colon
Cecum
Appendix

Stomach
Spleen
Pancreatic duct
Pancreas
Descending colon
Jejunum
Ileum
Sigmoid colon
Rectum
THE BODY IN FOCUS

REPRODUCTIVE ORGANS AND GENITOURINARY SYSTEM

Kidney
Ureter
Bladder

Ovary
Uterine tube
Uterus
Bladder
Pelvis
Clitoris
Labia
Urethra
Vagina

Anus

Cervix

Vas deferens
Bladder
Seminal vesicle
Prostate
Testicle

SELECTED BIBLIOGRAPHY

<table>
<thead>
<tr>
<th>BOOK TITLE</th>
<th>AUTHOR(S)/EDITOR</th>
<th>PUBLISHER</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A is for Anatomy</td>
<td>Cosgrove, Margaret</td>
<td>New York: Dodd Mead and Co.</td>
<td>1965</td>
</tr>
<tr>
<td>The Human Body</td>
<td>Miller, Jonathan, M.D. and David Pelham</td>
<td>New York: The Viking Press</td>
<td>1983</td>
</tr>
<tr>
<td>The Body</td>
<td>Nourse, Alan E. and the Editors of Life Magazine</td>
<td>New York: Time Inc.</td>
<td>1964</td>
</tr>
<tr>
<td>What Happens to a Hamburger</td>
<td>Showers, Paul</td>
<td>New York: Thomas Y. Crowell Co.</td>
<td>1970</td>
</tr>
<tr>
<td>Food and Digestion</td>
<td>Ward, Brian R.</td>
<td>London: Franklin R. Watts Ltd.</td>
<td>1982</td>
</tr>
<tr>
<td>The Lungs and Breathing</td>
<td>Ward, Brian R.</td>
<td>London: Franklin R. Watts Ltd.</td>
<td>1982</td>
</tr>
</tbody>
</table>

WANT TO FIND OUT MORE ABOUT THE HUMAN BODY?

Your school and public libraries have many books and magazines about the human body and biology in general. The staffs there will be happy to help you learn more about the areas you're interested in.

Museums in your community may also have interesting displays and resources available to help you in your investigations.

PLATE 5