



# Tech Info Library

## High School Biology Bundle: Description (10/96)

Article Created: 16 October 1996

Article Reviewed/Updated: 30 October 1996

### TOPIC -----

This article contains a description of the Apple Education Series: High School Biology Bundle.

### DISCUSSION -----

Educators nationwide have been searching for innovative ways to facilitate science teaching and learning. Today, with the same technology tools used by scientists, biology teachers are creating classrooms that encourage inquiry and reward curiosity. Now Apple has made that easier to do.

The Apple Education Series: High School Biology Bundle provides a Macintosh computer and the Biology Kit with Probes, which includes a rich set of software programs. Spanning the biology curriculum from genetics to ecology, these interactive programs engage students' interest--and they promote conceptual understanding. In addition, the kit contains a microcomputer-based lab (MBL) with a set of physiology probes and a collection of eight technology-based classroom investigations--one for each topic in the basic biology curriculum.

With the Biology Kit with Probes and a Macintosh computer, you'll discover how computer simulations, multimedia, data collection, graphing, model building, and analysis can enhance "hands-on" laboratory activities in biology.

Note: To ensure successful implementation, we strongly recommend initial training (High School Biology Staff Development) for any teacher using the High School Biology Bundle.

### More Choices, More Flexibility

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Now, when you order a Macintosh computer with one of the Biology Kits, you may also order two other Apple Education Series kits. It's as easy as 1-2-3.

1. Select a computer. Order the featured solution--which includes a Power Macintosh 5260/120 and the kit--or choose one of the other computers listed below and order the computer and kit separately. Refer to the computer data sheets for more details.

2. Choose two other kits. If you wish to order additional Apple Education

Series kits, you can find out what's available on the Education Price List and review the contents on their respective data sheets.\*

3. Purchase everything at once. The Macintosh computer and up to three kits must all appear on the same purchase order.

#### Computer Options

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Power Macintosh 5260/120 (featured computer)

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Equipped with 16 MB of RAM, built-in 14-inch color display, 1.2 GB hard disk drive, 8x-speed CD-ROM drive, stereo speakers and microphone, AppleDesign Keyboard, and mouse.

Power Macintosh 5400/180

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Equipped with 16 MB of RAM, built-in tilt-and-swivel 15-inch color multiple-scan display, 1.2 GB hard disk drive, 8x-speed CD-ROM drive, Ethernet networking, video-input/output, stereo speakers and microphone, AppleDesign Keyboard, and mouse; includes a PCI expansion slot.

Power Macintosh 6400/200

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Equipped with 16 MB of RAM, 256K level 2 cache, 2.4 GB hard disk drive, 8x-speed CD-ROM drive, Ethernet networking, microphone, AppleDesign Keyboard, and mouse; includes two 7-inch PCI expansion slots; supports 16-bit color for display of up to 32,768 colors on a variety of monitors. (Monitor is sold separately.)

#### Biology Kit

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#### Curriculum Software

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\* A.D.A.M. Essentials from A.D.A.M. Software, Inc.

Helps students to learn about anatomy and physiology by allowing them to "dissect" the body from anterior and posterior views, explore major body systems, and visual-ize important concepts through text and animation.

\* Astound from Gold Disk, Inc.

Enables students and teachers to integrate all types of multimedia elements into classroom presentations, reports, overhead transparencies, and color slides.

\* Biology Explorer from Logal Software Inc.

\* ClarisWorks from Claris Corporation

Combines word processing, database, spreadsheet, graphics, presentation, and telecommunications software in one familiar, efficient environment.

\* Clip-Art for Science Teachers from Ventura Educational Systems

Provides science teachers with a variety of detailed diagrams that can be added to tests, reports, overhead transparencies, and worksheets.

\* Investigating Lake Iluka from Interactive Multimedia, Ltd.

Simulates a coastal lake environment that students can explore. Contains tools for investigating the physical, chemical, and biological characteristics of the ecosystem as well as associated news reports.

\* Life Story from Sunburst Communications, Inc.

Explores the discovery of DNA and the struggles of researchers Crick, Watson, and Franklin. Includes segments from the BBC drama, "The Race for the Double Helix," molecular animations, and interviews.

#### Reference Software

- \* The San Diego Zoo Presents...The Animals! from Mindscape, Inc. .
- \* LIFEmap Series (Animals, Animals with Backbones, and Organic Diversity) from Warner New Media
- \* Grolier Multimedia Encyclopedia from Mindscape, Inc.

#### Curriculum Investigations

Model investigations on eight topics (basic chemistry, cells, genetics, classification, plants, animals, physiology, and ecology) provide supplemental activities to support an existing biology curriculum. These investigations demonstrate how multimedia, simulations, and computer-based data collection, analysis, and presentation tools can facilitate the fundamental scientific processes of hypothesizing, experimenting, measuring, interpreting, inferring, and communicating. Each investigation includes suggested outcomes, preparation and prerequisites, directions, and curriculum integration and assessment suggestions.

#### Biology Kit with Probes

This kit includes all contents of the Biology Kit, plus the following:

#### Microcomputer-based Lab

Connect this microcomputer-based lab and set of physiology probes to your Macintosh computer to conduct experiments involving temperature, pulse, and EKG. The MBL uses the power of the computer to control experiments, gather data, and analyze the results, so your students can concentrate on the underlying principles at work.

#### Biology Staff Development

Participants in a two-day training session will explore the role of technology in the science classroom and gain a hands-on familiarity with all the materials in the bundle--including the software and probes. Special attention will be paid to the model investigations. Participants will gain a working knowledge of at least one investigation and learn how to apply it to their own classrooms.

#### Ordering Information

#### Biology Bundle

Includes Power Macintosh 5260/120 and Biology Kit with Probes--a convenient way to order a hardware/software combination with a single part number.

Without CPU setup: B2816LL/C

With CPU setup: B2818LL/C

Biology Kit

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Order No.: T1569LL/E

May be purchased only with a computer.

Biology Kit with Probes

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Order No.: B2819LL/B

May be purchased only with a computer.

Power Macintosh 5400/180

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Without setup: M5162LL/A

With setup: B2766LL/D

Power Macintosh 6400/200

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Without setup: M5427LL/A

With setup: B3043LL/A

Monitor is sold separately.

Biology Staff Development

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Order No.: T1570LL/A

Article Change History:

30 Oct 1996 - Added part numbers.

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Keywords: specsht

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This information is from the Apple Technical Information Library.

19961101 12:37:21.00

Tech Info Library Article Number: 20539