The Educational Experience

Tomorrow...Today.

They're tomorrow's doctors.
Tomorrow's lawyers.
Tomorrow's scientists.
Tomorrow's business leaders.
Tomorrow's engineers.
Tomorrow's politicians.
Tomorrow's educators.

Today, they're your students. And you know that the educational experience you give them will play a profound role in much more than their future vocations.

It will literally shape the world of tomorrow.

It is, at least in part, because of this awesome responsibility that teaching methods and tools are obligated to change constantly to reflect the latest innovations in both information and technology.

One such innovation is the computer.

Thirty years ago, computers were looked upon in the same light as a man walking on the moon. Needless to say, man on the moon has already become reality.

So has the computer.

Today, the computer is becoming an integral component in every facet of life. In business. In the home.

And in education. Today, educators across the globe are examining ways that computers can upgrade their curriculums. Many schools, from the elementary level through university level, have already incorporated computers and are reporting significant benefits.
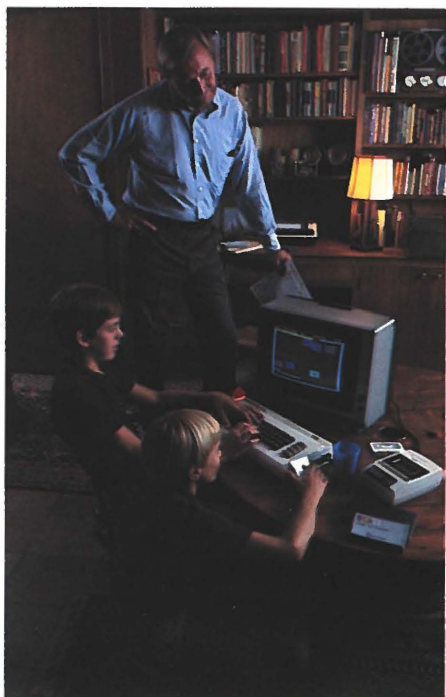
Throughout the educational field, Commodore has been associated with this revolution, or evolution. And for good reason. Back in 1976, Commodore International launched the personal computer era when we introduced the world's first low-cost desk-top microcomputer. Today, Commodore computers and features have become the value standard by which computer-based education products are judged.

This expertise, both in microcomputer technology and the various ways that educators can take advantage of it, has positioned Commodore as a leader and innovator. Today, more than 100,000 PETs® alone are being used in schools all over the world. And each day the number increases.

But Commodore's commitment can best be measured by our comprehensive line of computers, computer accessories and software, support and services dedicated to the educators of today. And the leaders of tomorrow.

Commodore – The Teacher's Aid

Microcomputers vary in price from several hundred dollars to about $10,000. Some of them are toys; others carry features that make them useful to students and teachers. The question is: "How can you determine what microcomputer is best suited for you?"

There are four Commodore product lines tailored to the needs of educators around the world. They range in price from about $450 to $2,795, and have memory capacities from 5K (5,000 bits of information) to 134K. Single disks, dual disks, printers, and many hundreds of different software programs are also available to make our products well suited to the requirements of educators and students.

But Commodore's commitment to education goes far beyond the actual products we sell.

Three-for-Two Grants*

The Commodore Education Advisory Board will grant a free third computer for every two purchased by an educational institution. When your school shows a commitment, so does Commodore.

Software Listings

The Software Applications Encyclopedia is updated twice annually with international sources of programs. Teachers who wish to list their own programs may submit them for potential listing in the directory. Through this continuing updating, the latest worldwide sources are always available to you.

National Dealer Network

Commodore dealers — a force of over 600 across North America — have the expertise to supply and support your institution, no matter what your requirements.

Journals and Clubs

A broad array of Journals support the teacher's professional development, including Commodore's microcomputer magazine. The Education Advisory Board encourages the distribution of club news and other supportive aids including a comprehensive library of public domain educational software.

IEEE-488 Port

More than 2,000 devices are marketed and can be attached to Commodore's built-in IEEE port for instrument or device control. On many other systems this feature is optional, costing several hundred dollars.

*For details and applicable models, contact your dealer.

Commodore – The Industry Standard

Reliability

Fewer breakdowns mean greater computer availability to students. Commodore factories control the quality of each component that makes up a Commodore computer — from individual integrated circuit chips to enclosures. In fact, Commodore designed the original 6502 micro-processor, which is the standard on many other manufacturer's microcomputers. This dedication to quality is proven in thousands of classrooms, where many of the original 1976 PETs are used on a daily basis.

Service

Commodore dealers carry spare parts and employ skilled service technicians so that local repairs can be guaranteed.

Built-in Features

Upper and lower case characters are standard on each computer. The CRT monitor is standard on each computer (except the VIC 20). An IEEE-488 interface and user port are standard on every computer. Screen editing functions are standard, as well as a comprehensive set of graphic characters. You don't have to load special programs or add accessories to get any of these features. They're available the moment you turn your computer on.

User Clubs

More than 200 Commodore PET user clubs have been organized around the world, with about 75 clubs in the United States and Canada alone. In addition, dozens of newsletters are published that serve as a forum to exchange new ideas about Commodore hardware and software.

Software Directory

The Software Encyclopedia lists more than 700 major software programs and tools for the teacher to use. The Commodore Education Advisory Board unifies and coordinates input from user groups across the country. Software that is backed up by book publishing companies, software houses, and state and national associations as well as an active and creative cottage-industry is updated periodically.
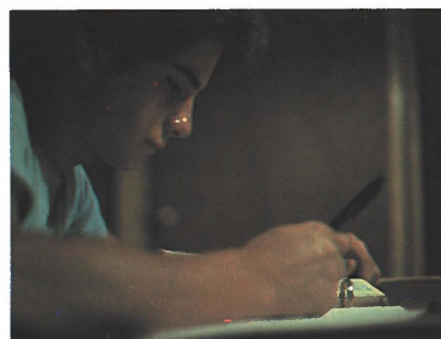
Intelligent Peripherals

All Commodore disk drives, printers and other peripherals contain their own microprocessor and memory. Because each unit is "intelligent" no operating system needs to be loaded or user memory dedicated, leaving all the computer's memory available for programs.

Full Product Line

When you need to move up to larger disk capacity, more memory, additional printer capacity, or speech output, Commodore's full product line gives you a coherent, upward-compatible path that assures easy growth without conversions or wasted investments. And if you need languages other than BASIC, the Super-PET is ready to serve you with Waterloo microPascal, microAPL, micro-FORTRAN and 6809 Assembler. And with all these systems the same peripherals can be used across the line.

Local Support

Each dealer carries a wide range of accessories, books, software, plus friendly assistance. You don't pay

extra for this support. In addition, Commodore's service department provides further support to its network of Dealers.

Networking

Teachers can connect many computers to a single disk unit or printer, or even many disks to a single computer, for very cost-effective configurations. There are also packages available that allow your Commodore computer to communicate with large mainframe computers or other micro-computers.

Educational Software

Good software, like a good lecture or good textbook, should fit into curriculum objectives and be easy to integrate into the classroom.

However, you should be able to select from the largest possible assortment of software available, thus increasing your chances of finding EXACTLY the kind of software you're looking for.

With more than 10,000 classroom programs available worldwide, the choice of drill and practice, simulations, or computer-aided modules is really up to you.

Commodore computers can accommodate almost every conceivable type of software available. And most of the educational software being produced today is made for our equipment.

■ Book publishing companies often sell software that accompanies their textbooks. Thus, a curriculum that is planned around a textbook may offer work assignments, requiring computer or software assignments. Software that is publisher supported has been noted for stability and reliability. The Millikan Math Series for PET computers, Follett book company, Science Research Associates, and others publish and distribute Commodore software.

■ Software houses, such as Learning Tree, Krell, Micro-Ed, Programma International, Right on Programs, Creative Programming, Evans Newton Incorporated, Cumputa-Mania, and others, provide extensive offerings of PET and VIC-based software.
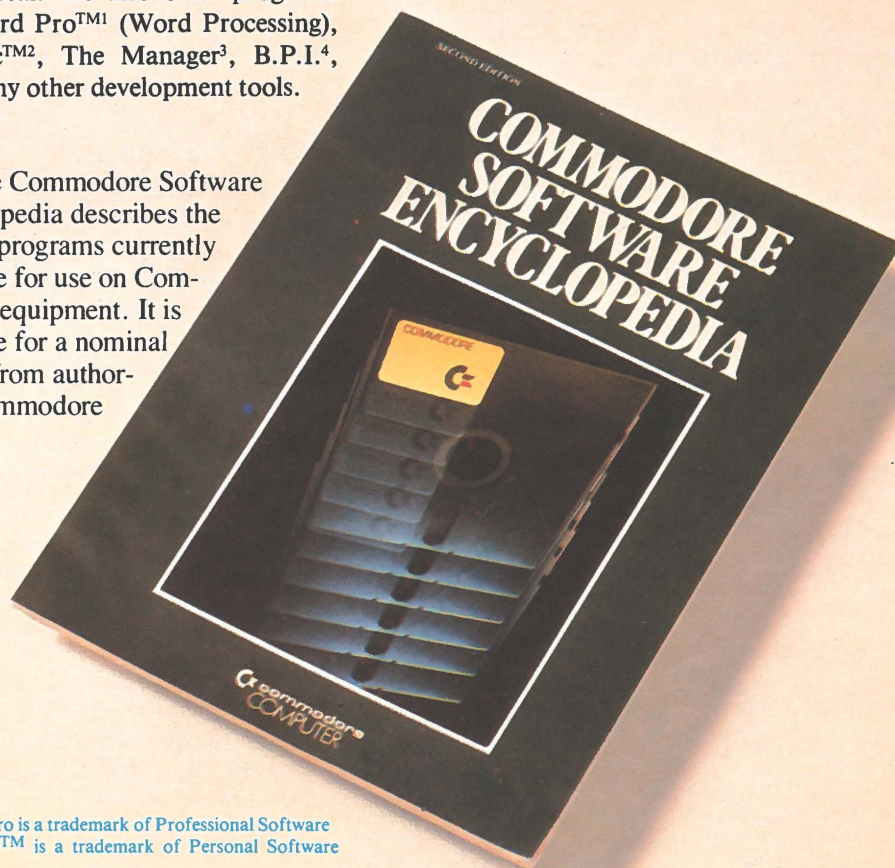
■ State networks and national associations, such as MECC, TIES, BOCES, AEDS, and others, carry extensive libraries of software for Commodore computers. Much of it is "public domain," while the remainder may be licensed for use.

■ The cottage industry is composed of thousands of teachers, students, architects, biologists, mathematicians, and hobbyists. They write programs for their own use and later trade, sell or license their creations in an international effort. PET software from U.S.A., England, Australia, and other English-speaking countries offers exciting additions to the Canadian base of classroom software.

■ Commodore itself supplies software tools, which extend the computer in many ways. In addition to BASIC, we support languages such as COBOL (structured BASIC), PILOT, APL, and Pascal. We also offer programs like Word Pro[TM1] (Word Processing), VisiCalc[TM2], The Manager[3], B.P.I.[4], and many other development tools.

■ The Commodore Software Encyclopedia describes the various programs currently available for use on Commodore equipment. It is available for a nominal charge from authorized Commodore dealers.

SECOND EDITION

COMMODORE SOFTWARE ENCYCLOPEDIA

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COMPUTER

1. Word Pro is a trademark of Professional Software
2. VisiCalc[TM] is a trademark of Personal Software Inc.
3. The Manager is a data base created by B.M.B. Compuscience
4. B.P.I. was created by BPI Micro Systems.

Commodore Personal Computers

VIC 20

- Full color and sound
- Upper and lower case characters
- 5K RAM, expandable to 32K
- 3 music synthesizers covering five octaves
- Sound effects generator
- Full-size typewriter-style keyboard
- 22-column by 23-line display (506 total characters)
- Uses color/b&w TV or monitor
- Large, easy-to-read characters
- 16 screen colors
- Low-cost peripherals include tape recorder, printer, and modem
- "User friendly" instruction guide
- Educational software
- Plug-in ROM cartridges

Applications:
Language skills
Math drills

PET 4000 Series

- Full size 12-inch monitor
- Upper and lower case characters
- Full screen editing
- 16K or 32K RAM
- 40-column by 25-line display
- PET graphic character set
- IEEE-488 Interface
- Optional modem

Applications:
Classroom and laboratory

64K Memory Expansion Board

- Adds 64K RAM to CBM™ 8032 (Total 96K RAM)
- Additional 64K is addressable in 4–16K banks
- Includes memory manager and enhanced BASIC commands

Applications:
Engineering and science labs
Research

CBM 8000 Series

- Full size 12-inch monitor
- 32K to 96K RAM
- 80-column by 25-line display

- IEEE-488 Interface
- PET graphic character set

Applications:
Secretarial science
Business courses
Engineering and science labs
Research labs

SuperPET 9000 Series

- 134K total memory
- 30K user space
- Dual processors (6502 or 6809)
- Compatible with all CBM 8032 software
- RS 232 communication interface
- Plus all features of standard CBM 8032

Five languages including Waterloo:
microBASIC
microAPL
microPascal
microFORTRAN
(microCOBOL is under development) 6809 Assembler/Editor

Applications:
Computer science labs
Software development
Research

Commodore Peripherals

CBM 4022 Dot-Matrix Printer

- 80-columns wide
- Prints inverse, enhanced and graphic characters
- Up to 80 CPS print speed
- Bi-directional

CBM 4010 Voice Synthesizer

- Converts program phonemes to voice output

CBM 8010 Modem

- IEEE-488 Interface
- Bell 103 compatible
- Links to networks like the Source, Dow Jones, or mainframe systems
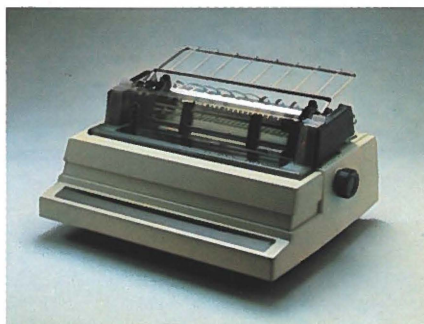
CBM Dual Disk Drives

- CBM 4040 (343K bytes total storage)
- CBM 8050 (1 megabyte total storage)

With other systems you would exceed the maximum number of drives allowed before even reaching this capacity.

CBM 2031 Single Disk Drive

- 170K total storage
- Format compatible with CBM 4040 Dual Disk Drive

CBM 8300P Letter Quality Printer

- 132 columns wide
- Metal or plastic "Daisy Wheels"

- 45 CPS print speed
- Carbon or multi-pass ribbon
- IEEE-488 Interface

Commodore Regional Offices:

Northeastern Region
Commodore Business Machines
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Woburn, MA 01801
(617) 938-0552

Mid-Atlantic Region
Commodore Business Machines
761 Fifth Avenue
King of Prussia, PA 19406
(215) 666-7950

Southeastern Region
Commodore Business Machines
5360 Snapfinger Woods Drive
Suite 106
Decatur, GA 30035
(404) 987-3311

South Central Region
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4350 Beltwood Parkway South
Dallas, TX 75234
(214) 458-1000

Midwestern Region
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Bensenville, IL 60106
(312) 595-5990

Southwestern Region
Commodore Business Machines
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(714) 972-1415

Northwestern Region
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Santa Clara, CA 95051
(408) 727-4755

Canada:

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Agincourt, Ontario
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