

SCL UNICORN MICROCOMPUTER
STATUS • COMPANION • CLASS • LINKER



Semiconductor Complex Ltd.

SCL UNICORN

A winning attitude
towards life...

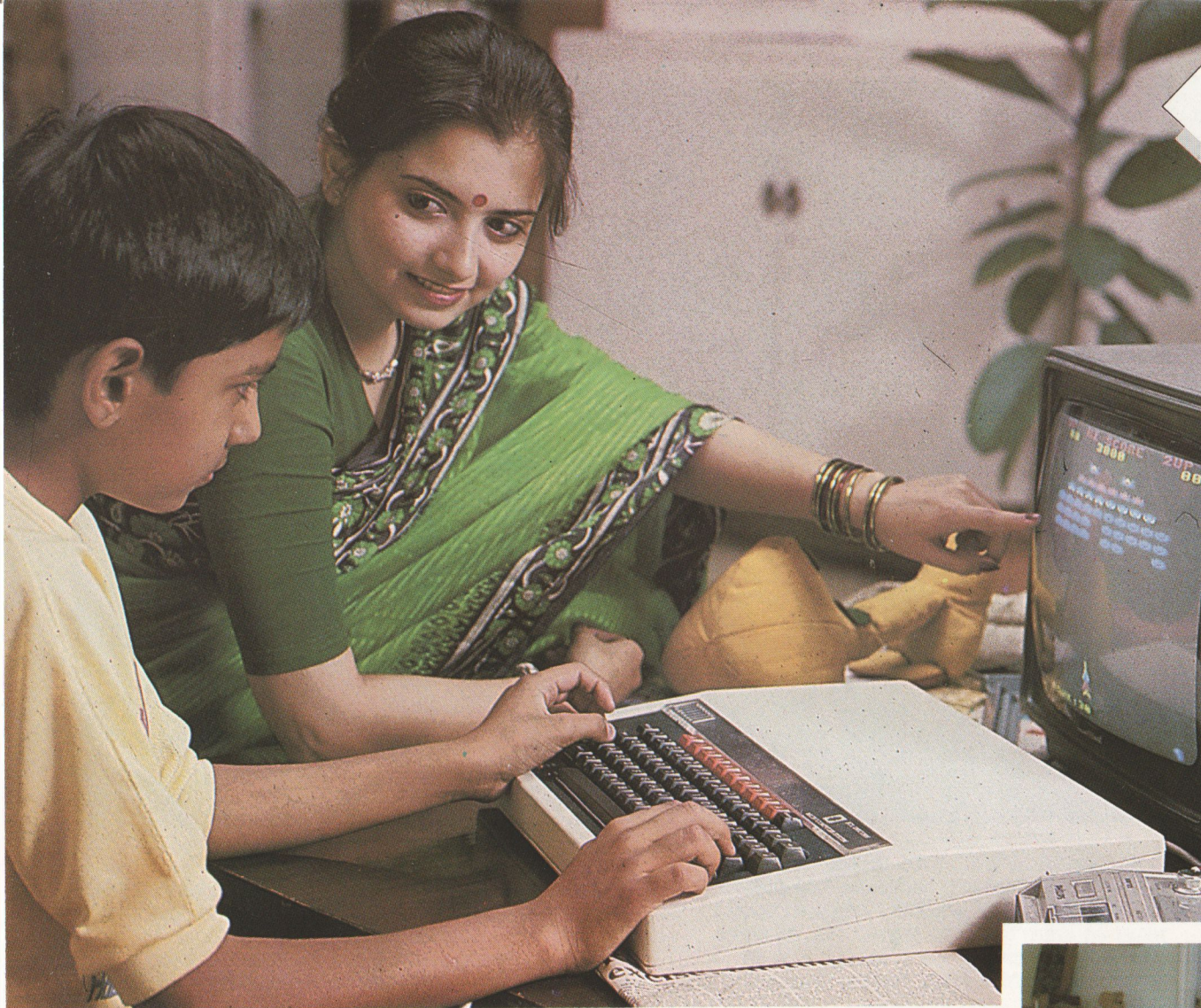


A successful future begins today. This depends on the confidence with which we use present day technology. That is precisely why a computer plays an important role in your life. At home. Office. School. Everywhere! Ideally, it is an investment in tomorrow. For you and your family.

SCL Unicorn comes in an exclusive range of Microcomputers. Designed to make your investment give higher dividends. Actually, the SCL Unicorn is a package that's more than just an interesting diversion. Or even a useful tool. It's friendly and functional for beginners. And perfectly adaptable for professional needs.

And Unicorn Software impresses too! Now available in a variety that stretches into every segment of your life. You can get ahead in your profession — whatever it be. Its Educational Packages provide sound value for your children. And you can also entertain yourself with it.

When you get SCL Unicorn, you get subtle styling structured into a compact unit — ideal for economy of space. What's more, it's the country's only package, conditioned to match a wide spectrum of need-based applications for everyone, including you. Soon you'll realise how much it pays you back — day after day!



UNICORN STATUS occupies a unique position within your family. It entertains and guides. It's simple to use and so economical! Because you don't have to buy a full system. All you need is UNICORN STATUS as you already have a colour TV and cassette recorder.



UNICORN

STATUS



As a stepping stone to computer literacy, STATUS boosts a child's future. Parents too will find it exciting to develop the retentive faculties of children.

STATUS is useful and handy for various domestic chores. It speeds up your statement of monthly budget. It gives you the list of birthdays alongwith the relevant names and addresses — for any given month.

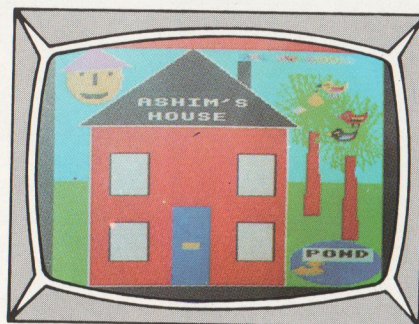
You can also create designs and simulate various audio-video effects. Infact, the entire circuit of games sharpens your skills as you play.

So cheer up kids! Here are fun and games for everyone. Play snooker or race ahead in your car. Or display your winning instinct at chess. Let's start now!

ITEM	ESTIMATE	ACTUAL	SURPLUS
MORTGAGE	1500.00	1500.00	0.00
M.P. MAINTENANCE	1200.00	1200.00	0.00
RATES	200.00	200.00	0.00
INSURANCE	400.00	400.00	0.00
HOUSEKEEP	400.00	400.00	0.00
MOTORING	1200.00	1200.00	0.00
ELECTRIC	500.00	500.00	0.00
GAS	24.00	24.00	0.00
SUBSCRIP	200.00	200.00	0.00
TELEPHON	300.00	300.00	0.00
ENTERTAIN	100.00	100.00	0.00
SCHOOL IN	170.00	170.00	0.00
MEDICAL	500.00	500.00	0.00
LEGAL	0.00	0.00	0.00
CLOTHING	100.00	234.00	134.00
PAPERS	30.00	30.00	0.00
HOLIDAYS	0.00	15.00	15.00
COMPUTIN	0.00	0.00	0.00
SUNDRIES	200.00	200.00	0.00
TOTAL	3524.00	2696.00	828.00

MONEY MANAGEMENT

Aids personalised accounting & budgeting for executives and housewives. To manage daily finances and plan future budgets.

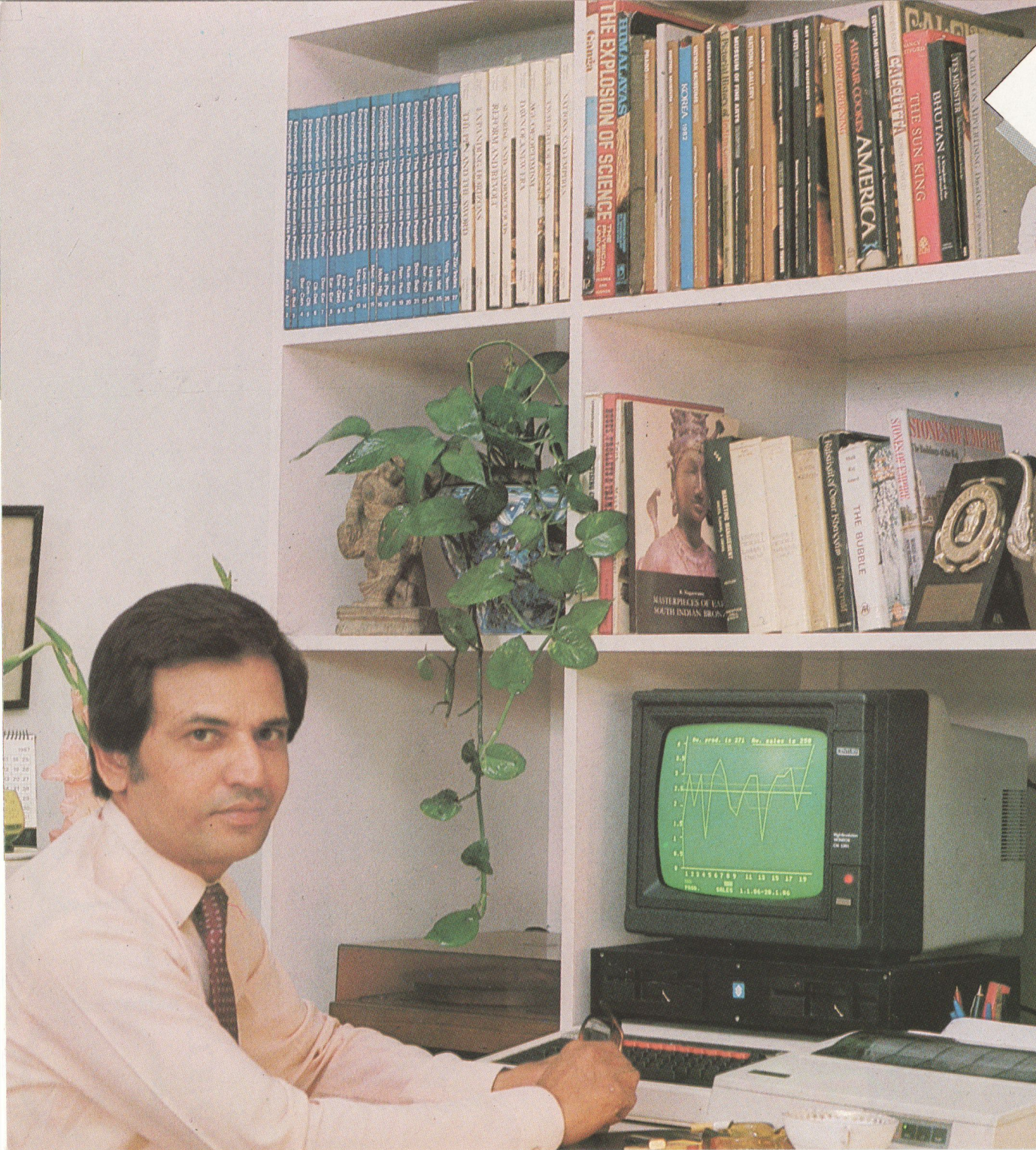


FUNHOUSE

It visually teaches the child how to spell with advanced animation techniques and music.

UNICORN

STATUS



Your professional success clearly depends on the strength of timely decisions and how you find better ways of extending your capabilities. The SCL UNICORN offers instant solutions for all your professional needs. No more do you have to be confused by monotonous columns of numbers. Now you have a more productive choice to include display charts, formats and diagrams. This is necessary to speed up work. And to simplify the whole process.

UNICORN

companion



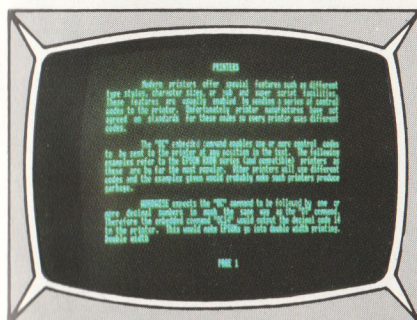
COMPANION is a highly versatile work aid. It caters to a varied spectrum — professional and domestic. And you can depend on it in whatever you do. For quicker and accurate results!

The range of applications that COMPANION offers is almost endless. And there's always one for you. Or as many as you want. The utility span covers Chartered Accountants, Lawyers, Architects, Doctors, Astrologers and many more.

UNICORN COMPANION is a floppy disk based microcomputer system. You get all the necessary speed to store and retrieve information. It can use two double-sided disk drives (800K auxilliary memory). It can be hooked up to a parallel printer. And it gives out an output for green phosphor high resolution monitor.

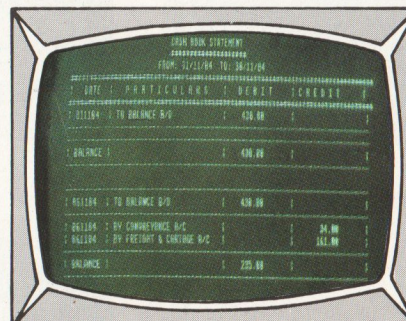
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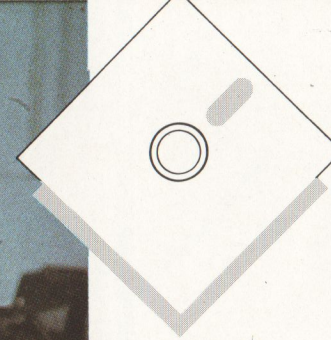
WORDWISE PLUS

A powerful user-friendly word processing package which you can learn to use in few hours. Segmented memory in 11 parts for facilitating store and edit functions — upto 11 documents. It has 'Mailmerge' facility to produce the same text with multiple addresses, e.g. you can effortlessly handle hundreds of direct mailers and invitation cards etc. Also features 'Electronic Note-pad'.



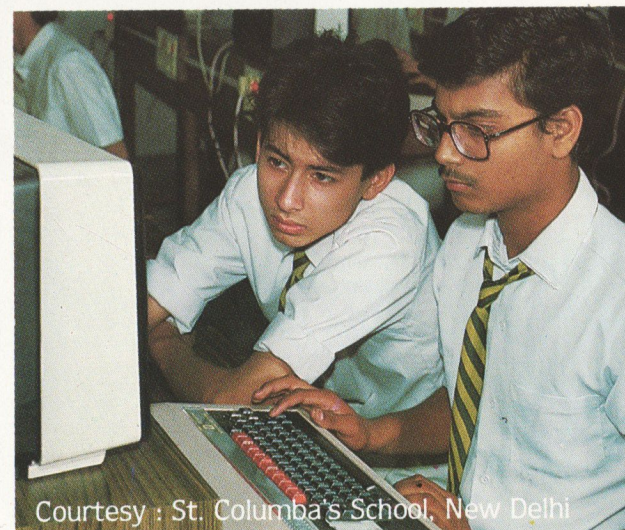
FINANCIAL ACCOUNTING

Disk based integrated financial A/c package. Report outputs: Cash Book, Bank Book, Trial Balance, Balance Sheet etc. Ideal for self employed professionals and jobbers.



Nothing is so relevant to a fast changing world than computers. And easy availability of computers today has revolutionised education. To prepare children for the future, it is essential to give them control over the new technology and 'let them program rather than be programmed'.

Courtesy : St. Columba's School, New Delhi



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UNICORN

CLAS

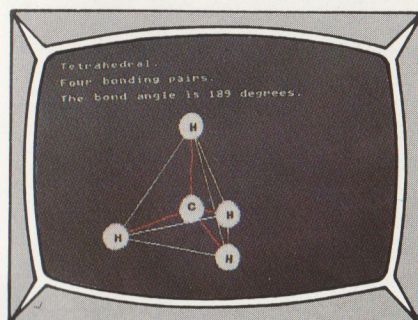


Courtesy : St. Columba's School, New Delhi

UNICORN CLASS has an ever growing utility within the education segment. This is also clearly illustrated by BBC Micro (SCL Unicorn is compatible to BBC Micro of U.K.) which is used at all schools in Europe. More than one million such computers have already been installed. Inspired by these facts, the Government of India has adopted SCL Unicorn as a model computer in its Computer Literacy program.

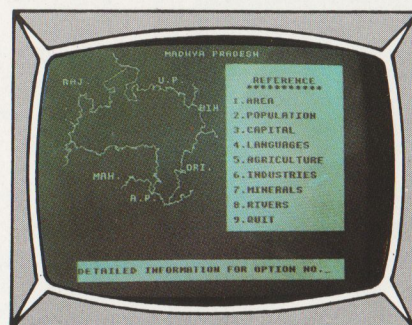
CLASS software programs provide tremendous educational value. Each program stimulates the child's response, grips interest and makes learning a lot easier. Ideally, relevant software should replace the traditional text book at school. Text books, at best, could serve as a referential utility at home.

Now you have all the Educational Packages to pick up from. To suit your individual needs. So get started. Be a Maths wizard. Impress your friends with General Knowledge. Discover your country. Or start now as a great scientist in the making.



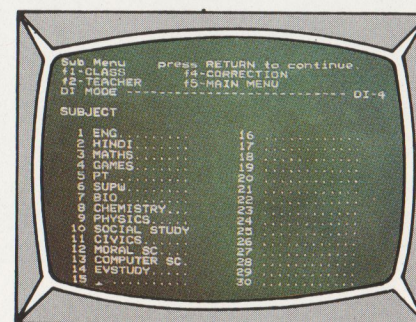
CHEMICAL BONDING

Gives a striking three dimensional effect to the simple bonding between various atoms within a total molecular structure. This explains complex phenomenon in a simple manner.



KNOW YOUR COUNTRY

An educational package which graphically projects various aspects of India, such as physical dimensions, agriculture, industry etc. It's the best way to learn Geography.

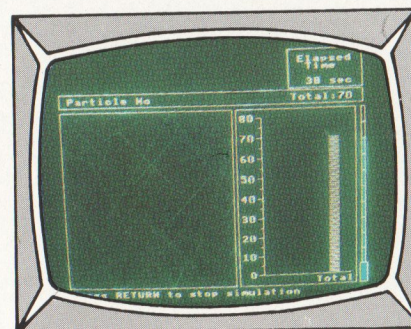
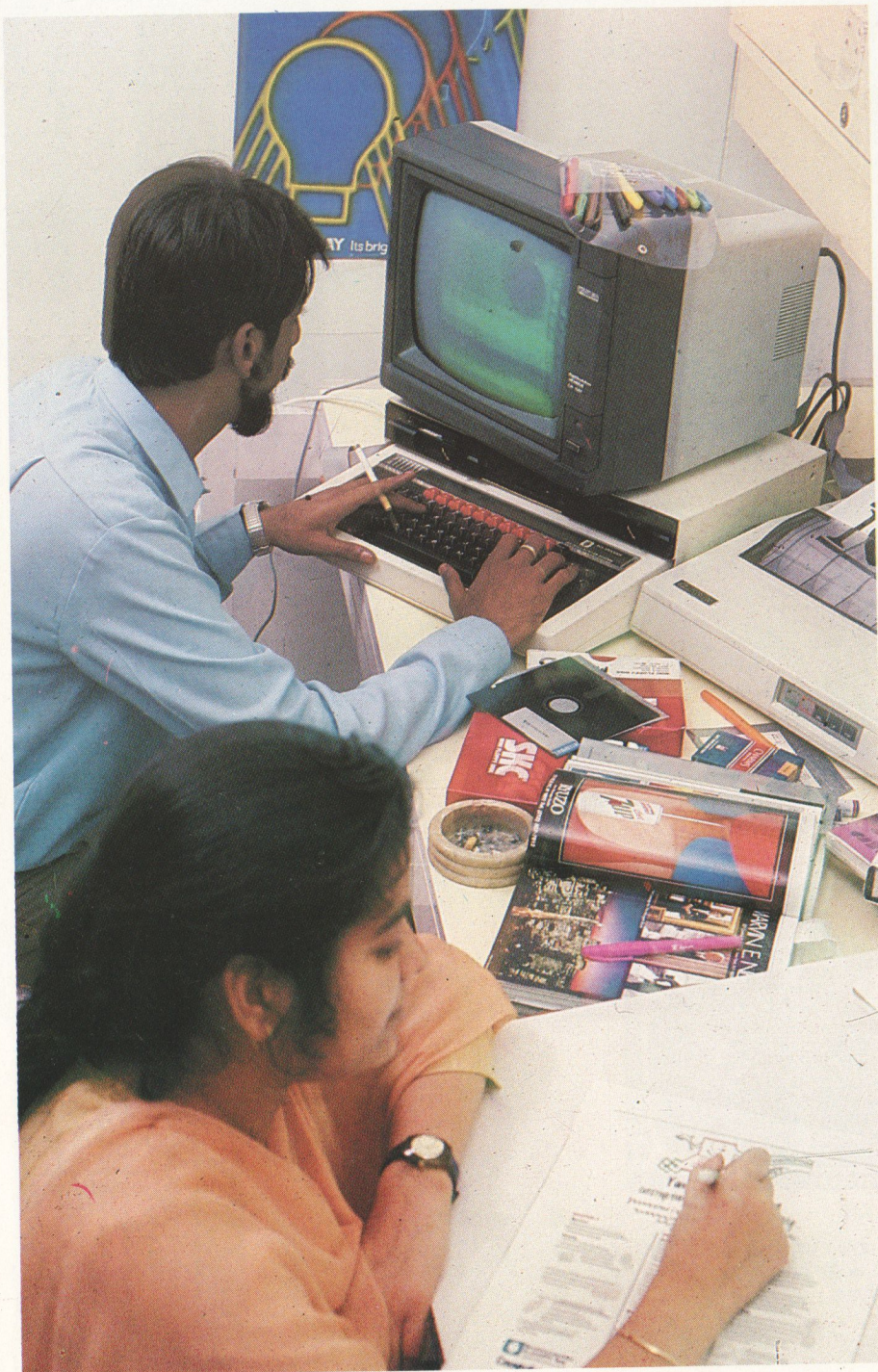


SUPER TIME

Sets up Time Tables with speed, impartiality and accuracy. A boon for School Principals.

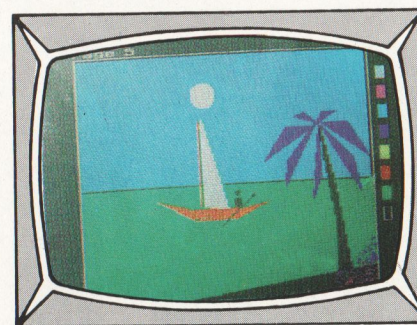
UNICORN

CLASS



CHEMICAL COLLISIONS

Highlights and explores the reaction rate of two gases. Animation builds up strong visual effects.



IMAGE

This is the most comprehensive graphics package. It is a powerful aid to boost your creative faculties. You can create different shapes, lines, patterns and textures or even structure text — all in various colours. Even video images can be transferred to the screen.

UNICORN CLASS is a versatile system, vital for wide ranging applications — from Computer Aided Learning System to activities like Computer Graphics. It has interfaces for connecting floppy disk drive and audio tape recorder, parallel printer, user port, 1 MHz bus, UHF output for the TV, video output for the monochrome monitor, RGB output for colour monitor, RS423 and A/D convertor for process control.

UNICORN CLASS helps children to understand abstract concepts. In this manner, the computer not only teaches numbers or words, but links them up with ideas, visually. Thus while the children play, they assimilate and develop intuitive, creative and analytical skills.

UNICORN

CLASS

SCL UNICORN

The inside story...

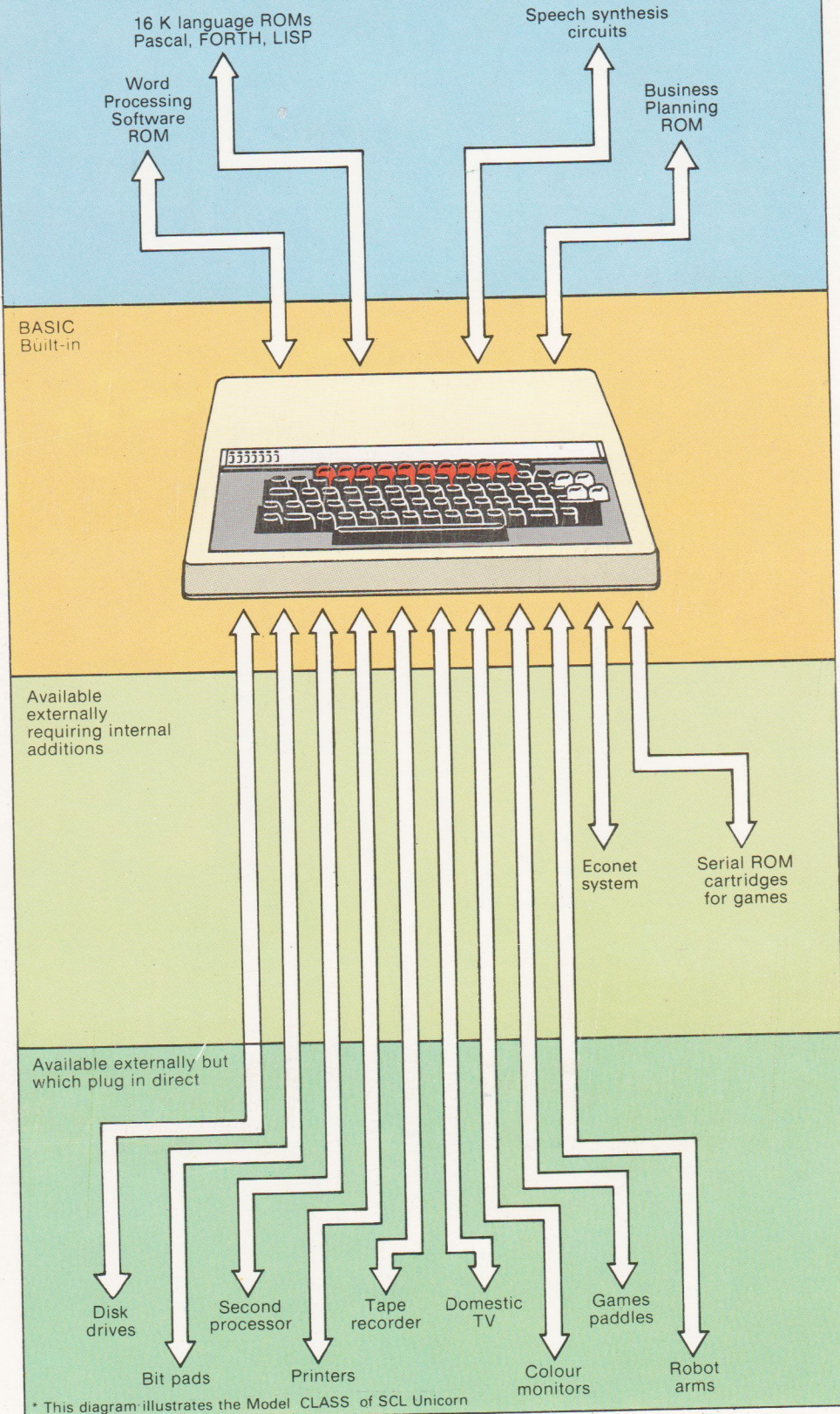
- The unit uses a 2 MHz 6502 Microprocessor and includes 32K of Random Access Memory.
- A 16K Read Only Memory (ROM) Integrated Circuit contains a Machine Operating System designed to interface easily to high level languages. O.S. Subroutines can be called.
- A further 16K Language ROM contains a fast BASIC interpreter. The interpreter includes a 6502 assembler which enables BASIC statements to be freely mixed with 6502 assembly language.
- Supports following languages: BASIC, ISO-PASCAL, LISP, COBOL, LOGO, 6502 ASSEMBLY, FORTH, BCPL.
- Up to four 16K "sideways" ROMs may be plugged into the machine at any time. These four ROMs are "paged" and may include BASIC, PASCAL, word processing, Computer Aided Design software, disk and Econet filing systems etc.
- 73 key full travel QWERTY keyboard including 10 user definable function keys. The keyboard has two key rollover and auto repeat.
- The internal loudspeaker is driven from a 4-channel sound synthesis circuit with full ADSR envelope control. Coherent speech facility is also available.
- An interrupt driven elapsed time clock enables real-time control and timing of user responses.
- Separate or overlapping text and graphic windows can be easily user-defined over any area of the display. Each of these windows may be filled separately and the text window scrolls independently of the rest of the screen.
- SCL Unicorn is able to support the following modes:
 Mode 0: 640 x 256. 2 colour graphics and 80 x 32 text (20K)
 Mode 1: 320 x 256. 4 colour graphics and 40 x 32 text (20K)
 Mode 2: 160 x 256. 16 colour graphics and 20 x 32 text (20K)
 Mode 3: 80 x 25. 2 colour text only (16K)
 Mode 4: 320 x 256. 2 colour graphics and 40 x 32 text (10K)
 Mode 5: 160 x 256. 4 colour graphics and 20 x 32 text (10K)
 Mode 6: 40 x 25. 2 colour text only (8K)
 Mode 7: 40 x 25. teletext display (1K)
- UNICORN has the most widely used (shugart compatible) **drive** interface. Any of the following can be used with UNICORN
 - 5¼" & 3½" Single Sided Disk Drive
 - 5¼" & 3½" Double Sided Dual Floppy Drive
- Parallel **Printer** Interface provides a Centronics standard parallel printer interface with an octal buffer.
- **User I/O Port** is left uncommitted and is free for user application as either input or output.

- A **1MHz** buffered extension bus is provided for connection to a variety of external hardware such as a Teletext acquisition unit, IEEE 488 interface, Winchester disk drive etc.
- **Tube Z80** second processor with 64K of RAM; a CP/M* 2.2 compatible operating system plus software.
- Local Area Network (LAN) called **Econet** on SCL UNICORN enables a number of UNICORN computers to share expensive resources such as printer and a disk file server. Up to 254 stations may share network to or distance of 400 metres by cheap 4 wire 'telephone' cable.
- Four **analogue** input channels are provided. Each Channel has an input voltage range 0-1.8V. The conversion time for each channel is 10 milliseconds. These analogue inputs can be used not only as input for games-paddles or joysticks but also in laboratory control applications. The resolution of the ADC chip is 12 bits, but its conversion is such that only 9 or 10 bits are significant. However with suitable averaging, this can be extended to the full 12 bits accuracy.
- A standard audio **cassette** recorder can be used to record computer programs and data at 300 or 1200 baud using the Computer Users Tape Standard tones. The cassette recorder is under full automatic motor control and is connected to the computer via a 7 pin or 5 pin DIN.
- Serial interface to **RS423** standard. The new standard has been designed to be inter-operable with RS232C equipment but offers a considerably enhanced specification — for example in maximum length of cable and maximum data transfer rates. Baud rates are software selectable between 75 baud and 19,200 baud. The interface provides not only two-way data transfer, but also two-way hand-shaking using RTS and CTS lines.
- A colour television signal, for connection to a normal domestic television aerial socket, is available through a phono connector. This signal is 625 line, 50 Hz interlaced, fully encoded PAL and is modulated on **UHF** channel 36.
- A BNC connector supplies a composite **video-out** to drive monochrome or PAL modulated colour monitor.
- An **RGB** video output is provided to drive a high quality colour monitor.

* CP/M is a Registered trade mark of Digital Research

The SCL UNICORN System Plan*

ROM based software which can be plugged easily inside.



is provided for
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EE 488 interface,

64K of RAM; a
system plus

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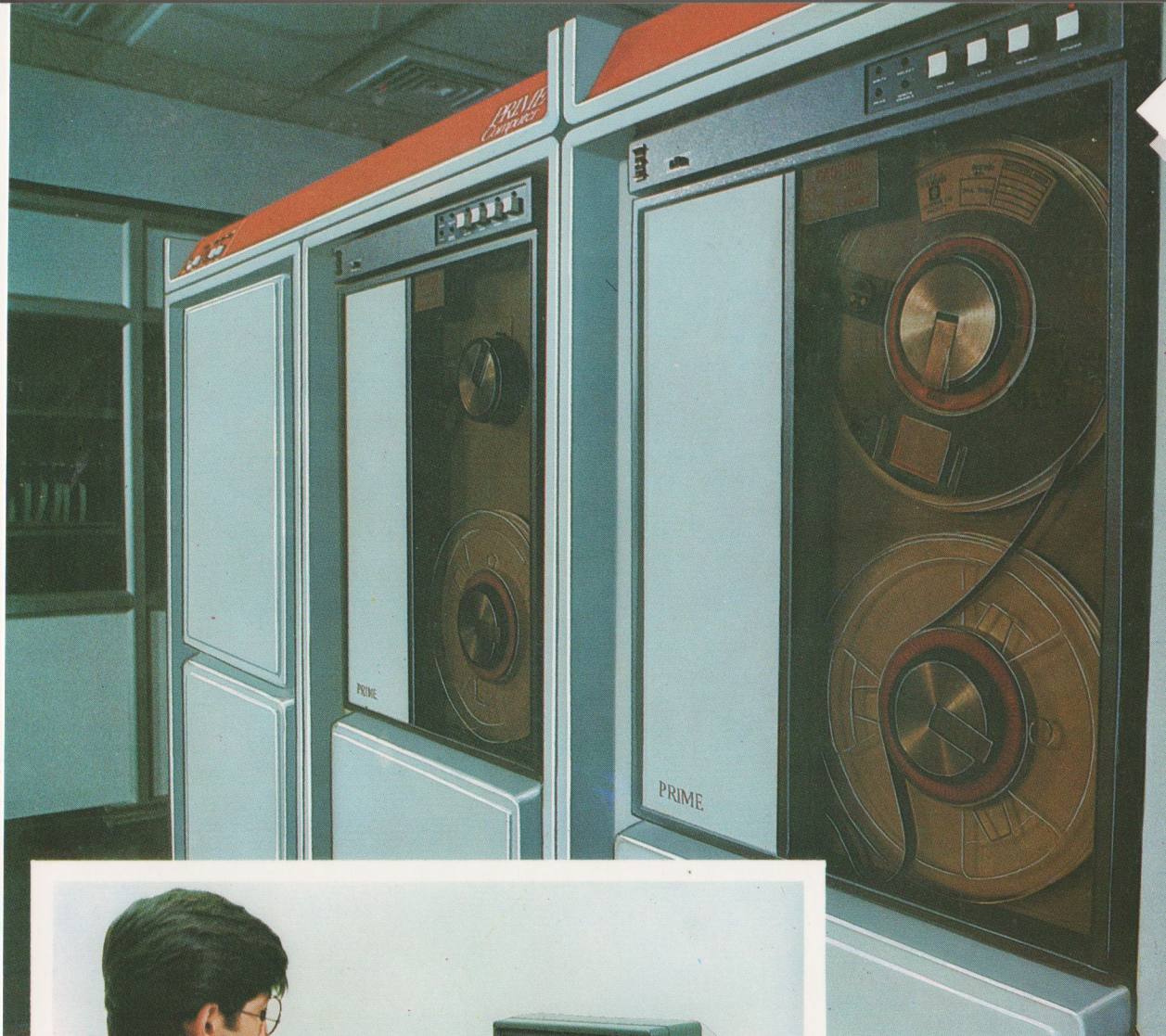
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UNICORN LINKER is an excellent communicative terminal for connecting with Mainframes and Minicomputers. The inbuilt firmware of LINKER emulates ANSI (VT100), VT52, Tektronix 4010, a 'dumb' terminal, a 'hardcopy' terminal which facilitates the host computer and UNICORN LINKER to communicate with each other.

LINKER includes the following interfaces:

- * RS423 (RS232C) for communication with the host computer.
- * Composite video-out for monochrome monitor.

UNICORN

linker



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SCL UNICORN
The winner with upgradable plus!