

The \$149⁹⁵ personal computer.

Introducing the Sinclair ZX81

If you're ever going to buy a personal computer, now is the time to do it.

The new Sinclair ZX81 is the most powerful, yet easy-to-use computer ever offered for anywhere near the price: only \$149.95* completely assembled.

Don't let the price fool you. The ZX81 has just about everything you could ask for in a personal computer.

A breakthrough in personal computers

The ZX81 is a major advance over the original Sinclair ZX80—the world's largest selling personal computer and the first for under \$200.

In fact, the ZX81's new 8K Extended BASIC offers features found only on computers costing two or three times as much.

Just look at what you get:

- Continuous display, including moving graphics
- Multi-dimensional string and numerical arrays

*Plus shipping and handling. Price includes connectors for TV and cassette, AC adaptor, and FREE manual.

- Mathematical and scientific functions accurate to 8 decimal places
- Unique one-touch entry of key words like PRINT, RUN and LIST
- Automatic syntax error detection and easy editing
- Randomize function useful for both games and serious applications
- Built-in interface for ZX Printer
- 1K of memory expandable to 16K

The ZX81 is also very convenient to use. It hooks up to any television set to produce a clear 32-column by 24-line display. And you can use a regular cassette recorder to store and recall programs by name.

If you already own a ZX80

The 8K Extended BASIC chip used in the ZX81 is available as a plug-in replacement for your ZX80 for only \$39.95, plus shipping and handling—complete with new keyboard overlay and the ZX81 manual.

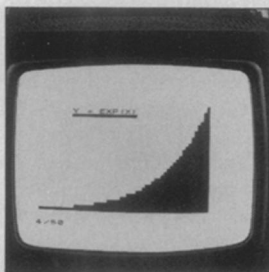
So in just a few minutes, with no special skills or tools required, you can upgrade your ZX80 to have all the powerful features of the ZX81. (You'll have everything except continuous display, but you can still use the PAUSE and SCROLL commands to get moving graphics.)

With the 8K BASIC chip, your ZX80 will also be equipped to use the ZX Printer and Sinclair software.

Warranty and Service Program**

The Sinclair ZX81 is covered by a 10-day money-back guarantee and a limited 90-day warranty that includes free parts and labor through our national service-by-mail facilities.

**Does not apply to ZX81 kits.



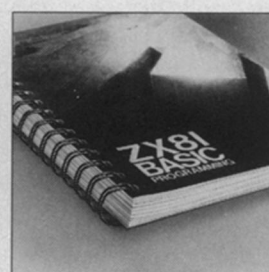
NEW SOFTWARE: Sinclair has published pre-recorded programs on cassettes for your ZX81, or ZX80 with 8K BASIC. We're constantly coming out with new programs, so we'll send you our latest software catalog with your computer.



ZX PRINTER: The Sinclair ZX Printer will work with your ZX81, or ZX80 with 8K BASIC. It will be available in the near future and will cost less than \$100.



16K MEMORY MODULE: Like any powerful, full fledged computer, the ZX81 is expandable. Sinclair's 16K memory module plugs right onto the back of your ZX81 (or ZX80, with or without 8K BASIC). Cost is \$99.95, plus shipping and handling.



ZX81 MANUAL: The ZX81 comes with a comprehensive 164-page programming guide and operating manual designed for both beginners and experienced computer users. A \$10.95 value, it's yours free with the ZX81.

The \$99⁹⁵ personal computer.

Introducing the ZX81 kit

If you really want to save money, and you enjoy building electronic kits, you can order the ZX81 in kit form for the incredible price of just \$99.95*. It's the same, full-featured computer, only you put it together yourself. We'll send complete, easy-to-follow instructions on how you can assemble your ZX81 in just a few hours. All you have to supply is the soldering iron.

How to order

Sinclair Research is the world's largest manufacturer of personal computers.

The ZX81 represents the latest technology in microelectronics, and it picks up right where the ZX80 left off. Thousands are selling every week.

We urge you to place your order for the new ZX81 today. The sooner you order, the sooner you can start enjoying your own computer.

To order, simply call our toll free number, and use your MasterCard or VISA.

To order by mail, please use the coupon. And send your check or money order. We regret that we cannot accept purchase orders or C.O.D.'s.

CALL 800-543-3000. Ask for operator #509. In Ohio call 800-582-1364. In Canada call 513-729-4300. Ask for operator #509. Phones open 24 hours a day, 7 days a week. Have your MasterCard or VISA ready.

These numbers are for orders only. For information, you must write to Sinclair Research Ltd., One Sinclair Plaza, Nashua, NH 03061.

sinclair

| | PRICE† | QTY. | AMOUNT |
|--------------------------------------|----------|------|--------|
| 12SN05 | | | |
| ZX81 | \$149.95 | | |
| ZX81 Kit | 99.95 | | |
| 8K BASIC chip (for ZX80) | 39.95 | | |
| 16K Memory Module (for ZX81 or ZX80) | 99.95 | | |
| Shipping and Handling | 4.95 | | \$4.95 |
| To ship outside USA add \$10.00 | | | |
| TOTAL | | | |

MAIL TO: Sinclair Research Ltd., One Sinclair Plaza, Nashua, NH 03061.

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†U.S. Dollars

The Most Up-to-Date
Reference to the
Worlds Around
You

The New Solar System

edited by
J. Kelly Beatty
Brian O'Leary
Andrew Chaikin

Sky Publishing Corporation and Cambridge University Press have just completed a major new book that synthesizes our current knowledge of the solar system. We are fortunate in having among our authors many eminent and articulate researchers, whose contributions bring together the most recent findings about the Sun, planets, satellites, and that which lies between.

The text of this new book is generously supported by hundreds of full-color and black-and-white illustrations, and its lucid, informative writing should attract readers of all backgrounds.

The Voyager 1 encounter with Saturn (November, 1980) culminated two decades of solar system exploration that has been particularly intensive in recent years. Phenomenal progress in planetary science, together with the regrettable hiatus in new programs expected in the near future, make *The New Solar System* a timely reference that should remain current for many years.

Since 1975, our understanding of the worlds around us has grown explosively thanks to the Viking mission to Mars, Pioneer 11's sweep by Saturn, the armada of Pioneer and Venera probes to Venus, and a pair of spectacular visits to Jupiter and its satellites by Voyager spacecraft. This new publication also includes the first Voyager encounter with Saturn, thus completing our volume just as the first great wave of planetary exploration draws to a close. Less visible but no less significant have been recent investigations of the Sun, Moon, asteroids, magnetospheres, and planetary ring systems. Only now can scientists begin to make meaningful comparisons of the geology and dynamic atmospheres of the worlds around us.

The results add up to an increasingly coherent understanding of the chemical and thermal history of the solar system, the accretion and fragmentation of its members, and the changing planetary surfaces.

Introduction *Carl Sagan, Cornell University*

1. **The Golden Age of Solar System Exploration**
Noel Hinners, Smithsonian Institution
2. **The Sun** *John Eddy, High Altitude Observatory*
3. **Magnetospheres and the Interplanetary Medium**
James Van Allen, University of Iowa
4. **The Collision of Solid Bodies**
Eugene Shoemaker, California Institute of Technology
5. **Surfaces of the Terrestrial Planets**
James Head, Brown University
6. **Atmospheres of the Terrestrial Planets**
James Pollack, NASA-Ames Research Center
7. **The Moon** *Bevan French, NASA Headquarters*
8. **Mars** *Harold Masursky, U. S. Geological Survey*
9. **Life on Mars?** *Gerald Soffen, NASA Headquarters*
10. **Asteroids** *Clark Chapman, Planetary Science Institute*
11. **The Voyager Encounters** *Bradford Smith, University of Arizona*
12. **Jupiter and Saturn**
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13. **Planetary Rings** *Joseph Burns, Cornell University*
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Torrence Johnson, Jet Propulsion Laboratory
15. **Titan** *James Pollack, NASA-Ames Research Center*
16. **The Outer Solar System**
David Morrison and Dale Cruikshank, University of Hawaii
17. **Comets** *John Brandt, NASA-Goddard Space Flight Center*
18. **Meteorites** *John Wood, Smithsonian Astrophysical Observatory*
19. **Small Bodies and Their Origins**
William Hartmann, Planetary Science Institute
20. **Putting It All Together**
John Lewis, Massachusetts Institute of Technology

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