

new products

Biology self-teachers

Ward's Natural Science Establishment is marketing a line of multimedia self-teaching programs in biology called Solo-Learn.

Each program—which consists of a filmstrip, audio tape, 25 student review sheets and a manual—covers some particular biological concept or process, such as photosynthesis. Standard filmstrip projectors and cassette-type tape players are the only equipment the school or student must provide.

The material is geared to high school and first year college students.

*Ward's Natural Science Establishment, Inc.
Rochester, N.Y.*

Circle No. 111 on Reader Service Card

Sunlight predictor

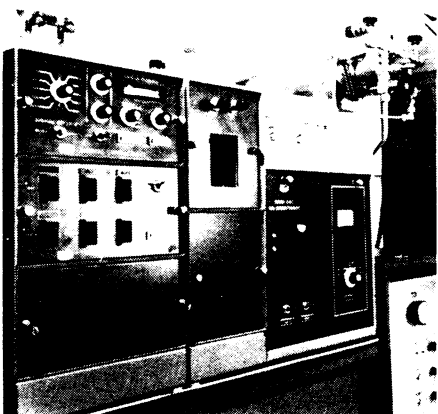
A British company has come up with a desk-top device to take into account most of the factors bearing on the amount of sunlight that would enter a planned building so architects can coordinate such information with their planning.

The instrument operates by simulating a ray of light from a patch of sky or the sun and projecting it onto a plan. Factors set on the instrument's scales include height, latitude, season, hour and others.

*Research Engineers Ltd.
London N1, England*

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Devices for local government



Cities, large and small, face immense problems—for instance, in the areas of crime and pollution. New pollution control laws require precise monitoring; crime detection sometimes depends on elaborate scientific analysis.

The Bendix Corp. is marketing a gas

chromatograph and mass spectrometer system for chemical analysis which it says is priced within the range of many cities and is particularly applicable to crime and pollution control.

The gas chromatograph separates chemical compounds, and the mass spectrometer identifies them sequentially. The company says the self-contained "laboratory" can identify 200 compounds in a sample mixture in an hour and a half.

*The Bendix Corp.
Sidney, N.Y.*

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Saltwater aquarium kit

Aquarium Systems, Inc., announces its Instant Ocean kit which it says offers students and teachers the capability of creating ocean-like environments in aquarium tanks at low cost.

Some possible experiments—which Aquarium Systems says previously required expensive life-support systems—include regeneration of echinoderms or crustaceans, embryological study with sea urchin gametes and study of fertilization, cell division and other biological functions.

Included in the kit are two filters, a filter mix, sea salts, a thermostatically controlled water heater; air pump, tubing and diffuser; hydrometer-thermometer and complete instructions.

*Aquarium Systems, Inc.
Eastlake, Ohio*

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Water pollution kit

Environmental studies are becoming increasingly important in education as new careers open up in this field. LaMotte Chemical Products Co. is offering a school water pollution analyzer for field or laboratory use. The company says it will teach students to obtain a meaningful profile of a water supply.

Some of the parameters that can be measured: Dissolved oxygen, nitrates, phosphates, pH, carbon dioxide, chlorides, ammonia, sulfides, silica, calcium, magnesium and total hardness.

Provided are compartmented polypropylene modules for each test. Tests are conducted with various replaceable chemical reagents, "micro burettes" which the company says are unique, color comparator units and other devices. Full instructions are included.

*LaMotte Chemical Products Co.
Chestertown, Md.*

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books OF THE WEEK

ANIMAL VARIETY—Lawrence S. Dillon—Brown, Wm. C., 1971, 2nd ed., 164 p., photographs, drawings, paper, \$2.75. Designed as supplementary reading in introductory biology and zoology courses. Morphological characteristics of the various taxa are condensed into diagrams and tables.

ANNUAL REVIEW OF PSYCHOLOGY, Vol. 22—Paul H. Mussen and Mark R. Rosenzweig, Eds.—Annual Reviews, 1971, 645 p., \$10. Review articles cover a broad range of topics, from basic drives, behavioral genetics, and psycholinguistics to mass communication, personality, and behavior therapy.

COMMUNICATION BY CHEMICAL SIGNALS: Advances in Chemoreception, Vol. 1—James W. Johnston, Jr., David G. Moulton and Amos Turk, Eds.—Appleton, 1970, 412 p., illus., \$21. The source, nature, effectiveness and action of pheromones are examined, focusing primarily on insects, fish and reptiles. Chemical signals in mammals—including mice, monkeys and man—are also discussed.

COUNTERBUDGET: A Blueprint for Changing National Priorities 1971-1976—Robert S. Benson and Harold Wolman, Eds. foreword by Sol M. Linowitz—Praeger, 1971, 348 p., tables, paper, \$2.95. Prepared by the staff of the National Urban Coalition, offers for debate an economic and political analysis of possible alternatives over a five-year period.

DEEP OCEANS—Peter J. Herring and Malcolm R. Clarke, Eds.—Praeger, 1971, 320 p., color plates, photographs, drawings, maps, \$18.50. Leading British and U.S. scientists of many different disciplines describe how their respective branches of science have approached the study of deep oceans—the hardware and software used, the physics and constituents of ocean water, the flora and fauna, and sea-floor crust.

ENVIRONMENT AND MAN—Richard H. Wagner—Norton, 1971, 491 p., photographs, diagrams, maps, \$7.50. A popular, well organized and fully illustrated overview of environmental relationships, from man adapting to environment to man-made environment, abuse of environment and developments of technology.

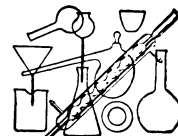
THE UNIVERSE OF THE MIND—George E. Owen—Johns Hopkins Press, 1971, 349 p., illus., \$15; paper, \$4.95. An elegant presentation of the history of mathematical thought, based on a teaching seminar in the adult education program at Johns Hopkins.

WHERE HAVE ALL THE FLOWERS, FISHES, BIRDS, TREES, WATER AND AIR GONE? What Ecology Is All About—Osborn Segerberg, Jr.—McKay, 1971, 303 p., \$6.95. A lively discussion of ecology, of closed, stable and diverse systems, man's entry, the advance of civilizations, and the symptoms of some disturbing influences.

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