SCHOOL AND YOUR CHILD

# **Biology Is Fascinating** As Hair-Raising Show

Biology, the study of life, is required for most pupils in the tenth grade. A few schools offer it to bright ninth-graders. Eight of ten high-schoolers take the course, usually their only science study. Only three take chemistry. Two take physics.

Biology's purpose is to provide students with knowledge to better interpret and appre ciate life around them, says Dr. F. Ray Derrick, chairman of the biology department of Appalachian State Teachers College. It can be as fascinating as any hair-raising television show.

Pupils go beyond the textbook in biology. Field trips and laboratory experiments verify the ories read about. Representative species of the animal and plant world, some of which can be seen only through a microscope, are examined. Larger specimens are dissected in labs, with students actually probing the insides of animals organ by

Biology courses usually begin with the simplest form of life as true merely because the textand move step by step toward

The one-celled amoeba, for example, is one of the first animals studied. This microscopic organism has no eyes, legs, or mouth. In fact, it's a mere blob in his mind. of grayish jelly. Yet the amoebe moves, ingests food, grows, and reproduces - it's certainly

And there's the euglena — both plant and animal. In light it lives as a green plant, in dark as an animal.

Advancing toward the more complex, the budding biology pupil takes apart the earthworm. Seeing its simple digestive system, the youngster is better able to understand the labyrinthine human digestive organs at a later stage in his studies, according to Dr. I. W. Carpenter, Jr., an associate professor of the biology department at Ap- WOMEN SALESMEN

He then looks closely at the grasshopper, learning about aparms and legs.

And the crayfish comes in for a laboratory breakdown, too. Still being dissected in most

biology labs is the traditional frog, whose internal parts are similar to the human's.

Advanced students even dissect foetal pigs and cats. "Porkies" are better than frogs be cause of their even greater similarity to human internal struc-

But each pig costs about \$2 and a cat \$9, so they're usually too expensive for high school instructional budgets. In fact, few lab specimens are cheap. Biological supply houses sell grasshoppers for about 15c each, frogs at 70c. This adds up since every student dissects his

Socrates said, "Know thy-

In a way, biology offers the pupil this opportunity. After ing lower animals, he learns about his own body struc ture, its digestion of foods, res piration and exerction, blood and circulation, reproductive and nervous system.

Plants come in for detailed study, too. Plants make all life possible, since they indirectly provide food and oxygen.

Biology includes studies of heredity and evolution, enabling pupils to better understand how



believe I was gored by

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Although biology subject mated, a radically new approach to teaching it is being devised by leading scientists and teachers at the University of Colorado, where the American Institute of Biological Sciences has set up the Biological Sciences Curriculum Study.

Chairman of the study, largely financed by the National Science Foundation, is Dr. Bentley Glass of Johns Hopkins Uni-versity. Its full-time director is Dr. Arnold B. Grobman of the University of Florida.

BSCS advocates that teachers now require students to learn biology more through ap-plication of the "scientific method" than by consulting books and memorizing definitions and explanations.

The scientific method is a classic procedure which establishes fact through experimentation. In short, the pupil following it doesn't accept a principle book or teacher said so.

He conducts his own exper iments to find out. This "seeing for himself" enables him to better understand scientific principles. And they'll stick longer

Knowledge and practice with thirty years ago. the scientific process have ex-cellent transfer value. Knowing how to separate fact from fiction helps one to face problems as an adult. He can vote more intelligently. He'll be less sub ject to prejudice.

To make this increased scientific practice possible, the new BSCS biology curriculum calls for laboratory "blocks" repre-senting six weeks of work in the spring when the pupil has some foundation on which to build.

The number of women who do door-to-door selling is now up to 700,000.



visited the Appalachian State Teachers College campus to interview prospective teachers. Pictured, left to right, are Mary Joe Isaacs, supervisor of Winston-Salem schools; Monroe Johnson, principal of Waughtown Elementary School; Louise Shelton, director of guidance of Winsten-Salem schools; Dr. Ben Horton, chairman of ASTC department of education; and Tom Beach, principal of Moore Elementary School. Bob Randall, ASTC director of placement, said that the group represented both Forsyth county and Winston-Salem city schools with 43 ele tary schools, 15 junior high schools and 10 high schools.-Larry Penley photo.

## Farm Bureau I

By VERNE STRICKLAND visions which still affect us N. C. Farm Bureau Federation day.

Are farmers lonesome people? We don't know what a psychiatrist would say. But a rural sociologist would probably point out that farmers today have fewer neighbors than they had

That sociologist would tell you that in 1930 about half of North Carolina's population lived on farms, but only 17.7 per cent of the people do today.

That's a cold fact. And that last figure applied when the 1960 census was taken. We've had three years of migration to urban areas since then. Let's not discuss the reason for it here, let's look at the repurcussions-and one in particular Let's fix our eye on the General Assembly of North Carolina,

In the century just past, the worthy legislators of that day pounded out some laws on representation. We are particularly interested in a couple of pro- is just for emphasis and not be- for the undertakers.

The first has to do with the Senate. It provides that following each census, senatorial dis-tricts will be adjusted so as to be pretty near even in population. It fixes the Sepate at fifty

House shall be reapportioned following each federal enumera-

Now we have abided by about half of these rules. We leveled out the House in 1961 according to plan. But the Senate has not been redistricted since 1941. Why? Well, our representatives haven't been able to come to terms on this one since then.

There are a whole lot of reasons for this balking. But one shines a little brighter than the others. Look back up this column a few paragraphs and read that place again that says peo ple are leaving the farms. This

Your All-Time Favorite!

cause I thought you might for-get. But those people are con-gregating in the cities.

Now, if we continue to set up representation in both Assembly houses on a population basis, you can bet your bottom dollar the farmer will be a lone some guy. Not only will he be missing his neighbors, but he won't have anybody to shout for him in our new State House Rural folks are fearful that a congregation of senators may someday rule the legislature from a few metropolitan areas in the State.

And it's possible.

We can borrow from Uncle Sam on this one. He has the Senate set up so each State is guaranteed two seats. Representation in the House is solely on the basis of population. This way the little guys don't get so badly tromped on by the big guys. And Senator don't wind up living next door to one another. It's something to think

Speeding is profitable only

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# **News Report From Washington**

in coming to power in a nation sly confused and paralyzed. Because of his triumph, the Western world is divided

De Gaulle had a long wait— patiently holding on until the right moment. And once again the free world must pay the egotist - nationalist in firm control of an obedient and cowed

These are the relizations facing Washington today and which have been appreciated by some in the State Department since early in 1962. The latest ominous relization is that De Gaulle, heading the European Common Market if he can, intends to have a grand-scale trade war with the United States.

Moreover, he intends to push the United States out of Europe and favors a three-force world, not a twoforce world composed of the free democracies of the West and Communism. He sees West Europe as his playground, Washington cannot intervene while the United States and in German affairs to the extent Russia would be other major forces in the world.

This grim prospect is now being faced by the Kennedy Administration. The question is what the United States can do about it. One of the first moves is President John Kennedy's visit to Italy and West Germany a few months hence.

Italy seems sufficiently alarmed by the De Gaulle threat. West Germany and its Chancellor particularly, have been De Gaulle's most noteworthy acquisition. Chancellor Konrad Adenauer was won over by De Gaulle at the same time he was embittered against Secretary of State Dean Rusk. This unfortunate fact is having grave consequences and could have even greater

Adenauer in recent days has been doing a tightrope act, as military strength began moving He was booked on a charge of suring majority sentiment in out, leaving West Germany to drunken driving.

but he has said nothing to sho how he could accomplish his end. And he alone could have forced President De Gaulle to retreat from his adamant position, blocking British entry, before he signed the Franco-German alliance in January. He

did not do so. The inescapable conclusion is that Adenauer is paying lip service only to those who desire a truly united Europe, including Britain and Scandinavia. He is giving advocates of real European union words, but not productive deeds.

Since France and Germany are the two key countries in Western Europe, the United States must win back West German allegiance, which was lost in the Rusk-Adenauer fued. President Kennedy will attempt to do this. Also, the United States feels its interests would he served if Adenauer stepped he would step aside only in the fall-and many think he will try to avoid resigning then.

that it delves into internal politics, but as long as Adenauer is captivated by De Gaulle, the goal of seeing Western Europe united remains unattainable.

The upcoming trade ware between the ECM and the United States (which is certain if De Gaulle has his way) may also seriously affect the U.S. balance of payments battle. All in all, the picture in the foreign policy field is darker than it has been since the Korean War. One of the results of the new

situation might be reduced U. .S foreign aid (France has received more than any other country) and reduced U. S. military committment in France and white line on the floor. certain other West European countries. This would please De Gaulle, but it may cause shivers in West Germany, when U. S. police.

Washington, D. & — Charles side Germany that he, too, fa- depend on France for protection Gaulle of France, like Adolph vors British entry into NATO, against Russia.

in the game with Adenauer. Should U. S. military forces threaten to leave, Adenauer's government is likely to fall. The French are not strong enough to take over the U.S. role in defense of the West and never

### Sales Increase Reported By Winn-Dixie

Winn-Dixie Stores, Inc., recorded a 7.40 percent increa in sales during the 32-week period ended February 9, compar ed with the corresponding period a year ago, it was announce

The volume was \$506,927,942 comparde with \$471,983,417 last year, an increase of \$34,944,525. For the four-week period end-ed February 9, sales were \$64,-869,421 compared with \$60,-956,893, an increase of \$,932,528

or 6.5 percent over 1962. An increase also was recorded for the 52-week period ended February 9, when sales totaled \$807,192,587 compared with \$766,001,229 last year, an increase of \$41,191,358 or 5.38 per-

Winn-Dixie, which operates a number of supermarkets in the local area, now has 601 retail stores throughout the South compared with 547 units a year

#### THE STRAIGHT LINE

Norwich, Conn. - Police took Napoleon Gendreau, 52, to head quarters after his car jumped the curb and hit a house.

He was propped against a wall and told to walk a straight

"Can I do this tomorrow? I can do it much better in the

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