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THE middle school concept as applied by the Denver, Colorado, Public Schools in their projected building program will include grades 4-6 in new schools to be built in the central and northeast sections of the city. These "intermediate schools," as they will be called, are described, in literature prepared to provide information on a bond issue election, as assisting in the problem of dealing with de facto segregation as well as relieving overcrowded schoolhousing. The new program would require the bussing of 4500 to 5000 children but it is believed that the new construction would cut back on present bussing so that the net result would be little or no increase in numbers of pupils transported by bus.

In-service Education in Austin

Courses available to teachers in the Austin, Texas, Public Schools this year include one in physical science to prepare for a state-required change-over from general to physical science in grade 9 and sessions in linguistics described as "a forerunner to introduction of new English." Substitutes are pro-

vided for elementary teachers participating in follow-up conferences based on the summer workshop held to begin study of the science program of the American Association for the Advancement of Science.

Drill Work in Math

The fifth-grade teachers in Austin's Brentwood School, concerned about the number of pupils reaching that level without proficiency in the processes of addition, subtraction, multiplication, and division, have initiated a new program of intensified attention to these processes, in which

... each fifth grader has two math periods each day: one in his homeroom, where regular instruction is given, and one in math "central control"—a large double room where he devotes 30 minutes to carefully planned drills at his own level of understanding.

Bulletin on Teacher Aides

Aides for Florida Teachers, a bulletin developed from a conference held last June, is now available from K. Fred Daniel, State Department of Education, Tallahassee.

Survey of Innovations

Florida is conducting its second survey of innovative programs and practices. The information will be issued, as was that collected last year, for general distribution to interested school systems.

In-service Education in Science

Intermediate grade teachers in the Cincinnati, Ohio, Public Schools have eight in-service opportunities available to them this year. Four of these have been planned around new materials or equipment, including the bioscope and the Xerox units on "The Earth's Crust" and "The Green Plant." Four are to be conducted by the Science Exchange Planning Committee and will include sessions on light and weather and one on pilot studies in the school district.

Denemark in Kentucky

"Leadership for Today's Urban Schools" was the topic of an address given by George Denemark, new dean of the School of Education at the University of Kentucky, at a recent city-wide meeting of principals in Louisville.

Security in Jacksonville

A new one-man department has been added to the Duval County, Florida, Public Schools (Jacksonville). This past year the security office, which it is hoped can soon be augmented by additional staff, in addition "to fingerprinting every person employed in any capacity and making numerous investigations of personnel," "identified 51 persons who were involved in break-ins

or vandalism, and recovered more than \$6,200 in stolen property and restitution in cash for vandalism."

Study of Clerical Aides in Tulsa

Jack Griffin, research assistant for federal programs in the Tulsa, Oklahoma, Public Schools, reports on a study made of roles and duties of 107 aides in that school system (*Tulsa School Review*, November 1967). Using a questionnaire listing 47 "duty descriptions," categorizable in four groups, the study revealed that at the elementary level, 72 percent of the aide time is spent on clerical-mechanical duties, 20 percent on monitorial duties, and four percent on each of the other categories—health-related and extracurricular duties. At the secondary level, clerical duties accounted for 96 percent of the time, with two percent for health-related and one percent each for monitorial and extracurricular duties.

New Discussion Pictures

"Discussion Pictures for Beginning Social Studies" is a new set of large photographs, 90 altogether, selected in terms of 18 personal-social themes—five pictures per theme. The pictures were chosen by Raymond H. Muessig, who is also responsible for the guide to the use of the pictures (Harper and Row, Publishers).

Computerization in Kansas City

"Plans call for programs that will be of the interactive type causing the total involvement of the learner in an active participation format." This is the general idea behind plans developed for the teaching of junior high math by com-

puter in the Kansas City, Missouri, Public Schools, according to a recent issue of *Our Schools*, the district's newsletter.

The learner's "experience will be enriched by the multimedia aspect of the computer terminal linking him to the lesson and therefore to the teacher who prepared it. Cathode ray tubes (CRT), automatic typewriters, and a slide library with image projector at each terminal station will ensure a variety of methods to present information, accept responses, and stimulate interest on the part of the learner."

The district expects the first set of 16 terminals to be in operation at Bingham Junior High School in 1968.

Media Standards in Madison

Standards for equipment to be supplied in elementary school instructional materials centers in the Madison, Wisconsin, Public Schools include the following:

minimum of 3 filmstrip previewers plus 1 for each 250 students over 500

1 overhead projector

1 dry-mount press

1 primary typewriter

3 phonographs plus 1 per 250 students over 500

2 tape recorders plus 1 per 250 students over 500

2 headphone multijack boxes with eight positions plus 1 per 250 students over 500.

These standards are to be met during 1968.

Pupil Personnel Service Teams

Meetings of pupil personnel service teams are being scheduled on a basis of at least one meeting each month in

Richmond, Virginia, Public Schools this year. Personnel includes the counselors and nurses serving daily in a school plus regularly assigned psychologists and visiting teachers. In addition to the principal and the teachers of the students under discussion, the team may involve the school physician, a school-community coordinator, vocational rehabilitation counselor, consulting psychiatrist, a representative of curriculum services, and representatives of community agencies.

School Resource Officers

Seven policemen have been assigned to service in eight senior high schools of Cincinnati, Ohio, following a series of outbreaks in the first months of school this year. The School Resource Officer program, as it is called, will provide for:

Protection of the school, students, and staff

Close contact with students to head off delinquency

Investigation of any delinquent acts within the school neighborhood

Direct service to neighborhood residents in school-related programs.

Cultural Aides in St. Louis

Twenty-one schools in the Enright District of the St. Louis, Missouri, Public Schools are involved this year in an expansion of the ongoing cultural enrichment program. Fifteen new part-time teachers, all widely traveled, have been added to the staff of "The Springboard to Learning" project. The new teachers include a poet, a recent Peace Corps worker, an expert on the United Nations, a folk singer, and a professor of French literature.

Elementary PE in Fort Worth

Thirty-three of the Fort Worth, Texas, elementary schools have physical education teachers this year. The new program will be extended next year to include all elementary schools.

New Emphasis on In-service Education

In the process of staff reorganization in Fort Worth, Caroline Locke has been appointed director of teacher training in a move to give added emphasis to in-service education. Present plans call for a group dynamics seminar for principals and "the possibility of released time for teacher participation in in-service programs in their own buildings."

Children's Books from Europe

Circulating among the elementary schools of Albuquerque, New Mexico, this year is a collection of children's books purchased in Europe last summer by Lois Dittmer, librarian of the MacArthur School.

Community Colleges in Pennsylvania

Community colleges in Pennsylvania, first authorized in 1963, now number seven. By the end of this school year, the number is expected to reach 12, with a projected enrollment of 21,450.

San Diego Leads in Reading Scores

On the new state-required primary reading tests, pupils in the San Diego, California, City Schools surpassed others, as reported in the district's *Staff Bulletin Board*:

The average first-grade pupil in San

Diego scored better than 66 percent of pupils statewide, while the average San Diego second grader achieved better than 62 percent of the state's second-grade enrollment.

Thirty-nine percent of San Diego's first graders and 34 percent of second graders scored as well as the top quarter in the state, while only 10 percent of first graders and 13 percent of second graders scored at the level of the state's lowest quarter. Results also indicate improvement over the previous year in the district itself.

Human Relations Films for Staff

Five half-hour films on human relations, produced locally, will be telecast to San Diego teachers in an expanded program of in-service education in the field of intergroup understanding. The films will be telecast at 3:30 p.m. on Mondays so that school staffs may meet to see and discuss them. Principals will have an opportunity to preview the films and may schedule them for later or follow-up use in the schools.

TV News Quiz with Students

Weekly TV news quizzes are presented by KWTW in Oklahoma City, Oklahoma, using a pair of two-member teams from the city's high schools pitted against each other. School teams may make 30-second announcements about school events.

For Inventors in Toledo

Bernice Dunn, first-grade teacher at Keyser School in Toledo, Ohio, provides her pupils with an "inventors' table," which offers such materials as dyed and pulverized eggshells, paper cups, corks, beads, wooden spoons, spaghetti, and styrofoam, all arranged on a lazy susan for easy access.

It Happened in Arkansas

Mrs. Mills' first grade at Kramer School (Little Rock) was singing "All Night, All Day, Angels Are Watching Over Me." When the song was finished, one boy kept right on: "All Night, All Day, Angels Are Walking Over Me."

New Music Kits

Also in St. Louis, a new program supplies music kits containing records of selections from jazz to classical music to classrooms of 90 federally designated elementary schools. The albums are circulated at four-week intervals. ☞

Index to Advertisers

Addison-Wesley Publishing Company	548, 566
American Book Company	564, 588
Appleton-Century-Crofts	516
Benefic Press	544
The Bobbs-Merrill Company, Inc.	568-69
Creative Playthings/Learning Center	556
Coronet Films	604
Grolier Educational Corporation	552-53
Harcourt, Brace & World, Inc.	558
Harper & Row, Publishers, Inc.	540
Highlights for Children	578
Holt, Rinehart and Winston, Inc.	584
Lyons & Carnahan	542
The Macmillan Company	572-74
McGraw-Hill Book Company	554
New Horizons Publishers, Inc.	590-91
A. J. Nystrom & Co.	570
A. N. Palmer	592
Prentice-Hall, Inc.	537, 580-81
Rand McNally & Company	560
Scholastic Magazines & Book Services	582
Science Research Associates	538, 576, 602
Scott, Foresman and Company	562
The L. W. Singer Company	594
Standard Publishing Co.	586
3M Company	598
Wadsworth Publishing Co., Inc.	546-47
Weber Costello Company	550

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