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ABSTRACT

This report concerns the development of a new, learner-oriented high school curriculum, designed toward behavioral objectives, that would be feasible for 12-month, 4-quarter schools. Task forces, aided by systemwide and school-area inservice workshops, recommended the development of 506 courses in 12 subject areas and completed curriculum guides for 357 of these courses. Background information on the 12-month school; the organization, membership, and recommendations of the task forces; a bibliography; and a summary of findings from questionnaires administered to pupils, parents, teachers, and others for their reactions to the 12-month school are included. (Author/MLF)



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### FINAL REPORT

PROJECT NO. 8-042**0**GRANT NO. OEG-0-8-030420-4317(010)

## CURRICULUM REVISION BASED ON BEHAVIORAL OBJECTIVES FOR TWEIVE-MONTH, FOUR-QUARTER SCHOOLS

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March, 1971

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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### I. SUMMARY

The problem under investigation in this study was the feasibility of curriculum revision for the operation of twelve-month, four-quarter schools. A two-year grant from the Bureau of Research of the United States Office of Education enabled the school system to conduct this project. A review of the literature on year-round schools had indicated various possible advantages and disadvantages and had revealed that a number of school systems had previously tried and later abandoned the plan. Nevertheless, in Atlanta it seemed that the potential advantages of twelve-month, four-quarter schools promised to be greater than the disadvantages, particularly since some of the disadvantages of previous years either (1) no longer exist or (2) now can be overcome. Chief advantages envisioned for the new plan included the following: a revised, revitalized, learner-oriented curriculum; schools in which the pupils might artend any three (or all four) quarters; new courses relevant to the pupils' needs; additional opportunities for pupil acceleration; fulltime employment for those teachers who desire it; increased flexibility for family vacations; more part-time jobs for pupils; a steady flow of part-time pupil labor for businessmen throughout the year; better opportunities for pupils to take remedial work (at the end of a quarter instead of at the end of a semester); better pay for teachers; fewer double sessions and overcrowded schools; and full utilization of school facilities and personnel.

On the other hand, the potential disadvantages of the new plan seemed to have diminished in recent years for the following reasons: (1) pupils in Atlanta have no need for a short school year to enable them to work on farms; (2) air conditioning in modern school buildings has eliminated the discomfort of conducting classes during the summer quarter; (3) under the Atlanta plan pupils and parents would be given complete freedom to choose the quarters that the pupils would attend; (4) school plant maintenance would be scheduled between quarters, during holidays, on week ends, at night, and at other times; (5) problems related to pupil transfers would be minimized, since six school systems in the Metropolitan Atlanta Region simultaneously had adopted the new plan; (6) use of the computer for rescheduling pupils would make quarterly scheduling practical; and (7) there was some hope that the additional costs required to keep the schools in operation during four quarters (instead of three quarters) each year might be provided from state funds. Accordingly, since the remaining potential disadvartages seemed to be considerably smaller than the remaining potential advantages of the new plan, Atlanta initiated this project to investigate once more (now under new conditions) the feasibility of twelve-month, four-quarter schools.

The major objective of this project was to develop a new, learner-oriented, revitalized, high school curriculum in terms of assessable, behavioral objectives and to organize it into a twelvementh, four-quarter program for pupils.



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The following major steps were taken in project implementation:

- A. Fourteen task forces (one for each of thirteen major curriculum areas and one for counseling) were organized and set in motion.
- B. Under the umbrella of educational goals for the school system, specific objectives were developed for each course in the curriculum.
- C. Instructional resource materials and media were inventoried and catalogued for each course.
- D. Mode-media mixes were devised to determine and to utilize the most effective strategies for accomplishing the specific objectives in each course.
- E. The revised corriculum was field tested and is being modified in accord with the results of its field testing and evaluation.
- F. Inservice education has been provided for the entire secondary school staff, to prepare them for successfully utilizing (and continuously improving) the new curriculum.

Membership on the curriculum-development task forces has involved 238 teachers, 13 counselors, 9 librarians, 20 resource teachers, 15 curriculum coordinators, 66 consultants, and miscellaneous other persons. Furthermore, the field testing and revising of the curriculum guides have involved great numbers of additional people throughout the school system, particularly classroom teachers in the specific subject area fields.

To facilitate the work of the curriculum-development task forces, 54 system-wide inservice workshops and 18 school-area workshops (total of 72 workshops) were held during the developmental period. In these workshops the task forces recommended the development of 506 courses in 12 subject areas, and curriculum guides for 357 of these courses have already been completed. Furthermore, additional courses are being field tested in pilot schools at the present time.

After three quarters of operation under the new organizational plan, the Supplementary Educational Center of the Metropolitan Atlanta Region conducted an opinion survey which revealed that pupils, parents, and teachers support year-round schools and unmistakably consider that the advantages outweigh the disadvantages.

This project has produced a number of curricula improvements. A strong effort has been made to redesign all curriculum guides around performance objectives, leading to more independent work and more individualized instruction for pupils. New courses have been added, and old courses have been revised to increase their relevance.



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The new curriculum has been made more flexible -- providing additional pupil options for advanced courses, for remedial work, for independent study, and for changing courses without an undue loss of time. The workshops, the consultants, and the new curricula guides have stimulated teachers to make numerous improvements in their use of media and strategies in instruction. However, the principal benefits from this project seem to be as follows:

- A. A revised, updated, more flexible and more relevant curriculum in the disciplines in which the school system concentrates.
- B. A cadre of trained teachers and administrators experienced in the application of behavioral objectives and technology to teaching problems.
- C. An in-school climate receptive to further curriculum change and improvement, which means that the impact of this project will continue into future years.

To insure continued progress under the twelve-month, four-quarter plan, the following additional steps need to be taken:

- A. Provide preservice training in the new curriculum for all teachers new to the school system.
- B. Provide inservice training opportunities to foster the continuous professional development of all teachers, departmental chairmen, and principals.
- C. Continue the process of revising the curriculum guides, to keep them updated and relevant.
- D. Devise a better means of initially selecting teachers and of subsequently encouraging them to innovate and to grow professionally.

### 11. BACKGROUND INFORMATION

In recent years many person; have been asking pointed questions concerning the role of the public schools. A few of these questions will serve to introduce the problem under consideration. Why should school plants costing millions of dollars lie idle during one-fourth of the year? When there is more to be learned (and more problems to be solved) than in years past, why should pupils not be afforded the opportunity to remain in school during the entire year? In a city the size of Atlanta what is the logic of turning 120,000 pupils into the streets all at the same time? In cities, where there is no need for pupils to work on their parents' farms, why should



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school plants be left idle during the growing and harvesting periods of the year? Why shouldn't bright or ambitious pupils be given the opportunity to attend school all year, thus providing them the option of completing high school earlier? Why shouldn't teachers have the option of full-time employment with increased compensation like employees in other vocations? Why shouldn't families be able to take their vacations together during any time of the year instead of confining the choice to the hot summer months? Wouldn't more parttime jobs be available to pupils if they were not all looking for work at the same time? Wouldn't the needs of business for part-time employees be better served if some pupils were available for employment Shouldn't pupils have the opportunity during each quarter of the year? to make up work at the end of each school quarter instead of only at the end of a semester or a school year? Since there is a need for curriculum revision and improvement, why not use the concept of twelve-month, four-quarter schools as a means of accomplishing eifective curriculum revision? These questions and others like them presented Atlanta with a problem; namely, should a new approach to school organization and curriculum revision be tried in Atlanta?

### The Problem Under Consideration

Accordingly, the problem which Atlanta faced was whether to continue school operations as in the past or whether to try a different approach which might offer opportunities for pupil growth, pupil acceleration, curriculum improvement, full-time employment for teachers, increased flexibility for family vacations, more part-time jobs for pupils, a steady flow of part-time pupil labor for businessmen throughout the year, better opportunities for pupils to take remedial work, more variety and flexibility in course offerings, better pay for teachers, fewer double sessions and overcrowded schools, and better utilization of the school plants, which otherwise would lie idle during one-fourth of the year. In the business and industrial world, facilities, and the people working in them, are utilized during the entire year, to manufacture goods and to offer them for Isn't the need to offer full time educational opportunities for people of equal importance, so that school facilities also should be fully utilized? Furthermore, when there is so much to be learned in the world today and when there are so many complicated problems to be attacked and solved, isn't it logical to operate the schools all year, to afford the pupils opportunities to gain in knowledge and in problem-solving skills? These considerations, in essence, led to the problem under consideration, the feasibility of curriculum revision for the operation of twelve-month, four-quarter schools.

### Review of Related Research

Before Atlanta decided to embark upon curriculum revision for twelve-month, four-quarter echools, a review of related research was made, based upon a study of the 49 selected references which are listed in Appendix 1. In general, the professional literature and



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past research studies have been based on the concepts that there should be a better utilization of the school plant, school personnel, and instructional materials; that education should not end in June and begin again in September; that school should be organized on a year-round basis like business and industry; and that extending the school year would offer additional educational opportunities for pupils.

The all-year school was advocated during World War I and World War II and in the years immediately following. A survey of the literature indicates that it was a subject of much consideration between 1924 and 1931 and again between 1947 and 1953, during times when building costs were rising and the school population was growing.

Historically, various reasons have been advanced in support of the all-year school. It was hoped that educational costs would be cut, that school facilities would be used more efficiently, and that dropouts would have reached higher educational levels before they left school. Many persons argued that a considerable savings could be realized in building construction by fully utilizing existing school facilities instead of constructing new plants to accommodate the increasing public-school enrollment. With building costs continually rising, this argument has been a strong one. Others argued that fewer teachers would be needed to staff the schools, since those employed would work on a year-round basis, thus saving money which might be used for increasing teacher salaries, which, in turn, would eliminate the necessity of teachers working at temporary employment during the summer months. Others argued that employing teachers all year would help to alleviate the shortage of qualified teachers, since fewer teachers would be needed. Still others pointed out that bright pupils might be accelerated, while additional opportunities would be afforded slow learners to make up work in which they previously had not been successful. Some claimed that juvenile delinquency and teen-age crime would be reduced, since pupils would be kept busy in school all year. Another powerful argument was that the amount of knowledge to be learned today necessitates extending the time in which to teach it. Furthermore, bright pupils might accelerate with a possibility of completing twelve school years in nine and of entering college earlier.

Various types of all-year school plans were reviewed as follows:
(1) operation of the schools on a four-quarter system with rotating attendance; (2) operation of the schools throughout the year for all pupils; (3) summer school to supplement the regular school year for make-up work, acceleration, enrichment, camps, recreational programs, and the like; or (4) an extended-service term for teachers, with emphasis on inservice training activities. The most frequently proposed all-year school plan was the four-quarter system with rotating attendance. However, it was found that a number of school systems had already tried and abandoned this plan for various reasons, including the following: (1) the difficulty of conducting classes



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on hot summer days without air conditioning, (2) the dissatisfaction of pupils and parents when the all-year plan failed to let the pupils choose the quarters they would attend, (3) the difficulty of school-plant maintenance with schools constantly in operation, (4) the problems of handling pupils transfers in and out of twelve-month, four-quarter schools, (5) the possible increase in administrative problems from rescheduling pupils each quarter, and (6) the additional costs required to keep the schools in operation during four quarters (instead of three quarters) of the year

Nevertheless, the many potential advantages of tweaver oath, four-quarter schools seemed to outweigh the disadvantages, partitularly since ways to overcome many of these disadvantages lere possible. For example, Atlanta has for several years been air conditioning all new buildings and all additions to old buildings, to make these structures usable year round. The computer has been used for scheduling classes, to reduce the administrative load of scheduling pupils four times each year. Pupil, parent, and teacher dissatisfaction have been largely avoided with the new plan by allowing pupils to choose the quarters that they would attend and by allowing the teachers to decided whether or not they would teach during the fourth quarter. Cleaning and repair of school plants are being performed at night, on weekends, or during brief holiday periods, thus reducing somewhat the costs of vandalism, which previously had occurred in vacant school buildings. The problem of pupil transfers into Atlanta or from Atlanta to other school districts has been substantially reduced, since the following six school systems in and near Atlanta simultaneously adopted the twelve-month, four-quarter plan: Atlanta Public Schools, City Schools of Decatur, Clayton County Schools, Cobh County Schools, Gwinnett County Schools, and Marietta Public Schools.

Furthermore, certain other school systems in the past had adopted the year-round-school plan for the purpose of saving money, principally by reducing capital outlays for the construction of school buildings. In Atlanta a different primary objective was envisioned; namely, to provide improved educational opportunities for the pupils. Therefore, in the process of reorganizing the curriculum into four quarters, a comprehensive effort would be made to revise and update course offerings for the pupils. Accordingly, Atlanta began a program in curriculum revision for twelve-month, four-quarter schools.

### Philosophy

The philosophy of the local school system, which represents the thinking of those who participated in this project, is as follows:

A. We believe in the pupils of this city and in the future they represent. We believe that the Atlanta Public Schools can and should encourage responsible participation in a constantly changing democratic society.



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- B. We believe in the dignity and worth of each individual and in his right to know and feel his own worth. We believe that as an individual recognizes his own dignity and worth, he will respect the rights and privileges of all other persons.
- C. We believe that pupils must have opportunities to develop ways of evaluating what they experience and of drawing conclusions concerning ways either to make an orderly change in their environment or to adjust to the situation.
- D. We believe that learning is continuous an' is effective only in terms of its relevancy to life. School is but one part of the educational process and should be positively related to the pupil's total world. Continuous commitment of the community through involvement in the entire educational program is vital.
- E. We believe that continuous evaluation of the program and constant professional and personal growth of school personnel must be integral parts of an effective educational process.
- F. We believe that the best possible physical setting, materials, equipment, professional, and community leadership must be provided.
- G. We believe that man can plan for and guide change, and we feel the obligation to shape the educational program in a way that will facilitate reaching our ultimate goal -- the development of self-disciplined, free men.

### Educational Goals

The educational goals of the local school system, which those who implemented this project helped to formulate, are as follows:

The Atlanta Public Schools will endeavor to enable each child to move successfully toward the development of his unique potential for life by:

- A. Involving parents in the establishment of curriculum bjectives and supporting their responsibility for amplifying and reinforcing positive behaviors and attitudes in the home as well as in the school.
- B. Strengthening initial learning experiences of all pupils.
- C. Developing proficiency in the thinking processes and in the academic, social, and physical skills which are fundamental to further learning and effective living in society.



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- D. Providing a climate for creative expression, divergent and convergent thinking, and appreciation for the aesthetics.
- E. Developing ability to identify problems, to think critically about alternatives, to act constructively toward their solutious, and to assume responsibility for choices.
- F. Providing each pupil with experiences of success and accomplishment, which will aid him in developing a positive self-concept evidenced by an awareness of his personal capabilities and limitations and the ability to set realistic goals for himself.
- G. Providing learning experiences for each child by varying content and method as necessary to meet his individual needs.
- H. Developing respect for the human worth and dignity, and for the efforts and ability, of each person.
- Developing an understanding of the individual's rights, privileges, and responsibilities in order to strengthen democracy.
- J. Encouraging the development of a meaningful, humane personal value system which will allow for receptivity to change.
- K. Developing an appreciation and responsibility for sound mental, emotional, and physical health and an understanding of why and how they should be achieved and maintained.
- Providing an adequate understanding of the natural and physical environment and how to use it for man's immediate and long range benefit.
- M. Developing in pupils the desire and ability to assume an increasing responsibility for their own learning and for its continuance throughout life.
- N. Developing an understanding of and positive attitude toward work.
- Assisting pupils in developing ways of making wholesome, satisfying, and productive uses of leisure time.

### Objective

The major objective of this project was to develop a new, learner-oriented, revitalized, high school curriculum in terms of assessable, behavioral objectives and to organize it into a twelvementh, four-quarter program for pupils.



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### III. METHODS USED

### Rationale

Complete revision of curricula in Atlanta was long overdue. The determination to plunge into the four-quarter plan in the Atlanta Public Schools provided the opportunity for rewriting the curricula in all disciplines. The failure of the four-quarter plan in other school systems in which existing curricula had simply been cut into new time segments indicated that entirely new quarter courses, non-sequential so far as it was possible to make them, might be the successful answer. On the basis of these assumptions, complete revision of the curricula in all disciplines of the secondary schools in Atlanta was begun.

Changes in goals, objectives, strategies, and techniques were involved. The staff of each discipline was challenged to become "change agents" through the development of relevant performance-based curricula for the secondary schools.

The committee approach was utilized in each subject matter area. Criteria for the selection of committee members included experience, competency in each discipline, interest, and classroom performance. Composition and roles of the committee members changed during the process. Intersystem committees were organized to set up guidelines for subject areas, which would reduce difficulties for pupils who would transfer from one local school system to another. Steering committees researched, organized, and completed general sections, while sub-committees of one to five teachers were responsible for course development, evaluation of materials, interpretation of feedback, and writing the revisions of the completed curriculum guides.

The general approach was to establish goals in each academic discipline and to develop these goals as performance objectives at the course level for each subject. This was accomplished with the aid of consultants from universities, area staffs, subject-area chairmen, and in some instances, pupils, community representatives, and parents. The results were directed toward inservice activities with teachers, who had to be knowledgeable in formulating their day-by-day behavioral objectives.

### Major Steps Taken in Project Implementation

The following major steps were taken in project implementation:

A. Fourteen task forces (one for each of 13 major curriculum areas and one for counseling) were organized and set in motion.



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- B. Under the umbrella of educational goals for the school system, specific objectives were developed for each course in the curriculum.
- C. Instructional resource materials and media were inventoried and catalogued for each course.
- D. Mode-media mixes were devised to determine and to utilize the most effective strategies for accomplishing the specific objectives in each course.
- E. The revised curriculum was field tested and is being modified in accord with the results of its field testing and evaluation.
- F. Inservice education has been provided the entire secondary school staff, to prepare them for successfully utilizing (and helping continuously to improve) the new curriculum.

A grant from the Bureau of Research of the United States Office of Education enabled the local school system to take these steps in curriculum revision. The funds were used to provide essential consultative assistance, to enable teachers to be released temporarily from classroom assignments for inservice education (curriculum development) during the school year, and to provide summer workshops (four weeks during 1968 and eight weeks during 1969) for the curriculum task forces and school administrators, which enabled them to make a careful analysis of the appropriateness and relevancy of each course or educational activity supervised by the schools.

### Consultants Involved in Curriculum Revision

Efforts were made to obtain the counsel of capable consultants in each curricula area, >> facilitate meaningful curriculum revision. Accordingly, many different consultants have been used, including the following:

### A. Art

Dr. Mary Lou Kuhn -- Florida State University Dr. Virginia Macagnoni -- University of Georgia

### B. Business Education

Dr. Russell Mercer -- State Department of Education Dr. Calfrey C. Calhoun -- Professor of Business Education, University of Georgia, Athens, Georgia

### C. Distributive Education

Mr. H. R. Cheshire -- Head of Teacher-Educators, Distributive Education, University of Georgia



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### D. English

Dr. Dwight Burton -- Florida State University Dr. John Simmons -- Florida State University

### E. Foreign Languages

Mr. Frank Grittner (General) -- Foreign Language Supervisor for Wisconsin

Dr. Gertrude Moskowitz (Interaction Analysis) -- Temple University

Dr. Edward Best (Latin) -- University of Georgia

Dr. Robert Elkins (German) -- University of Georgia

Dr. Genelle Morain (French) -- University of Georgia

Mr. Herman Bostick (French) -- Morehouse College

Miss Ruth Keaton (Spanish) -- University of Georgia

Miss King Trousdale -- Georgia Foreign Language Consultant

### F. Health Education

Dr. Richard Means -- Professor of Health Education, Auburn University, Auburn, Alabama

Mrs. Jacquelyn B. Keese -- Georgia Heart Association

Mr. M. Linwood Beck -- Georgia Heart Association

Dr. Harold Whiteman -- Medical Doctor

Mrs. Mary Hayes -- State Department of Health

Mr. Tom Gibson -- Director of Health Education and Training Services, State Department of Public Health

Dr. William H. Mason -- State Health Department

Dr. Clyde Partin -- President Elect, Georgia Association of Health and Physical Education, and Department Chairman, Physical Education, Emory University

Dr. William Dovda -- Filton County Health Department

Dr. Fred Allman -- Orthopedic Surgeon

Mrs. Leroy Woodward -- President, Georgia Parent Teacher Association, and Vice President, Atlanta Board of Education

Mr. Jack Short -- State Consultant, Health and Physical Education

Mr. Melvi Dolob -- Fulton County Health Department

Dr. Elizabeth Adams -- Staff Physician, Health Education, Emory University

Dr. Sanford Matthews -- Medical Advisory Board, Atlanta Public Schools

Dr. Arthur Haisten -- Director, Dental Services, Fulton County Health Department

### G. Home Economics

Dr. Aleene Cross -- University of Georgia Miss Doris Beard -- Sacramento State College



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Mrs. Mary Helen Goodlaw -- Georgia State Department of Health

Miss Betty Jean King -- Georgia Power Company

Miss Gwen Brooks -- Georgia Power Company

Miss Jan Tompkins -- Coats and Clarke Company

Mrs. Judy Newman -- Talon Company

Mrs. Anges Olmstand -- Colonial Stores

Miss Bertha King -- Georgia State Department of Education

### H. Mathematics

Dr. John Downes -- Professor of Mathematics, Emory University, Atlanta, Georgia

Dr. Joe Hooten -- Professor of Mathematics Education, University of Florida, Gainesville, Florida

### I. Music

Mr. Dick Bowles -- Music Department, University of Florida, Gainesvillé, Florida

Mr. Kim Harriman -- Music Department, University of Georgia, Athens, Georgia

Dr. Robert E. Bays -- George Peabody College for Teachers, Nashville, Tennessee

Dr. Samuel Applebaum -- Author, Belwin, Incorporated, Rockville Center, New York

### J. Physical Education

Dr. Robert T. Bowen -- University of Georgia

### K. Science

Dr. Robert Reimold -- Marine Science Laboratory, Sapelo Island, University of Georgia

Dr. Paul Kirby -- Department of Curriculum Instruction University of Texas, Austin, Texas

### L. Social Science

Dr. Lunstrum -- Indiana University and Florida State University

Dr. Johnathon McLendon -- Chairman, Social Science Education, University of Georgia

Dr. Donald Schneider -- University of Georgia

Dr. John Kelly -- University of Georgia

Dr. Howard Mehlinger -- Indiana University

Dr. Theodore Boyden -- Director, Center of Business and Economic Education, Georgia State University

Dr. John Ball -- Georgia State University

Dr. Melvin Drucker -- Georgia State University

Dr. Richard Rank -- Georgia State University



### M. Special Education

- Dr. Mildred W. Barksdale -- Professor, Special Education, Georgia State University, Atlanta, Georgia
- Dr. James Doyle -- Professor, Educational Psychology and Early Childhood Education, Atlanta University, Atlanta, Georgia
- Dr. Aubry Daniels -- Georgia Mental Health Hospital, Atlanta, Georgia
- Dr. Mamie Jo Jones -- Educational Director, Georgia Mental Retardation Center.

These consultants advised local curriculum committees in their curriculum efforts and assisted in planning and in conducting inservice training activities and curriculum revision workshops.

### Local Personnel Involved in Curriculum Revision

All personnel in the Atlanta Public Schools have been involved, either directly or indirectly, in the curriculum development project. Teachers, through their departmental chairmen, set up terminal behavioral objectives, made evaluations of existing programs of study, specified the objectives for each course, and proposed the addition or deletion of specific courses in each subject area. Steering committees composed of approximately 8 to 10 teachers (usually chairmen of the subject-area departments) developed from these recommendations proposed curriculum revisions for presentation to the principals and area superintendents of the school system for approval.

After the curriculum guides had been prepared and approved, teachers throughout the school system field tested the guides, making recommendations for their improvement.

The curriculum revision committees were, generally speaking, composed of teachers, counselors, librarians, area resource teachers, curriculum coordinators, and consultants -- who participated in writing, compiling, editing, refining, completing, and revising the curriculum guides. Table 1 lists the various groups of persons who have been involved in curriculum development.



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### TABLE 1

### PERSONNEL INVOLVEMENT IN CURRICULUM DEVELOPMENT

Determining Objectives and Courses, Implementing the Curriculum Guides, and Evaluating the Curriculum Guides

Writing, Compiling, Editing and/or Revising, Refining, and Completing the Curriculum Guides

### Art

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Art

7 teachers1 counselor1 librarian

3 area resource teachers

1 pupil

2 consultants

### Business Education

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Business Education

15 teachers
Executive director of business
 education
3 consultants

### Counselors

All counselors

### Counselors

5 counselors

1 consultant

### Distributive Education

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Distributive Education

10 teachers
1 counselor
Coordinator of distributive
education

### English

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### English

12 teachers
1 counselor
1 librarian
Coordinator of English
5 area resource teachers of English
2 consultants



### TABLE 1 (Continued)

### Foreign Languages

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Foreign Languages

18 teachers - French
4 teachers - German
7 teachers - Latin
1 teacher - Russian
16 teachers - Spanish
5 teachers - English as a second language
8 consultants

Coordinator of foreign languages

### Health Education

All teachers -- chairmen of departments -- steering committee (approximately 8-12) teachers)

### Health Education

4 teachers
Coordinator of science
Coordinator of girls' physical
education
Coordinator of boys' physical
education
Coordinator of home economics
15 consultants

### Home Economics

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Home Economics

8 teachers
11 consultants
Coordinator of home economics
1 counselor
2 librarians

### Mathematics

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Mathematics

8 teachers
Coordinator of mathematics
1 area resource teacher
1 counselor
1 librarian
3 consultants

### Music

All teachers -- chairmen of departments - steering committee (approximately 8-12 teachers)

### Music

27 teachers 4 consultants 5 resource teachers of music Coordinator of music



### TABLE 1 (Continued)

### Physical Education

All teachers -- chairmen of departments -- steering committee (approximately

8-12 teachers)

### Physical Education

8 teachers

Coordinator of girls' physical

education

Coordinator of boys' physical

education 1 consultant

### Science

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

Social Science

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Science

32 teachers

Coordinator of science 5 area resource teachers

1 consultant 2 counselors 1 librarian

### Social Science

49 teachers

Coordinator of social science

1 counselor 3 librarians 9 consultants

### Special Education

All teachers -- chairmen of departments -- steering committee (approximately 8-12 teachers)

### Special Education

7 teachers 6 consultants

Coordinator of special education.

In summary, membership on the curriculum development committees has included 238 teachers, 13 counselors, 9 librarians, 20 resource teachers, 15 curriculum coordinators, 66 consultants, and 2 other persons. Of course, field testing and revising the curriculum guides have involved great numbers of additional people throughout the school system, particularly classroom teachers in the various subject-area fields.

### Inservice Workshops and Related Activities for Curriculum Development

Realizing that successful implementation of new and innovative curricula would require the understanding and acceptance of every teacher in the Atlanta School System, the decision was made to use workshops and inservice training activities in order to achieve



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teacher understanding and acceptance of the new curriculum. Accordingly, at the workshops teachers and others were invited to make suggestions concerning additions or deletions that would make the curricula materials relevant and valuable to the pupils and society.

Fifty-four system-wide inservice workshops were held to facilitate development and revision of these curricula. An additional 18 school-area workshops also were held during the developmental period. Furthermore, industrial and community resources were utilized in the workshops, and teacher orientation emphasized the techniques for using new community resources in the various instructional areas. Related activities included sessions on each of the following: the preparation of handbooks for pupils, teachers, and counselors; the devalopment of instructional transparencies; the interlocking of academic and vocational education; the evaluation of various types of curricula materials; the use of school clinics for special problems; the development of pupil contracts for instruction in science; and the like.

Table 2 provides a listing of the inservice workshops for curriculum development and related activities.

### Other Considerations

In preparing the curriculum guides and in evaluating special materials, strategies, and equipment, the following steps were taken:

- A. Locally devised forms were used for collecting data needed in curriculum revision.
- B. Other curriculum guides were studied.
- C. New curricula trends were assessed.
- D. An effort was made to discover relationships between national trends and local needs.
- E. Books, films, slides, and other materials were reviewed and evaluated.
- F. Various community resources were listed and evaluated for their usefulness in the new curriculum guides.

In devising and in revising the curriculum guides, the opinions of pupils, teachers, consultants, and others were sought. This was done through interviews, teacher meetings, workshops, departmental meetings, and locally devised questionnaires. Group processes were used in reviewing each curriculum guide, to assess the degree to which the materials and strategies suggested were useful in achieving the stated objectives. Furthermore, suggestions for improvements were always welcome, so that the curriculum guides might continuously be improved.



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### TABLE 2

INSERVI	INSERVICE WORKSHOPS AND RELATED ACTIVITIES FOR CURRICULUM DEVELCIMENT	RRICULUM DEVELCATENT
Discipline Area	Inservice Workshops	Related Activities
Art	System—wide workshop Area Workshops in areas I, II, and IV New teacher orientation	Evaluative sessions held.
Lusiness Education	System-wide workshop	Had teachers submit outlines in their specialty.
Ccordinated Vocational and Academic Education	System-wide workshop New teacher orientation	Correlating with academic teachers for interlocking of disciplines.
Distributive Education	System-wide workshops (1969 and 1970) New teacher orientation	Development of transparencies (45 sets) Pupil handbooks prepared.
English	System-wide workshop	Pupil evaluative committees (2) established.
Foreign Languages	Individualization of Instruction (2) 10 days each Interaction inalysis (3 days) Use or electroric aids New teacher orientation	Planning for intervisitations.
Guldance	System-wide workshop	Preparation o $^{arepsilon}$ counselor handbooks



# TABLE 2 (Continued)

Health Education	System-wide workshop Forty-hour workshop (1970)	Attendance at local, state, regional, and national conferences on health education.
Home Economics	System-wide resource workshop (3 weeks) Inservice workshop on teaching techniques (40 hours)	Coordinated course titles and descriptions with those of other school systems.  Developed a resource book of teaching materials.
Mathematics	Twent 7-six inservice workshops for teachers in five areas of mathematics Curriculum revision workshops in 1967-68 (16 days); in 1968 (4 weeks); and in 1969 (4 weeks)	Teacher evaluations of curriculum guides.
Music	System-wide workshops (4) Area workshops in areas I, II, III, IV, and V	Teacher handbooks developed in instrumental music Teacher handbooks developed in choral music.
Physical Education	System-wide workshops (4) 132 hours each Area workshops in areas I, II, III, IV, and V	School clin.cs held at every school in the system.
Social Science	Inservice curriculum analysis and behavioral objectives (50 hours) Workshops for teachers (3)	Five one-day consultative sessions for representatives from each as school.
Special Education	System-wide workshops (5)	Planned city-wide workshop for teachers, crunselors, and work supervisors during 1971.



### IV. RESULTS OBTAINED

### General Improvements

The evaluation and reorganization of curricular offerings, which were initiated as a part of this project, resulted in recommendations for the development of 506 courses in 12 subject areas. Curriculum guides for 357 of these courses have been completed. Several of the courses yet to be added are being field tested in pilot schools at the present time.

An attempt has been made to redesign all curriculum guides around performance objectives, leading to more independent work and more individualized instruction for pupils of all abilities. The restructuring of offerings has also made possible more satisfactory grouping in relation to the interests and meds of the various pupils.

In all subject areas the offerings are now broader and more flexible, as the main thrust has been on eliminating required sequences, wherever possible. Another valuable result is the use of more descriptive course titles, which indicate the increased relevance of content. There also has been  $\varepsilon$  concentration of learning experiences to give greater depth of instruction in specific areas.

As a result of the implementation of the four-quarter curriculum, there are now many more opportunities for pupil options, for individualized instruction, and for independent study. Simulation, role playing, and dramatization are used extensively throughout the new courses; and much greater use than previously is being made of media of all kinds. There is more provision for teaching teams to operate on both a formal and an informal basis; and teamers are encouraged to be innovative, to try new ideas, and to make suggestions for changes in the curriculum. It is hoped that continuous evaluations and changes in course offerings have been established as an on-going process in all subject are s.

The attempt to make the curriculum relevant to pupils is seen in the increased emphasis on pupil involvement, in the use of the immediate environment and the personal interests of pupils as bases of reference, and in the utilization of current pertinent instructional materials.

Although no substantiating statistical information is available, observations indicate that more pupils new are selecting courses in the basic subjects, such as mathematics and English, and that there now are fewer failures in such courses. In othe areas, such as special education, imported attendance and increased involvement of parents are further indications of relevance.



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### Specific Improvements

Among the specific improvements, the following are noted:

- A. The new English curriculum emphasizes a thematic approach to literature, the study of language in all aspects instead of grammar for its own sake, and a concentration on oral language as a basis for the skills of reading and writing.
- B. Science has moved away from lecture-demonstration with individual pupil laboratory work to an emphasis on individual and small group experimentation.
- C. Social science courses have been dev loped around the cluster concept, utilizing the new social studies project materials. The main thrust has been in the elimination of basic texts and in the use of more simulation and multi-media combinations.
- D. The mathematics offerings have been expanded to include enrichment courses and advanced-placement courses, while the Basic Mathematics and Laboratory Mathematics programs have been made more flexible.
- E. The music curriculum now places more emphasis on general-type courses than on performance skills. In art the emphasis has been on a continuum with regard to consumer choices and cultural influences. Another point of emphasis in the fine arts is utilization of advances in technology and industry toward aesthetic ends.
- F. Special education and distributive education now have written course guides for the first time.
- G. The home economics curriculum gives more visibility to concepts of management and consumer education with increased emphasis on human development. Guides for occupational education based on home economics knowledge and skills have been developed concurrently, but not as a part of this grant.
- H. In business education more emphasis has been given to employment readiness other than skill development.
- The physical education program has been expanded to include more varied activities with a focus on lifetime sports.
- J. Health has been separated from physical education, and the content now is based on the current concerns of yout.
- K. More complete bibliographies and lists of resources have been made available as a part of the curriculum guides in all subject areas. Specific supplementary materials have been developed in some areas.



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- L. In the foreign language program, tapes which accompany basic texts were broken down into more usable time blocks and were made available in cassette form. Packets of motivational materials also were developed.
- M. A set of 45 transparencies, as well as a separate bibliography of resource materials, was developed for each teacher of distributive education. Furthermore, new handbooks were developed for teachers of music, health, and physical education.
- N. A resource book -- including questionnaires, case studies, and other evaluative and instructional devices -- was developed to correlate with the home economics guide; and packets of materials listing a variety of pupil activities were provided for English classes.
- O. Supplementary materials for specific courses, such as Laboratory Mathematics and Mass Media, also were developed.

### Additional Needs

Redesigned space and more teaching machines and other electronic devices are needed to implement fully the new curriculum. There is need for more projectors — opaque, overhead, film, and filmstrip — and for more tape recorders, video tape recorders, and record players. The emphasis placed on relevance and on "here and now" necessitates the use of materials from current publications and of paperbacks or vinyl books too new to be on the Georgia State Textbook List.

As instruction becomes more individualized, there will be a need for more programmed printed materials, and specific courses will need additional equipment. Mathematics will need more calculators, programmers, and computer terminals. Art will need more photographic laboratories. All areas will need cameras and recorders, to encourage teachers and pupils to create or produce their own materials.

The understanding of each curriculum guide and its use as planned seems to have been in direct proportion to the kind and degree of the individual teacher's involvement in its planning, writing, and editing. In almost all areas, curriculum coordinators have indicated that teachers should be provided with additional assistance in using the new curriculum guides effectively.

### Copies of Curriculum Guides Produced

Three sets of the curriclum guides produced by this project are enclosed in three separate boxes which accompany this Final Report as Appendix 2. These curriculum guides, many of which have been revised following field testing, serve as concrete evidence of the trenendous amount of work accomplished by the curriculum committees as they endeavored to revitalize and individualize the curriculum, while



organizing it into a twelve-month, four-quarter program of studies. Further, the momentum of this project continues, since the new curriculum guides are being further revised; and new courses and guides are currently being added.

### Opinion Survey Relating to Twelve-Month, Four-Quarter Schools

In May and June of 1969, after the schools had operated three quarters under the new organizational plan, the Supplementary Educational Center of the Metropolitan Atlanta Region conducted an opinion survey relating to twelve-month, four-quarter schools. Questionnaires were administered to pupils, parents, teachers, and others, to obtain the reactions of these persons concerning (1) reasons for the change to twelve-month, four-quarter schools, (2) possible advantages of the new plan, and (3) possible disadvantages of the new plan.

Six hundred and six pupils completed and returned the questionnaires, which represented about one-half of all the questionnaires distributed to the pupils. The respondents were eleventh and twelfth grade pupils, 49 per cent being juniors and 53 per cent being girls.

The pupils gave the following reasons for the change to the new curriculum:

Day Cont of

·	Per Cent of
Pupils' Reasons	Pupils Giving
For the Change	Each Reason
Better selection of courses	. 75
Graduate sooner	
A complete school program in the summer	. 68
Program smited to each	. 63
Encourage to stay in school	. 58
Reach individual interests	. 55
Update school studies	. 52
Better use of tuildings	
Limit student failure to one quarter	43
Fewer students in school at one time	. 43
Graduate and enter college any quarter	. 39

According to the pupils, the advantages of the new curriculum are as follows:



Advantages Given	Pupils Giving
by the Pupils	Each Advantage
Complete requirements and graduate earlier	84
Better chance to make up failures	
Greater choice of courses	77
Course failure only one quarter	
More chances for enrichment	
Better suited program to individual needs	
Teachers can be assigned by special competencies .	71
Chance of part-time employment improved	
New courses	68
Better suited to individual interests	65
	4.5
Alternative for summer	63
Better opportunity to take remedial work	
Graduate at any quarter	62
Maintain interest better in quarters	58
According to the pupils, the disadvantages of tare as follows:	he new curriculum
	D-4 0-4 46
Diandriantana Civan	Per Cent of
Disadvantages Given	Pupils Giving Each Disadvantage
by the rupils	Each Disadventage
Too little pupil understanding of the new plan Too many registrations	
Eight hundred and eighty-three parents returned	:cmplated
ques: ionnaires, constituting approximately 40 per	
quest lonnaires distributed to the parents. Parents	
requested to indicate (1) reasons for changing to t	welve-month
four-quarter schools, (2) Advantages of the new pla	n and (3)
disadvantages of the new plan.	m, and (5)
arountages of the new praint	
According to the parents, the reasons for chang curriculum were as follows:	ing to the new
	Per Cent of
Parents' Reasons	Parents Giving
for the Change	Each Reason
TOT THE GRANGE	Lacii Reason
Give students better selection of courses	60
Allow students to graduate sooner	55
Encourage graduation before quitting	54
Make better use of buildings	51
Have complete program in summer	49

Per Cent of



Parents' Reasons for the Change		Parents Civing Each Reason
Provide a program suited to each Update school studies Reach individual interests		44
According to the parents, the advanta quarter schools are as follows:	ges of twelve	e-month, four-
Advantages Given by the Parents		Per Cent of Parents Giving Each Advantage
Better chance to take subjects failed . Chance to graduate earlier More opportunity for advanced courses . Better use of buildings		58 57 49
More students can get work experience . More individual attention for students . Development of new courses and materials More courses offered (depth, breadth) .	<i></i>	38 37
According to the parents, the disadvanew curriculum are as follows:	ntages for cl	nanging to the
Disadvantages Given by the Parents	<u>1</u>	Per Cent of Parents Giving Each Disadvantage
Lack of community understanding Student attitudes toward plan Lack of student understanding Possible need for more financial support		40 40
A large number of teachers returned the indicating (1) possible reasons for adopt quarter schools, (2) advantages of the new disadvantages of the new curriculum.	ing twelve-mo	onth, four-

Per Cent of



	ger Cent of
Teachers' Reasons	Teachers Giving
for the Change	Each Reason
Tor the diange	
Better structured for individual students	77
Better able to meet student interests	• • • •
Wider selection of courses	
	• • • •
Full school program in summer	
Earlier graduation	57
Reduce number of dropouts	54
Provide students with meaningful activities	_
Facilitate curriculum revision	• • .
Full use of school buildings	
Utilize special abilities	50
Provide year-round employment	19
Allow part-time employment	
Allow a savings in money	
Pet project of the administration	•
ret project of the administration	• • 12
According to the teachers, the advantages of the are as follows:	new curriculum
	Per Cent of
Advantages Given	Teachers Giving
by the Teachers	Each Advantage
by the reachers	Ducit Havaireage
Building utilized to greater extent	89
Building utilized to greater extent	
Earlier graduation possible	85
Earlier graduation possible	85 85
Earlier graduation possible	85 85 81
Earlier graduation possible	85 85 81
Earlier graduation possible	85 85 81 78
Earlier graduation possible	85 85 81 78
Earlier graduation possible	85 85 81 78
Earlier graduation possible	85 85 81 78 74 73 73
Earlier graduation possible	

According to the teachers, the disadvantages of the new curriculum are as follows:



Disadvantages Given by the Teachers	Tea	er Cent of chers Giving Disadvantage
More registration procedures		76
Lack of community understanding		
Additional texts required		61
Increase in student records		
Increased number of teacher preparations		49

The results of this survey clearly indicate that in the opinion of pupils, parents, and teachers the advantages of twelve-month, four-quarter schools and the new curriculum unmistakably are greater than the disadvantages. The results of this survey also indicate that strong support exists among pupils, parents, and teachers for the new program. Primarily, people support the new four-quarter plan on the basis of curriculum concern, increased flexibility, improved courses for pupils, and maximum benefits from school personnel and buildings.

This survey serves as a prelude to a more comprehensive study of twelve-month, four-quarter schools, which is currently being conducted by the Supplementary Educational Center of the Metropolitan Atlanta Region.

### V. CONCLUSIONS REACHED

According to the opinion survey conducted by the Supplementary Educational Center of the Metropolitan Atlanta Region, it is clear that pupils, parents, and teachers support twelve-month, four-quarter schools and consider the advantages to be greater than the disadvantages.

Furthermore, an examination of reports from all areas indicates that, as an outgrowth of work which has gone into twelve-month, four-quarter curriculum development, many goals have been achieved, and great progress has been made toward others. High school teaching staffs, who have been involved on school time in all facets of evolving a new curriculum, have become more united in the common goal of curriculum change and in efforts to improve instruction. The belief that curriculum making is a continuous process involving each tracher has developed and deepened.

Many teachers have moved from single-text-oriented instruction toward grouping, utilization of multiple media, and expanding class-rooms into active participation in the community.

Emphasis on the u.e of performance objectives has helped many teachers and pupils to pinpoint more sharply what they are attempting to do and has improved communication about purposes, goals, and evaluative procedures.



In all areas the curriculum has become much more flexible and more relevant to the pupils' interests, needs, and abilities. More in-depth teaching in specific interest areas is occurring, and more schools are offering independent study opportunities for pupils.

Had it not been necessary for Atlanta to transfer large numbers of teachers because of a Federal court order in March, 1970, just as staffs were achieving a feeling of success and stability in the changes which they had effected, a more valid evaluation would be possible of the changed attitudes, increased skills, increments in interest and participation, and additional learning on the part of the pupils.

The high turnover of personnel which resulted from this court order has pointed out the need for a more effective system for introducing new teachers to the Atlanta philosophy and curriculum, for constant, on-going involvement of new teachers, and for re-cycling teachers who have not yet met the criteria for implementing the four-quarter curriculum.

The progress which has been made has also helped to point up the need for the development of more effective ways to make available to individual pupils information about resources which are available to them for achieving objectives — such as contract—based, multi-media learning activity packets, which provide for flexibility in the choice of objectives and media for achieving the objectives.

Finally, the principal benefits from this project are as follows:

- A. A revised, updated, more flexible, and more relevant curriculum in the disciplines in which the school system concentrates.
- B. A cadre of trained teachers and administrators experienced in the application of behavioral objectives and technology to teaching problems.
- C. An in-school climate receptive to further curriculum change and improvement, which means that the impact of this project will continue into future years.

### VI. RECOMMENDATIONS

In order that gains from the twelve-month, four-quarter curriculum revision may be maintained and that progress may continue, attention to a variety of factors seems to be indicated as follows:

- A. Professional development activities.
  - Preservice training for all high school teachers new to the system or new to the subject Arra.



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- Required inservice training for all teachers during the salaried day.
  - a. To implement curriculum already developed.
  - b. To continue to involve teachers in the revision and further development of the curriculum.
- Required quarterly sessions during the salaried day for all high school departmental chairmen, to be accompanied by increased enabling provisions for and responsibility for curriculum implementation in their schools.
- 4. Involvement of all principals, to receive from them and to help them develop an understanding of and positive attitudes toward the new curriculum, since their support is crucial to its effective implementation.
- B. Instructional guides and materials.

The process of revision and development of guides needs to be continued; and much greater provision is needed for learning activity packets, programmed materials, and other ways to make continuous progress possible.

C. Instructional personnel.

Provision is needed to utilize the specialized knowledge of curriculum area specialists for the effective employment and placement of teachers.

D. Fostering innovations.

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Encouragement of improvements and innovative practices is needed through providing funds (and a framework) for evaluating and making decisions about "mini-projects" submitted by the teachers.

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### VII. DISSEMINATION ACTIVITIES

The Atlanta experience concerning curriculum revision for twelvementh, four-quarter schools has been freely shared within and outside the local school system. The new curriculum guides have been widely distributed. Numerous news stories and articles have appeared in the local news media and in national publications. Information and materials have been mailed in response to letters of inquiry. Orientation and curricular materials have been provided visitors to the school system. Locally sponsored seminars on twelve-month, four-quarter schools (seven since January of 1970) have answered the questions of many. Furthermore, Atlanta has participated in nation-1 seminars on year-round schools and will be represented on the program of the Third National Seminar on Year-Round Education in March of 1971.

### Curriculum Guides

In addition to sharing the new curriculum guides with various visitors to Atlanta, these guides have been distributed to the following:

- A. Classroom teachers.
- B. Principals.
- C. School counselors.
- D. Schedule committees.
- E. Library of each high school.
- F. Curriculum coordinators.
- G. Curriculum directors.
- H. Assistant superintendents.
- I. Area superintendents.
- J. The Superintendent.
- K. Special program directors.
- L. Board of Education members.
- M. Professional Library.
- N. State Curriculum Department.
- O. Project consultants.
- P. Cooperating school systems in the Metropolitan Atlanta Area.



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### News Stories and Articles

Numerous news stories articles, and editorials have appeared in the local newspapers and other news media.

Additional articles, describing the Atlanta program of twelve-month, four-quarter schools, have appeared in the following national publications:

"Atlanta Schoolman Discusses His Year-Round School Program," Dr. Arthur H. Rice, *Nation's Schools*, Volume 86, Number 6, December, 1970, page 12.

"Year-Round School -- Report on the Latest Test," U. S. News and World Report, August 18, 1969, pages 32-34.

"Should We Have Year-Round Schools?" Gerald M. Knox, Editor, Better Homes and Gardens, June, 1970, pages 60-100.

"Atlanta Initiates Work on Student-Griented Secondary Curriculum," Dr. John Letson, Superintendent, and Dr. James O. Knuckles, Educational Systems for the '70's News, June, 1968, page 6.

### Visitors and Letters of Inquiry

Visitors have come to Atlanta from 25 different states and from two foreign countries to learn about the Atlanta program of year-round schools as follows: New Jersey, Florida, Massachusetts, Alabama, Pennsylvania, Louisiana, Indiana, Oklahoma, Minnesota, Ohio, Illinois, Virginia, Texas, Tennessee, Kentucky, Iowa, Connecticut, Kansas, Michigan, New York, Maryland, North Carolina, Delaware, Nebraska, Georgia, Canada, and The West Indies. Furthermore, since January, 1970, materials and information have been sent to 49 different persons by mail in response to their specific letters of inquiry.

### Seminars on Twelve-Month, Four-Quarter Schools

The requests for information about twelve-month, four-quarter schools had been so numerous that the decision was made to hold periodic seminars, which would provide interested persons from outside the local school system with information and answers to their questions about the Atlanta program. Accordingly, since January of 1970 the following seminars have been held to disseminate this information:

<u>Date</u> 1970								 . Visitors ttending
January 19-20 March 16-17 .								68 62



<u>Date</u> 1970	No. Visitors Attending
April 20-21	. 58 . 26
1971	. 23
January 18-19	
Total Attending Seminars	. 326

### Third National Seminar on Year-Round Education

A further sharing of information about the Atlanta program of year-round schools will take place at the Third National Seminar on Year-Round Education, to be held March 24-26, 1971, at Cocoa Beach, Florida. At this seminar Dr. Jarvis Barnes, Assistant Superintendent for Research and Development, Atlanta (Georgia) Public Schools, will participate in a panel, making a presentation entitled "Some Internal Problems Associated With a Year-Round Program." Dr. Barnes also will be available to answer questions about the Atlanta program.



### VIII. APPENDIX

### Appendix 1 -- References on Year-Round Schools

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### Appendix 2 -- Curriculum Guides

Three different sets of the curriculum guides which have been produced by this project are being shipped with this report, each set of the guides being packaged in a separate box labled "Appendix 2, Final Report on Curriculum Revision Based on Behavioral Objectives for Twelve-Month, Four-Quarter Schools, Atlanta Public Schools, Atlanta, Georgia."

Each separate box will, therefore, contain one copy each of the following curriculum guides:

### A. Art

Art Curriculum Guide

### B. Business Education

Business Education, Book I Business Education, Book II Business Education, Book III

C. Cooperative Vocational and Academic Education
Cooperative Vocational and Academic Education

### D. Distributive Education

Distributive Education, 1969, Book I Distributive Education, 1969, Book II Distributive Education, 1969, Book III Distributive Education, 1969, Book IV

### E. English

English, 1968 English

### F. Foreign Languages

French Guide, 1968 Latin Guide Spanish Guide, 1968



### G. Guidance and Counseling

Counselors' Handbook
Cues for Curriculum -- The Counselor's Role

### H. Health

Health Education, 1968 Health Education

### I. Home Economics

Home Economics Occupational Education in Child Development Home Economics Resource Book

### J. Industrial Arts

Industrial Technology, 1968

### K. Mathematics

High School Mathematics Curriculum Guide, 1968 High School Mathematics Curriculum Guide, 1969 Laboratory Mathematics

### L. Music

Choral Teachers' Handbook and Guides for Choral Courses Guide for Non-Performance Music Courses Instrumental Teachers' Handbook and Guides for Instrumental Courses Music, 1968

### M. Physical Education

Physical Education, 1968

### N. Social Science

Social Science, Book I, 1968 Social Science

### O. Special Education

Secondary Special Education Curriculum Guide

### P. Science

Science, 1968 Science, Book II.

