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ABSTRACT

An overview and summary are presented of the implementation of the Connecticut Mastery Test for grade 4. The testing program assesses essential skills in mathematics and language arts including listening, reading, and writing for students in grades 4, 6, and 8. The criterion-referenced mastery test assesses how well each student is performing on skills identified by content experts and practicing educators as important for students entering the fourth grade. In 1991, fourth graders mastered an average 21.2 of the 25 mathematics objectives tested, representing no change from the preceding year. A total of 88.4 percent of the students scored at or above the remedial standard, slightly up from the preceding year. In language arts, there was no change from the preceding year, as fourth graders mastered an average of 6.3 of the 9 objectives tested. In writing, fourth graders averaged 4.9 on a scale of 2 to 8, slightly down from 1990, although the number scoring above the remedial standard increased somewhat. In reading, fourth graders averaged 49 units on the Degrees of Reading Power, up slightly from 1990. About 53 percent scored at or above the reading goal, an increase from 1990. Comparative information for 1985 through 1991 is given. Twelve charts present test results, and 12 appendixes provide supplemental information about testing and scoring. (SLD)



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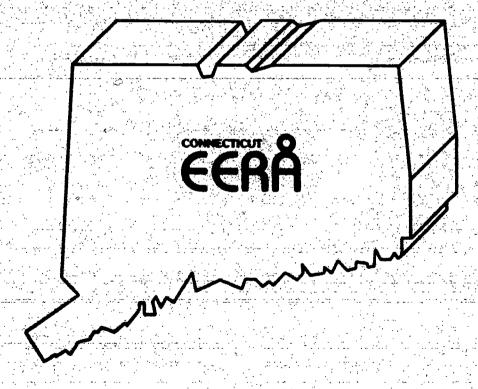
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SUMMARY AND INTERPRETATIONS 1991–92



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Connecticut Education Evaluation and Remedial Assistance

GRADE 4 MASTERY TEST RESULTS

SUMMARY AND INTERPRETATIONS: 1991-92

CONNECTICUT STATE DEPARTMENT OF EDUCATION



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LEGISLATIVE BACKGROUND

In June 1984, the General Assembly of the State of Connecticut amended Section 10-14 m-r of the Connecticut General Statutes, an act concerning Education Evaluation and Remedial Assistance (EERA). This law provides that:

- O By May 1, 1985, each local or regional board of education shall have developed and submitted for State Board of Education approval, a new plan of educational evaluation and remedial assistance. Each plan had to address the following:
 - o the use of student assessment results for instructional improvement;
 - o the identification of individual students in need of remedial assistance in language arts/reading and mathematics;
 - o the provision of remedial assistance to students with identified needs; and
 - o the evaluation of the effectiveness of the instructional programs in language arts/reading and mathematics.
- The State Board of Education shall administer an annual statewide mastery test in language arts/reading and mathematics to all fourth-, sixth- and eighth-grade students, with the following exceptions:
 - O Special Education students who are excluded by a Planning and Placement Team (PPT) decision;
 - o students who have been enrolled in an "English as a Second Language" program for two years or less; or
 - o students enrolled in a Bilingual Program (as defined in Section 10-17e of the Connecticut General Statutes) for two years or less.
- o Each student who scores below the statewide remedial standard on one or more parts of the eighth-grade mastery examination shall be retested. These students shall be retested annually, using the eighth-grade mastery test, only in the deficient area(s) until such students score at or above the statewide remedial standard(s).
- o Biennially, each local or regional board of education shall submit to the State Board of Education a report which includes indicators of student achievement and instructional improvement.
- On a regularly scheduled basis, the State Board of Education shall complete field assessments of the implementation of local EERA plans.



On an annual basis, test results and low income data shall be used to determine the distribution of available state funds to support remedial assistance programs.

The purpose of this report is to provide an overview and summary of the implementation of the fourth-grade Connecticut Mastery Test. The mastery test assesses how well each student is performing on those skills identified by content experts and practicing educators as important for students entering fourth grade to have mastered.

The Connecticut Mastery Test is a critical element in Connecticut's agenda to attain educational equity and excellence. The testing program assesses essential skills in mathematics and language arts, including listening, reading and writing, for grades four, six and eight students. Student achievement is measured and reported in relation to specific learning objectives that students reasonably can be expected to have mastered by the end of grades three, five and seven.

The Connecticut Mastery Test provides valuable educational information which can be used to improve instruction and elevate the achievement of Connecticut's students. The test results are reported in a manner that identifies how well each student is succeeding in relation to clearly defined and meaningful standards. It is our hope that educators throughout the state use the results as a tool to gain better understanding of the learning occurring in our classrooms and the ways to increase learning in the future.

Connecticut is committed to an annual cycle of assessment in order to promote:

- o the monitoring of individual student achievement;
- o the evaluation of instructional program effectiveness;
- o educational goal setting; and
- o remedial assistance program improvement.

An examination of the results since 1985 reveals many signs of steady, incremental improvement. The general improvement since the start of the program is quite impressive in some areas. Yet the many Connecticut educators who helped to build the program had the foresight to include some very demanding content and standards. Student performance in relation to these expectations reveals that much remains to be done.

As you examine these results, it is our hope that the many stories they tell will prove useful and informative. Department staff are available to facilitate the interpretations and application of these test scores.

Peter Behuniak Acting Chief

Bureau of Evaluation and Student Assessment



OVERVIEW OF THE MASTERY TESTING PROGRAM

In the spring of 1984, the Connecticut General Assembly amended the Education Evaluation and Remedial Assistance (EERA) legislation to authorize the creation of mastery tests in the basic skill areas of mathematics and language arts, including listening, reading and writing skills. The tests were to be established for grades four, six and eight.

The goals of the mastery testing program are:

- earlier identification of students needing remedial education;
- o testing a more comprehensive range of academic skills;
- o setting high expectations and standards for student achievement;
- o more useful test achievement information about students, schools and districts:
- o improved assessment of suitable equal educational opportunities; and
- o continual monitoring of students in grades four, six and eight.

The type of test that best addresses these goals is a criterion-referenced test. Criterion-referenced tests are designed to assess the specific skill levels of students. Such tests usually cover relatively small units of content. Their scores have meaning in terms of what each student knows or can do. Test results are used to identify the areas of strengths and weaknesses of each student.

MASTERY TEST CONTENT

The CMT is designed to assess essential language arts/reading, writing and mathematics skills that can reasonably be expected to be mastered by most students by the end of the third, fifth and seventh grades. The specific skills to be tested within these content areas were identified by committees of educators from throughout the state. In addition, surveys were sent to many teachers, administrators and parents to determine the appropriateness of these skills for the Mastery Test. A complete description of the procedures used in the development of the fourth-grade CMT can be found in Appendix A (p. 31).

Mathematics

The Mathematics Advisory Committee recommended a grade four mathematics test that assessed twenty-five (25) specific objectives in four domains: (1) Conceptual Understanding; (2) Computational Skills; (3) Problem Solving/Applications; and (4) Measurement/Geometry. There are four test items per objective for a total of 100 items on the mathematics test. A detailed list of domains and objectives is given in Appendix B (p. 35).

Language Arts

The Language Arts Advisory Committee recommended a 103-item grade four language arts test that covers two domains: Reading/Listening and Writing/Locating Information. Nine (9) objectives were recommended by the Language Arts Advisory Committee.



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The general content of Reading/Listening consisted of narrative, expository and persuasive passages on a variety of topics measuring a student's ability in: (1) Literal Comprehension; (2) Inferential Comprehension; and (3) Evaluative Comprehension. Audiotapes were used to assess students' listening comprehension ability in: (1) Literal Comprehension and (2) Inferential and Evaluative Comprehension. The Degrees of Reading Power (DRP) test was also used to assess reading. The DRP test included eight (8) passages and fifty-six (56) test items. It was designed to measure a student's ability to understand nonfiction English prose at different levels of reading difficulty.

The general content area of Writing/Locating Information consisted of three components. First, there was a writing sample for direct, holistic assessment of student writing. Each student was asked to write a composition on a designated topic. Writing was then judged on a student's demonstrated ability to convey information in a coherent and organized fashion. Second, the mechanics of good writing, which was defined as (1) Capitalization and Punctuation, (2) Spelling, Yomonyms and Abbreviations and (3) Agreement, was assessed in a multiple-choice format. Third, Locating Information (Schedules, Maps, Index and Reference Use and Dictionary Meaning), measured students' ability to find and use information from the sources listed. A detailed list with objectives and number of items per objective is given in Appendix C (p. 37).

FUTURE DEVELOPMENT

The Connecticut State Department of Education (CSDE), in conjunction with content consultants and various CMT advisory committees, has begun the development of the second generation of the CMT. The current CMT is under review to determine which skills are appropriate for inclusion on the new test. In addition, new content areas and other forms of assessment techniques (e.g., performance assessment and short-answer questions) are being considered. It is anticipated that the second generation CMT will be administered for the first time statewide in the fall of 1993. Items for this set of exams were piloted in the fall of 1991 and will be followed by a second pilot in the fall of 1992.

SETTING MASTERY STANDARDS BY OBJECTIVE

The essence of the Connecticut Mastery Test (CMT) is the establishment of a specific mastery standard against which each student's knowledge and competency on each objective can be compared. The mastery test incorporates appropriate and challenging expectations for Connecticut public school students. The goal of the CMT Program is for each student to achieve mastery of all objectives. The objectives being tested were identified as appropriate and reasonable for students at each of the grades tested. These tests are designed to measure a student's performance on these specific objectives.

The process of establishing the mastery standards by objective used a statistical method that required two decisions to be utilized. The first decision defined a student who mastered a particular skill as one who had a 95% chance of correctly answering each item within the objective. The second decision was that the specific standard for each objective would identify 99%



-2-

of the students who mastered the skill. By applying the two decision rules stated above to a binomial distribution table, mastery standards were established for the 25 mathematics objectives and the 9 language arts objectives.

The mastery standards are as follows:

- o In mathematics, for each of the 25 objectives, a student must answer correctly at least 3 out of 4 items.
- o In language arts, for the 9 multiple-choice objectives with varying numbers of items, a student must answer correctly the following numbers of items:

| | # Items Correct for Mastery |
|---|--|
| WRITING MECHANICS | |
| (1) Capitalization & Punctuation(2) Spelling(3) Agreement | 9 out of 12 7 out of 9 11 out of 15 |
| LOCATING INFORMATION | |
| (4) Schedules, Maps, Table of Contents, Title Page and Dictionary | 8 out of 11 |
| LISTENING COMPREHENSION | |
| (5) Literal(6) Inferential and Evaluative | 5 out of 7 9 out of 13 |
| READING COMPREHENSION | |
| (7) Literal(8) Inferential(9) Evaluative | 9 out of 12 10 out of 14 7 out of 10 |

No mastery standards were set for the two holistic language arts measures, neither the Degrees of Reading Power (DRP) test nor the Writing Sample, since these measures are not composed of objectives on which mastery could be assessed.

SETTING REMEDIAL (GRANT) STANDARDS

In addition to mastery standards, Section 10-14 m-r of the Connecticut General Statutes requires that the Connecticut State Board of Education establish statewide standards for remedial assistance in order to meet two responsibilities:

o to identify and monitor the progress of students in need of remedial assistance in language arts/reading and mathematics as part of the EERA field assessments; and



o to distribute EERA funds based on the number of needy students statewide, as well as for use in the Chapter 2 and Priority School District Grants.

Students who score below the remedial standard(s) are eligible for services provided for in EERA legislation. Remedial standards were established by the State Board of Education acting on the recommendations of committees that represented Connecticut citizens and educators. The standard-setting committees recommended the following remedial standards:

- 1. In mathematics, a student who answers fewer than 69 of the 100 items (69%) correctly is required to receive further diagnosis by the local school district and, if necessary, to be provided with remedial assistance.
- 2. In reading, a student whose Degrees of Reading Power (DRP) unit score is lower than 41 is required to receive further diagnosis and, if necessary, to be provided with remedial assistance.
- 3. In writing, a student receiving a total holistic score less than 4 is required to receive further diagnosis by the local school district and, if necessary, to be provided with remedial assistance.

The mastery and remedial standards were established by the State Board of Education on June 23, 1985. For a detailed explanation of the remedial standard-setting process, see Appendix D (p. 39).

STATEWIDE ACHIEVEMENT GOALS

In addition to mastery and remedial standards, statewide achievement goals have been established in the content areas of mathematics, reading (DRP) and writing. These goals represent high expectations and high levels of achievement for Connecticut public school students.

The achievement goals are as follows:

- o In mathematics, all students must master 22 of 25 objectives tested.
- o In reading, a student must score a Degree of Reading Power (DRP) unit score of 50 with 70% comprehension.
- o In writing, a student must score a total holistic score of 7 on a scale of 2 to 8.

STUDENT GROWTH OVER TIME

The Connecticut Mastery Test (CMT) Program is designed to provide criterion-referenced information about the level of student mastery of objectives in grades four, six and eight. However, the basic scores reported for the mastery tests do not provide a system for evaluating achievement growth from grade four to grade six to grade eight. This is so because mastery decisions are based on student performance (mastery/non-mastery) on



objectives that are unique to grade level. Mastery of objectives cannot be compared directly across grade levels and tests because of the differences in the number of objectives, curriculum content and levels of difficulty. In order to make valid interpretations across grade levels, the mastery test performance must first be linked using a procedure called vertical equating.

Purpose of Vertical Equating

Vertical equating is a psychometric technique for comparing tests at all ability levels. This is accomplished by putting them on a new scale which is common to the tests. Vertical equating is based on two assumptions. The first is that learning is continuous. The second is that instruction in each area is related to increased achievement in that area. These assumptions enable test developers to create a score scale that covers a wide range of content over several grades. The development of these "growth scales" is a common practice and has been used successfully in the development of a variety of achievement test batteries. The purpose of vertical equating is to provide one scale score system which can be used to compare performance across multiple grade levels. This score system enables test users to interpret test score information over time without altering the basic nature of the testing program. This achievement growth can be monitored over time on the basis of student performance on the CMT across grades.

Development of Vertical Scales

In order to develop a vertical scale, performance on the grade four, grade six and grade eight mastery tests was statistically linked. This was accomplished during the 1987 administration of the CMT using representative statewide samples of approximately 5,000 sixth-grade students and approximately 7,000 eighth-grade students. Each group of students at grade six and grade eight was administered the appropriate on-grade level test form of the CMT along with one below-grade level section of the CMT. Specifically, each group of eighth-grade students took the grade eight test as usual and a part of the grade six test. Likewise, each sixth-grade group took the grade six test as usual along with a section of the grade four test. Each sample of students took only one below-level section of the CMT involving approximately one hour of additional testing time. Performance on the below-level items was not counted toward the CMT scores of individual students. For each of these linking samples, item difficulty estimates were obtained for the on-grade and below-grade level items by analyzing all items together as one test. Once items from the on-grade and below-grade level tests were linked, item difficulties from each level of the CMT were adjusted to a common metric to produce the vertical scale.

Vertical scales were established in the content areas of mathematics and the reading comprehension section of the language arts test. For each grade and content area, every correct score corresponds to a specific value on a common score scale (vertical scale). Each of the vertical scales was constructed so that each scale score point represents the same theoretical achievement level whether derived from a score on the grade four test, a score on the grade six



test or a score on the grade eight test. This allows valid interpretations of growth across time using tests differing in content, length and item difficulty. All items on the mathematics and reading comprehension tests were used in the development of the vertical scales. The writing and language arts tests were not scaled because of the nature of these assessment processes. The Degrees of Reading Power (DRP) test employs DRP unit scores which are already on a common scale across grades, obviating the need for any other development. (For more information see Congero, W.J., 1989, The Development of Vertical Scales to Enhance the Evaluation of Assessment Data. Paper presented at the annual conference of the National Council of Measurement in Education, San Francisco, CA. This paper is available through the Student Assessment and Testing Unit of the Bureau of Evaluation and Student Assessment.)

Scaled scores can be used to measure growth over time because CMT scores from all three grade levels have been placed on a common scale. These scales provide a means of monitoring students' academic progress from grade to grade. Before the scales were developed, it was difficult to assess the performance of groups of test takers as they moved from grade to grade because of differences in test length, curriculum content covered and levels of difficulty on the fourth-, sixth- and eighth-grade tests.

Since students who took the fourth-grade test in 1988 subsequently took the sixth-grade test in 1990, change in test performance can be assessed across two years' time. Similarly, change in performance can be assessed for 1991 sixth graders who took the grade four test in 1989. A summary of the overall growth in performance for these two groups of students in the content areas of mathematics and reading comprehension can be found in the 1991-92 Grade 6 Summary and Interpretations Manual. Students who took the fourth-grade test in 1986 subsequently took the sixth-grade test in 1988 and the eighth-grade test in 1990. Similarly, students who took the fourth-grade test in 1987 subsequently took the sixth-grade test in 1989 and the eighth-grade test in 1991. A summary of the overall growth in performance for these groups of students in the content areas of mathematics and reading comprehension can be found in the 1991-92 Grade 8 Summary and Interpretations Manual.

NORMATIVE INFORMATION

The CMT Program is designed to provide detailed information about fourth—, sixth— and eighth—grade students' mastery of specific skills and objectives. The provision of national norms with CMT results is intended to enhance the usefulness and flexibility of mastery test information by offering a bridge to conventional norm—referenced testing programs. The decision to provide normative information with the CMT does not change the essential purposes of our criterion—referenced testing program. The CMT will continue to be used for diagnostic and other instructional purposes with results reported at the student, classroom, school, district and state levels.

In particular, national norms provide greater:

o Test Economy. By providing national norms with CMT results, school districts can eliminate their standardized testing programs at these grades, thus saving money and undue testing time while retaining normative data.



- o Test Efficiency. Federal compensatory programs require the systematic testing of students using instruments that can provide normative information. Because norms are provided with the CMT, school districts will not have to "double test" compensatory program students. This service allows for increased instructional time for these students.
- o Test Interpretability. Criterion-referenced test (CRT) programs may be criticized because the public has difficulty interpreting CRT performance. National norms will assist in the interpretation of CMT performance by providing a traditional benchmark with which the public is familiar.

Development of Norms

In order to provide estimated national norm-referenced data based on CMT performance, items on the CMT were statistically linked to items on a nationally norm-referenced test (NRT). Content-appropriate items from a nationally normed host test were included on the CMT to provide a common referent to both tests. Test equating procedures were then used to link CMT items with the normed test by placing all the items on a common scale. With this linkage in place, estimates of how the performance of Connecticut students compares to a national sample could be made. The NRT used to accomplish this task was the sixth edition of the Metropolitan Achievement Test (MAT-6), normed in 1986. The equating of the CMT to the MAT-6 enabled group summary scores on the CMT to be interpreted relative to the MAT-6 nationally representative normative data.

The CMT was initially equated to the MAT-6 during the pilot testing phase to investigate the relationship of the test content and material between the two tests and the differential nature of the items included on the CMT and MAT-6. In addition, these preliminary data provided a benchmark by which the stability of the link could be monitored over time. The stability issue is monitored each year by readministering MAT-6 items during CMT administrations using representative statewide samples. The comparison of these data with prior information provides the information necessary to identify the instructional effects on student performance over time and to update the CMT/MAT-6 link as appropriate. This monitoring and updating ensures the continued accuracy of the normative estimates.

RESEARCH OPTIONS PROGRAM

The Research Options Program is a free service provided by the Connecticut State Department of Education (CSDE) to help educators and educational policymakers gain access to the extensive information available from the Connecticut Mastery Test (CMT). Participation in the Research Options Program is completely voluntary.

The Research Options Program allows educators and educational policymakers (i.e., superintendents, principals, researchers, evaluators and school board members) to benefit from customized research investigations designed to suit their individual needs or questions. Many school districts have taken advantage of the Research Options Program in previous years to successfully address special local concerns.

The Research Options Program provides a number of ways of examining student achievement, as measured by the CMT. For example, one method is to compare aggregated student test scores obtained from the CMT in two or more categories of interest. Categories might include males and females, special program students compared to non-special program students, or any other comparison. These reports include tables that show the proportion of students mastering each objective, average number of objectives mastered and the achievement indicators for students on each component of the test under consideration. These breakdowns allow district personnel to directly compare the performance of specific groups of students. In addition, graphics are provided, as appropriate, with each report in order to simplify the task of interpreting data.

The Research Options component of the CMT has grown a great deal since the first study was performed on the Connecticut Basic Skills Proficiency Test almost a decade ago. This year, test directors and evaluators in 26 districts took advantage of this valuable resource to address questions of local interest. In addition, statewide programs such as Bilingual Evaluation, Chapter I and School Effectiveness have used the research options to obtain useful information for participants in over 100 districts. [For more information see Mooney, R.F., 1989, The Connecticut Mastery Test Research Options Program: The Application of State Criterion-Referenced Test Reports for Local Research Needs. Paper presented at the annual conference of the National Council of Measurement in Education, San Francisco, CA. See also the Research Options Handbook (1988) provided by the Connecticut State Department of Education. (These references are available through the Student Assessment Unit of the Bureau of Evaluation and Student Assessment.)]

TEST ADMINISTRATION AND SCORING

The regular administration of the Connecticut Mastery Test (CMT) for 1991 was conducted using Form D during a three-week period commencing on September 23, 1991. Test sessions were conducted by local school district staff under the supervision of local test coordinators who had been trained by staff of the Connecticut State Department of Education (CSDE) and The Psychological Corporation (TPC). A student who took all subtests participated in approximately six and one-half hours of testing.

The Grade 4 Connecticut Mastery Test had seven testing sessions.

- Mathematics I (60 minutes)
- Mathematics II (60 minutes)
- Writing Sample (45 minutes)
- Degrees of Reading Power (60 minutes)
- Reading Comprehension (60 minutes)
- Listening Comprehension (45 minutes)
- Writing Mechanics/Locating Information (60 minutes)

At the conclusion of the make-up testing period, answer booklets were returned to TPC in San Antonio, Texas for optical scanning and scoring, and then organized in preparation for holistic scoring workshops.



Scoring of the Language Arts and Mathematics Tests

The mathematics and language arts multiple-choice tests were machine-scored by TPC. Mathematics scores were reported for the total test as well as for mastery by each objective. Language arts scores were reported for mastery of each objective only.

Scoring of the Writing Sample

Every writing sample was scored by Connecticut educators using a technique known as the holistic scoring method. Holistic scoring is an impressionistic and quick scoring process that rates written products on the basis of their overall quality. It relies upon the scorers' trained understanding of the general features that determine distinct levels of achievement on a scale appropriate to the group of writing pieces being evaluated. All participants received on-site training and were required to demonstrate a clear understanding of the scoring criteria prior to actually scoring student essays. Each paper receives a final score between 2 and 8, where 2 represents a poor paper and 8 represents a superior paper. A thorough description of the training and scoring process, including sample papers representing different holistic scores, is presented in Appendix E (p. 45).

Analytic Scoring

All papers receiving holistic scores at or below the remedial standard of 4 also received analytic scoring in four categories (traits): focus, organization, support/elaboration and conventions. Analytic scoring is a thorough, trait-by-trait analysis of those components of a writing sample that are considered important to any piece of writing in any context. This scoring procedure can provide a comprehensive picture of a student's writing performance if enough traits are analyzed. It can identify those traits that make a piece of writing effective or ineffective. However, the traits need to be explicit and well defined so that the raters understand and agree upon the basis for making judgments about the writing sample. The analytic rating guide and sample marker papers for the analytic scoring are presented in Appendix F (p. 57).

Scoring of the Degrees of Reading Power (DRP) Test

The DRP multiple-choice test was machine-scored by TPC. The scores reported are in DRP units. These scores identify the difficulty or readability level of prose that a student can comprehend. This makes it possible to match the difficulty of written materials with student ability. These scores can be better interpreted by referring to the readability levels of some general reading materials as shown below:

- o Elementary textbooks (grades 3-5) 35-58 DRP Units
- o Fiction Section children's magazines 48 DRP Units

A much more extensive list of reading materials is contained and rated in the Readability Report, Seventh Edition, published by The College Board.



The conversion between DRP unit scores and raw scores can be made from the tabled values obtainable through the Student Assessment and Testing Unit of the Bureau of Evaluation and Student Assessment.

SCHOOL DISTRICT TEST RESULTS REPORTING

The CMT school district reports are designed to provide useful and comprehensive test achievement information about districts, schools and students. Four standard test reports are generated to assist superintendents, principals, teachers, parents and students to understand and use criterion-referenced test results. Appendix G (p. 61) presents samples of the district, school, class and parent/student diagnostic score reports.

FALL 1991 STATEWIDE TEST RESULTS

The Grade 4 Connecticut Mastery Test provides a comprehensive evaluation of student performance on specific skills that Connecticut educators feel are important at the beginning of fourth grade. The mastery test's greatest instructional utility lies in its identification of areas of student weakness and strength. This report profiles the statewide results. Each school district also receives a full complement of reports that identify patterns of academic strength and weakness at the district, school, classroom and individual student levels.

Chart 1 (p. 12) gives a statewide summary of the average number of objectives mastered (mathematics and language arts), average writing and reading scores, the number of students scored, the number of students scoring at or above the remedial standard and goal (where applicable) and the percent of students scoring at or above the remedial standard and goal (where applicable).



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The following are highlights of the 1991 Grade 4 CMT results:

MATHEMATICS

- o Fourth graders mistered an average of 21.2 of the 25 objectives tested, representing no change from last year.
- o A total of 88.4% of the students scored at or above the remedial standard, up slightly from last year's figure of 88.3%.
- o A total of 62.3% of the students scored at or above the mathematics goal, an increase from last year's figure of 61%.

LANGUAGE ARTS

o Fourth graders mastered an average of 6.3 of the 9 objectives tested, representing no change from last year.

WRITING

- o Fourth graders averaged 4.9 on a scale of 2 to 8, down slightly from last year's 5.1.
- o A total of 89.0% of the students scored at or above the remedial standard, an increase from last year's figure of 87.8%.
- O A total of 13.9% of the students scored at or above the writing goal, down from last year's figure of 18%.

READING

- o Fourth graders averaged 49 units on the Degrees of Reading Power (DRP) test; up slightly from last year's average of 48 units.
- o A total of 76% of the students scored at or above the remedial standard, an increase from last year's figure of 72.9%.
- O A total of 52.8% of the students scored at or above the reading goal, an increase from last year's figure of 49%.



CHART 1 1991 CONNECTICUT MASTERY TEST RESULTS GRADE 4 STATEWIDE SUMMARY

| | AVERAGE NUMBER OF OBJECTIVES | NUMBER OF STUDENTS | | AT OR ABOVE STANDARD* | | AT OR ABOVE |
|----------------|------------------------------------|-----------------------|--------|--------------------------|--------|-------------|
| SUBJECT | MASTERED | SCORED | NUMBER | PERCENT | NUMBER | PERCENT |
| MATHEMATICS | 21.2 | 35,457 | 31,332 | 88.4% | 22,073 | 62.3% |
| LANGUAGE ARTS | 6.3 | 35.067 | | | | |
| | AVERAGE HOLISTIC SCORE | | | | | |
| WRITING SAMPLE | 4.9 | 34.877 | 31,026 | 89.0% | 4.848 | 13.9% |
| | AVERAGE DRP UNIT SCORE | | | | | |
| READING | 49 | 35.312 | 26.843 | 76.0% | 18,632 | 52.8% |

* MATHEMATICS REMEDIAL STANDARD = 69 ITEMS CORRECT

WRITING REMEDIAL STANDARD = 4

READING REMEDIAL STANDARD = 41 DRP UNITS

** MATHEMATICS GOAL = 22 OBJECTIVES MASTERED

WRITING GOAL = 7

READING GOAL = 50 DRP UNITS



Mathematics

In mathematics, fourth graders mastered an average of 21.2 objectives, or 84.8%, of the 25 objectives tested. While the state's goal is that all students master every objective, an interim standard (22 of 25 objectives mastered) has been established which represents a high level of mathematics achievement. Chart 2 (p. 15) illustrates that, statewide, students demonstrated strength (85% or more students achieving mastery) in the basic conceptual and computational skills and simple applications objectives of determining one and ten more/less than a number; addition/subtraction facts with and without regrouping; identifying shapes/angles/sides and objects in arrays; rewriting numbers using expanded notation; reading and interpreting graphs and tables; telling time; determining the value of a set of coins; identifying number sentences and needed information from problems; and solving story problems with addition and subtraction. However, students did not perform as effectively (only 50% of the students achieving mastery) on the objective of rewriting numbers by regrouping. This objective assesses the understanding of place value as well as regrouping for multi-digit computation.

There continues to be a consistent pattern throughout the mathematics subtests of student strengths in primarily computational skills and easy one-step routine applications. These strengths are offset by a pattern of student weaknesses on higher order objectives. For example, students are consistently strong in their ability to recall number facts and compute with whole numbers. However, there is a weakness in regrouping and estimating.

Students getting fewer than 69 questions correct on the 100-question mathematics section (11.6% of fourth grade students tested) were identified as needing further diagnosis and possible remedial instruction.

Language Arts

In language arts, fourth-grade students averaged 6.3 objectives, or 70.0% of the 9 objectives tested. The state's goal is that all students master every objective. Chart 3 (p. 16) illustrates that students did reasonably well on writing mechanics, as well as locating information and literal reading comprehension. However, weaknesses were found in the higher order inferential and evaluative listening and reading comprehension objectives. These results indicate that students need to learn more effective comprehension strategies while simultaneously being exposed to a wide variety of reading selections.



In writing, fourth-grade students averaged 4.9 points on a scale of 2 through 8. The state's goal is that all students be able to produce an organized, well-supported piece of writing, that is, a holistic score of 7 or 8. Chart 4 (p. 17) illustrates that 14% of the students produced an organized, well-supported piece of writing (scores of 7 or 8), and an additional 44% produced a paper which is generally well organized (scores of 5 or 6). A total of 31% of the students scored a 4, which indicates minimally proficient writing, while the remaining 11% scored below the remedial standard (scores of 2 or 3).

In reading (Degrees of Reading Power test), fourth-grade students average 49 units on a scale of 15 through 84. The state's goal is that all students be able to read with high comprehension those materials typically used at the fourth grade or above; that is, at least 50 on the DRP unit scale. Chart 5 (p. 18) illustrates that 53% of the students scored at least 50 on the DRP score scale, 23% scored between 41 and 49 and 24% scored below the remedial standard of 41. The average score of 49 suggests that Connecticut fourth graders typically can read and comprehend expository materials normally used up to grade four. These results indicate that students will probably benefit from continued exposure to nonfiction materials in the primary grades.

MATHEMATICS: PERCENT OF STUDENTS ACHIEVING MASTERY FOR EACH OBJECTIVE CHART 2

CONCEPTUAL UNDERSTANDINGS

- DETERMINE 1 AND 10 MORE/LESS THAN # **EXTEND PATTERNS: #'S AND ATTRIBUTES**
 - ORDER WHOLE NUMBERS
- REWRITE #'S BY EXPANDED NOTATION 4.
- REWRITE #'S BY REGROUPING: 10'S & 1'S
- ID FRACTIONAL PARTS OF REGIONS/SETS RELATE MULT/DIV FACTS TO PICTURES ø.

COMPUTATIONAL SKILLS

- ADDITION/SUBTRACTION FACTS TO 18
- ADD/SUBTRACT WITHOUT REGROUPING
- 10. ADD 1- & 2-DIGIT #'S WITH REGROUPING
 - **ESTIMATE SUMS/DIFFERENCES TO 100** MULTIPLY/DIVIDE BY 2, 5, 10

MATHEMATICS OBJECTIVES

-15-

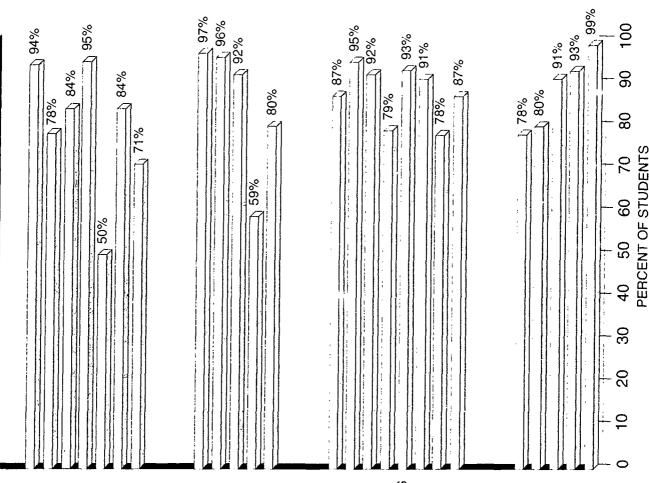
PROBLEM SOLVING/APPLICATIONS

- IDENTIFY OBJECTS IN AN ARRAY
- READ/INTERPRET GRAPHS/PICTOGRAPHS
 - READ/INTERPRET TABLES/CHARTS 5.
- ID NUMBER SENTENCES FROM PICTURES 9
- ID NUMBER SENTENCES FROM PROBLEMS 17.
 - SOLVE STORY PROBLEMS/EXTRA INFO SOLVE STORY PROBLEMS WITH +/-19. <u>∞</u>

20. IDENTIFY NEEDED INFO IN PROBLEMS

MEASUREMENT/GEOMETRY

- MEASURE LENGTHS/IDENTIFY UNITS
 - **ESTIMATE LENGTHS/AREAS**
- TELL TIME TO NEAREST 1, 1/2, 1/4 HOUR 23.
 - DETERMINE VALUE OF A SET OF COINS 24. 25.
 - IDENTIFY SHAPES/ANGLES/SIDES



This bar chart illustrates the percent of students, statewide, who mastered each of the 25 mathematics objectives.

LANGUAGE ARTS: PERCENT OF STUDENTS ACHIEVING MASTERY FOR EACH OBJECTIVE CHART 3

WRITING MECHANICS

- 1. CAPITALIZATION AND PUNCTUATION
- 2. SPELLING/HOMONYMS/ABBREVIATIONS
- 3. AGREEMENT

LOCATING INFORMATION

4. SCHEDULES/MAPS/BOOKS/DICTIONARIES

LANGUAGE ARTS OBJECTIVES

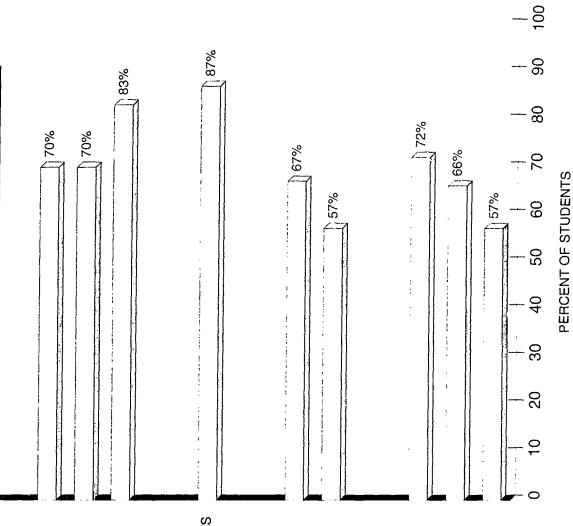
LISTENING COMPREHENSION

- 5. LITERAL
- 6. INFERENTIAL/EVALUATIVE

READING COMPREHENSION

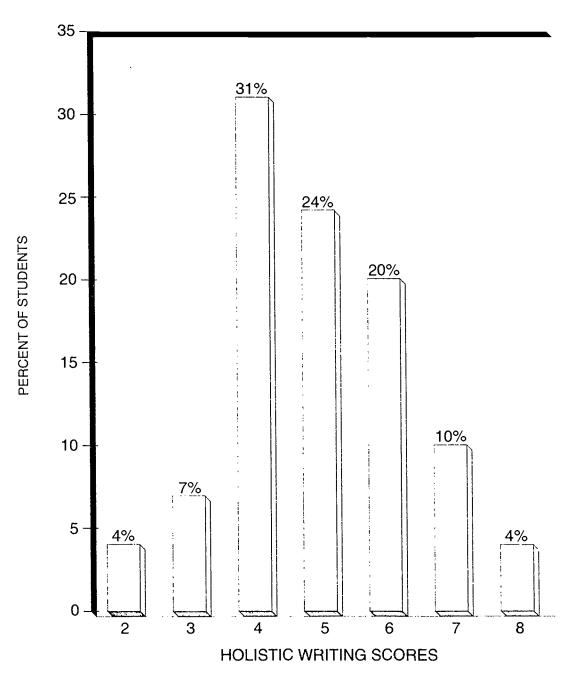
- 7. LITERAL
- 8. INFERENTIAL
- 9. EVALUATIVE

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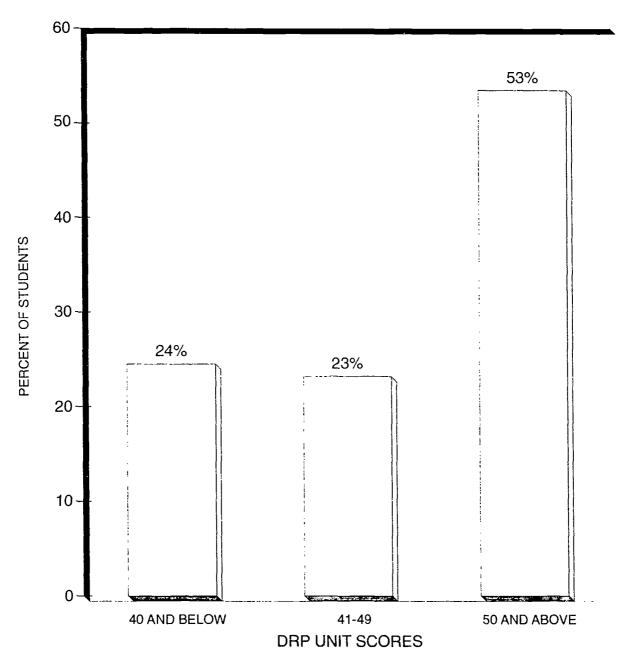
CHART 4 WRITING SAMPLE: PERCENT OF STUDENTS AT EACH SCORE POINT



This bar chart illustrates the distribution of students who received each *holictic writing* score, statewide. Holistic writing scores are interpreted as follows: a student who scores 7 or 8 has produced a paper which is well written with developed supportive detail; a student who scores 5 or 6 has produced a paper which is generally well organized with supportive detail; a student who scores 4 is minimally proficient; and a student who scores 2 or 3 is in need of further diagnosis and possible remedial assistance.



CHART 5 DEGREES OF READING POWER® (DRP)®: PERCENT OF STUDENTS AT SELECTED RANGES OF DRP UNIT SCORES



This bar chart illustrates the distribution of students, statewide, scoring in each of three *Degrees of Reading Power* (DRP) score categories. DRP score categories are interpreted as follows: a student who scores 50 DRP units or above has met the statewide Reading Goal and can read, with high comprehension, materials which are typically used at grade 4 or above; a student who scores 41-49 DRP units can read, with high comprehension, materials which are typically used below grade 4 but above the Remedial Standard; and a student who scores 40 DRP units or below is in need of further diagnosis and possible remedial assistance.



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COMPARISON OF 1985 THROUGH 1991 TEST RESULTS

Charts 6-12 (pp. 21-27) address the comparison of the 1985 through 1991 test results. Charts 6 (p. 21), 9 (p. 24) and 10 (p. 25) present a comparison of statewide average scores on the four subtests, a comparison of the percent of students scoring at or above the remedial standard and a comparison of the percent of students scoring at or above the statewide goals, respectively. The remaining four charts provide a comparison of the percent of students achieving mastery in each mathematics objective (Chart 7, p. 22) and each language arts objective (Chart 8, p. 23), a comparison of student achievement in relation to the remedial standards (Chart 11, p. 26), and a comparison of student achievement in relation to the goals (Chart 12, p. 27).

Chart 6 (p. 21) shows that the statewide average scores increased in all areas tested when 1991 results are compared to 1985 results. In mathematics, the average number of objectives mastered increased from 19.3 in the initial assessment in 1985 to 21.2 in 1991. Mathematics scores have either increased slightly or remained unchanged in each of the test administrations indicating a positive trend. DRP reading performance has also been moving slowly in a positive direction. While the average DRP score was unchanged from 1988 to 1989, there has been a one point increase in each other year moving from 43 in 1985 to 49 in 1991. The average number of language arts objectives mastered has increased slightly over the life of the CMT program from 6.1 objectives mastered in 1985 to 6.3 mastered in 1991. Student performance on the writing samples showed some progress from 1985 to 1991 with the average holistic score increasing from 4.8 to 4.9.

Chart 7 (p. 22) lists the percent of students at mastery for each of the 25 mathematics objectives. From 1985 to 1991, 24 objectives have shown a gain in percent of students at or above mastery and 1 has declined slightly. A comparison of the 1991 and 1985 results shows large gains (at least 10 percentage points) in the percent of students meeting the mastery standard in the following objectives: rewriting numbers by regrouping; identifying fractional parts; relating multiplication/division facts to pictures; estimating sums and differences; reading and interpreting tables/charts; identifying number sentences from pictures; and estimating lengths and areas.

Chart 8 (p. 23) lists the percent of students at mastery for each of the 9 language arts objectives. From 1985 to 1991, 6 objectives have shown a gain in percent of students at or above mastery and 3 objectives have declined.

When 1991 results are compared with 1985, inferential reading comprehension showed the most improvement in the percent of students at mastery with a 15 percentage point gain.

Chart 9 (p. 24) compares the percent of students who scored at or above the remedial standard in mathematics, writing and reading (DRP) for 1985 through 1991. In each content area there has been a gain in the percent of students meeting the remedial standard over the seven CMT administrations. In mathematics, the remedial standard is 69 out of 100 items correct. There was an 8 percentage point increase in performance at or above the remedial standard from 1985 (80%) to 1991 (88%). In writing, the remedial standard is 4 on a scale from 2 to 8. The percent of students scoring at or above the remedial standard increased from 81% in 1985 to 89% in 1991. In reading (DRP) the remedial standard is 41 DRP units with 70% comprehension. There was an 8 percentage point increase in performance at or above the remedial standard from 1985 (68%) to 1991 (76%).



Chart 10 (p. 25) compares the percent of students scoring at or above the statewide goals in mathematics, writing and reading from 1985 through 1991. In mathematics, the goal is 22 of 25 objectives mastered. There was a 20 percentage point increase in performance at or above the statewide goal from 1985 (42%) to 1991 (62%). In writing, the goal is 7 on a scale of 2 to 8. The percent of students scoring at or above the statewide standard decreased slightly from 17% in 1985 to 14% in 1991. In reading (DRP) the statewide goal is 50 DRP units with 70% comprehension. There was an 11 percentage point increase in performance at or above the goal from 1985 (42%) to 1991 (53%).

Chart 11 (p. 26) is a comparison of student achievement in relation to the remedial standards for 1985 through 1991. Over the seven-year period, the percent of students at or above the remedial standard on all three tests (mathematics, reading, writing) has increased from 58.6% in 1985 to 68.5% in 1991, while the percent of students below the remedial standard on all three tests has declined from 8.2% in 1985 to 3.5% in 1991. The percent of students below the remedial standard on one or more subtests has also dropped from 40.4% in 1985 to 30.0% in 1991.

Chart 12 (p. 27) is a comparison of student achievement in relation to the goals for 1985 through 1991. Over the seven-year period, there has been a slight increase in the percent of students reaching the statewide goal on all three tests (mathematics, reading, and writing), while the percent of students below the statewide goal on all three tests has declined from 43.2% in 1985 to 28.0% in 1991. The percent of students above the statewide goal on one or more subtests has increased from 55.6% in 1985 to 69.8% in 1991.

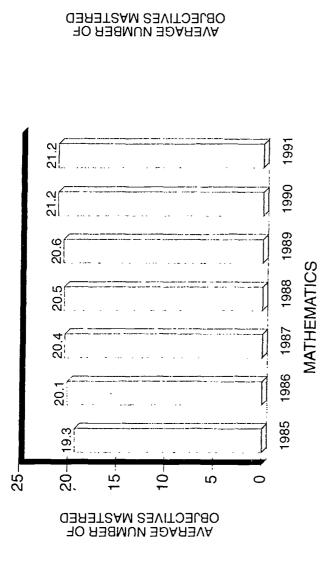
Test Results by District

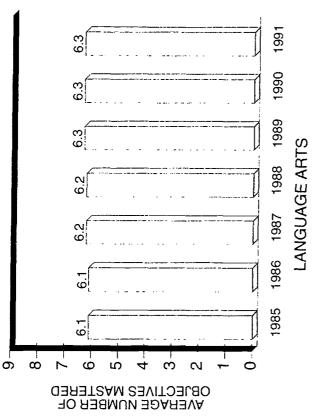
Appendices H and I address the comparison of test results by school district. Appendix H (p. 73) and Appendix I (p. 81) present a listing of the mathematics and language arts test results, respectively, for each Connecticut school district. In each appendix, school districts are listed alphabetically, followed by regional school districts. The Type of Community (TOC) designation in the second column and the Education Reference Group (ERG) designation in the third column indicate the TOC and ERG groups with which each district or school has been classified. Definitions of the TOC and ERG classifications are provided in Appendix J (p. 89) and Appendix K (p. 91), respectively. TOC and ERG summaries follow the alphabetical listings of school district results in mathematics and language arts.

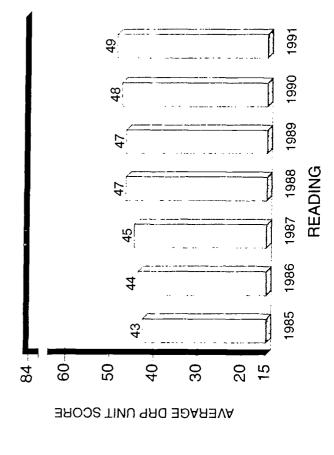
The State Department of Education advises against comparing scores between and among school districts. It is more meaningful to compare district results longitudinally within each district. It is also not appropriate or meaningful to sum across the different tests and subtests for comparative purposes because of differences in test length, mastery criteria and remedial standards. These comparisons are inappropriate because it is impossible to identify, solel, on the basis of this information, how the average student has performed in the districts being compared. Average scores and standard deviations provide more appropriate comparative information on how well the average student is performing, although many factors may affect the comparability of these statistics as well.



CHART 6 COMPARISON OF STATEWIDE AVERAGE SCORES FOR 1985 THROUGH 1991







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AVERAGE HOLISTIC SCORE

WRITING

CHART 7 MATHEMATICS: COMPARISON OF THE PERCENT OF STUDENTS ACHIEVING MASTERY IN EACH OBJECTIVE FOR 1985 THROUGH 1991

| OBJECTIVE | | | | NT OF ST | | | - | PERCENTAGE POINT GAIN FROM 1985 TO 1991 |
|--|------|--------------|------|--------------|--------------|------------------|--------------|--|
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | |
| CONCEPTUAL UNDERSTANDINGS | | | | | | | | |
| 1. DETERMINE 1 AND 10 MORE/LESS THAN # | 91°. | 92% | 93% | 91% | 91% | 93% | 94°。 | 3% |
| 2 EXTEND PATTERNS. #'S AND ATTRIBUTES | 72°c | 75% | 78% | 69% | 71% | 77°° | 78°• | 6% |
| 3. ORDER WHOLE NUMBERS | 78° | 82% | 84% | 83°a | 83% | 83% | 84° | 6% |
| 4 REWRITE #'S BY EXPANDED NOTATION | 96% | 96% | 96% | 96% | 96% | 95% | 95°• | -1% |
| 5. REWRITE #'S BY REGROUPING 10'S & 1'S | 35°° | 39°. | 41°° | 45% | 48% | 49°° | 50% | 15% |
| 6 ID FRACTIONAL PARTS OF REGIONS/SETS | 73°° | 85°a | 86% | 90° | 90% | 83% | 84°a | 11% |
| 7. RELATE MULT/DIV FACTS TO PICTURES | 54°° | 61°• | 62°. | 59°. | 60% | 71° ₆ | 71°c | 17°° |
| COMPUTATIONAL SKILLS | | | | | | | | |
| 8. ADDITION/SUBTRACTION FACTS TO 18 | 91% | 97°。 | 97°• | 98% | 98% | 97°₀ | 97°。 | 6°。 |
| 9. ADD/SUBTRACT WITHOUT REGROUPING | 95% | 96% | 97°₀ | 97°。 | 97° 。 | 96°• | 96% | 1°0 |
| 10. ADD 1- & 2-DIGIT #'S WITH REGROUPING | 89°₀ | 87% | 88% | 84% | 85°。 | 92°° | 92% | 3% |
| 11. ESTIMATE SUMS DIFFERENCES TO 100 | 28°。 | 46°。 | 52°。 | 49°。 | 51°。 | 59°• | 59°。 | 31% |
| 12. MULTIPLY/DIVIDE BY 2. 5, 10 | 79°° | 80% | 81°。 | 78°。 | 78° 。 | 80% | 80% | 1°o |
| PROBLEM SOLVING/APPLICATIONS | | | | | { | 1 | | |
| 13. IDENTIFY OBJECTS/NUMBERS IN AN ARRAY | 82°。 | 87°。 | 88°。 | 89% | 90°。 | 87°。 | 87°。 | 5°∘ |
| 14. READ/INTERPRET GRAPHS/PICTOGRAPHS | 89°• | 90% | 91% | 92% | 93% | 95°• | 95°₀ | 6% |
| 15 READ/INTERPRET TABLES/CHARTS | 78°• | 84°。 | 86°. | 90⁰。 | 91°。 | 92°。 | 92°。 | 14°。 |
| 16 ID NUMBER SENTENCES FROM PICTURES | 57°° | 58°。 | 60°。 | 60°。 | 62°。 | 79°• | 79°。 | 22°。 |
| 17. ID NUMBER SENTENCES FROM PROBLEMS | 91°° | 91% | 92% | 93% | 93% | 93°₀ | 93% | 2% |
| 18 SOLVE STORY PROBLEMS WITH +/~ | 83% | 76°。 | 78°。 | 85% | 85°。 | 91°。 | 91% | 8% |
| 19. SOLVE STORY PROBS WITH EXTRA INFO | 73°° | 63°• | 65°。 | 78°。 | 79°。 | 77°。 | 78°• | 5% |
| 20 IDENTIFY NEEDED INFO IN PROBLEMS | 79°₀ | 82% | 83°。 | 83% | 83% | 87% | 87°。 | 8°. |
| MEASUREMENT/GEOMETRY | | | | | | | | |
| 21 MEASURE LENGTHS/IDENTIFY UNITS | 76°。 | 79⁰₀ | 81°• | 82° 。 | 83% | 78°。 | 78° 。 | 2% |
| 22 ESTIMATE LENGTHS/AREAS | 70°。 | 79°。 | 81°。 | 72% | 72% | 80°• | 80% | 10°° |
| 23 TELL TIME TO NEAREST 1, 1/2, 1/4 HOUR | 86°。 | 90°₀ | 91°° | 94°₀ | 95°。 | 91% | 91°6 | 5% |
| 24 DETERMINE VALUE OF A SET OF COINS | 91% | 93° 。 | 94% | 92°。 | 92% | 92% | 93% | 2°0 |
| 25. IDENTIFY SHAPES'ANGLES'SIDES | 97°¢ | 97°° | 97°。 | 97% | 97% | 99° | 99°• | 2°。 |
| | | | | | | | | |

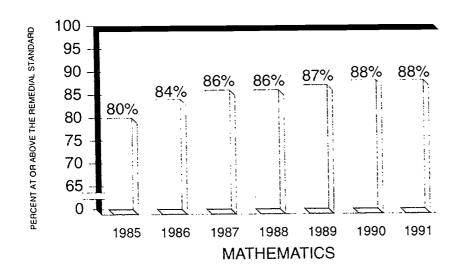


CHART 8 LANGUAGE ARTS: COMPARISON OF THE PERCENT OF STUDENTS ACHIEVING MASTERY IN EACH OBJECTIVE FOR 1985 THROUGH 1991

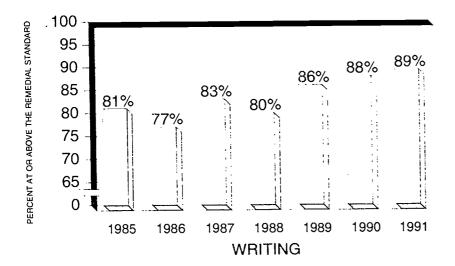
| OBJECTIVE | | | | IT OF STU MASTER | | | | PERCENTAGE POINT GAIN FROM 1985 TO 1991 |
|--|------|------------------|------|---------------------|------------------|------|------|--|
| WRITING MECHANICS | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | |
| 1. CAPITALIZATION AND PUNCTUATION | 74°₀ | 83% | 85% | 70% | 72% | 71% | 70% | -4% |
| 2. SPELLING/HOMONYMS/ABBREVIATIONS | 66% | 62% | 62% | 68% | 67% | 71% | 70% | 4% |
| 3. AGREEMENT | 80% | 81% | 82% | 84% | 84% | 83% | 83% | 3% |
| LOCATING INFORMATION 4. SCHEDULES/MAPS/BOOKS/DICTIONARIES | 81% | 85% | 87% | 88% | 89% | 88% | 87% | 6% |
| LISTENING COMPREHENSION | | | | | | | | |
| 5. LITERAL | 73% | 54% | 55% | 68% | 68% | 66°6 | 67% | -6% |
| 6. INFERENTIAL/EVALUATIVE | 60% | 64°6 | 66% | 74% | 74% | 57% | 57% | -3% |
| READING COMPREHENSION | | | | | | | | |
| 7. LITERAL | 67% | 71°6 | 73% | 65% | 66° _° | 72% | 72% | 5% |
| 8. INFERENTIAL | 51% | 58% | 60% | 52% | 53% | 67% | 66% | 15% |
| 9. EVALUATIVE | 55°6 | 52° _° | 54% | 51% | 52% | 58% | 57% | 2°% |
| | | | | | | | | |
| | | | | | | | | |



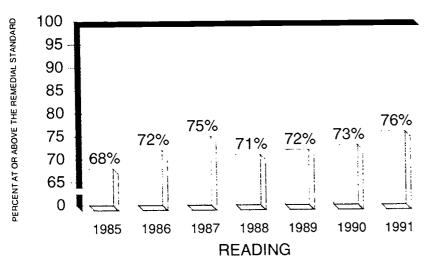
CHART 9 COMPARISON OF THE PERCENT OF STUDENTS SCORING AT OR ABOVE THE REMEDIAL STANDARD IN EACH SUBJECT AREA FOR 1985 THROUGH 1991



MATHEMATICS GROWTH SINCE 1985 8%



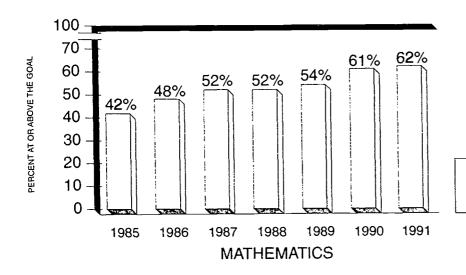
WRITING GROWTH SINCE 1985 8%



READING GROWTH SINCE 1985 8%

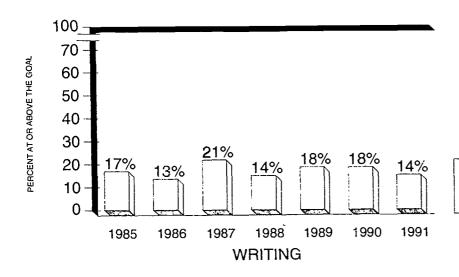


CHART 10 COMPARISON OF THE PERCENT OF STUDENTS SCORING AT OR ABOVE THE GOAL IN EACH SUBJECT AREA FOR 1985 THROUGH 1991



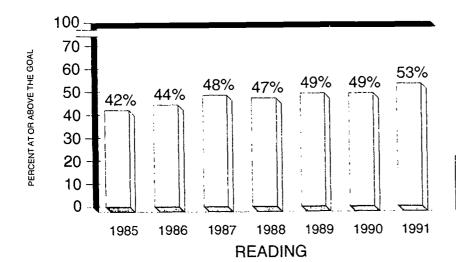
MATHEMATICS GROWTH SINCE 1985 20%

MATHEMATICS GOAL IS 22 OF 25 OBJECTIVES MASTERED



WRITING GROWTH SINCE 1985 -3%

WRITING GOAL IS 7 ON A SCALE OF 2 TO 8



READING GROWTH SINCE 1985 11%

READING GOAL IS 50 DRP UNITS WITH 70% COMPREHENSION



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CHART 11 COMPARISON OF STUDENT ACHIEVEMENT IN RELATION TO THE REMEDIAL STANDARDS 1985 THROUGH 1991 ADMINISTRATIONS

| | 19 | 1985 | 1986 | æ | 9 | 1987 | 1988 | 80 | 1989 | 8 | 1990 | ç | 1961 | _ |
|---|--------|----------------|--------|---------|--------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|------------------|
| | NUMBER | NUMBER PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER PERCENT | PERCENT |
| STUDENTS AT OR ABOVE THE STANDARD: | | | | | | | | | | | | | | |
| ON ALL THREE TESTS | 17.499 | 58.6 | 18.311 | 59.8 | 19.840 | 63 9 | 19.387 | 60 4 | 21.520 | 65.0 | 22.788 | 662 | 24.502 | 68.5 |
| ON TWO OF THE TESTS | 5.647 | 18.9 | 6.109 | 19.9 | 5.997 | 193 | 6.590 | 20 5 | 6.259 | 18 9 | 6.571 | 191 | 6.251 | 17.5 |
| ON ONE OF THE TESTS | 3.913 | 13.1 | 3.617 | 11.8 | 3.341 | 108 | 3 883 | 12.1 | 3.348 | 101 | 3 379 | 9.8 | 3.255 | 1.6 |
| ON NONE OF THE TESTS | 2.822 | 94 | 2.588 | 8 5 | 1.867 | 09 | 2.259 | 7.0 | 1.975 | 9 | 1.666 | 8 | 1,737 | 4 9 |
| | | | | | | | | | | | | | | |
| STUDENTS BELOW THE STANDARD: | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT |
| ON ALL THREE TESTS | 2.459 | 82 | 2.265 | 7 4 | 1.643 | 53 | 1.804 | 56 | 1 665 | 9.0 | 1 376 | 40 | 1,249 | 35 |
| ON TWO OF THE TESTS | 3 943 | 132 | 3.671 | 120 | 3.284 | 106 | 3.993 | 12.4 | 3.404 | 103 | 3 346 | 9.7 | 3,210 | 06 |
| ON ONE OF THE TESTS | 5 664 | 190 | 6 113 | 20 0 | 5.729 | 185 | 6.647 | 20 7 | 6.204 | 187 | 6.556 | 191 | 6.281 | 176 |
| ON NONE OF THE TESTS | 17.815 | 969 | 18 576 | 2 09 | 20 389 | 65 7 | 19.675 | 613 | 21,829 | 659 | 23.126 | 67.2 | 25,005 | 0 02 |
| | | | | | | | | | | | | | | |
| NUMBER OF STUDENTS TESTED | 29.881 | | 30.625 | | 31.045 | | 32 119 | | 33.102 | | 34.404 | | 35.745 | |
| | | | | | | | | | | | | | | |
| NUMBER OF STUDENTS BELOW REMEDIAL STANDARD ON ONE OR MORE SUBTESTS (UNDUPLICATED COUNT) | 12 066 | 40.4 | 12 049 | 39 3 | 10.656 | 343 | 12,444 | 38.7 | 11 273 | 342 | 11 278 | 328 | 10.740 | 30 0 |
| | | | | | | | | | | | | | | - - - - |



C C

CHART 12 COMPARISON OF STUDENT ACHIEVEMENT IN RELATION TO THE GOALS 1985 THROUGH 1991 ADMINISTRATIONS

| | 1985 NUMBER PERCENT | 5 PERCENT | 1986 NUMBER PE | 86 PERCENT | 1987 NUMBER P | 97 PERCENT | 1988 NUMBER PE | 98 PERCENT | 1989 NUMBER PE | PERCENT | 1990 NUMBER PI | 90 PERCENT | 1991 NUMBER P | 91 PERCENT |
|--|------------------------|--------------|-------------------|---------------|------------------|---------------|-------------------|---------------|-------------------|---------|-------------------|---------------|------------------|---------------|
| STUDENTS AT OR ABOVE THE STATE GOAL: | | | | | | | | | | | | | | |
| ON ALL THREE TESTS | 3.159 | 106 | 2 739 | 8 8 | 4.535 | 146 | 3.268 | 102 | 4.203 | 12.7 | 4.498 | 13.1 | 3,910 | 109 |
| ON TWO OF THE TESTS | 608 9 | 22 R | 8 373 | 27.3 | 8.825 | 28 4 | 9.482 | 29 5 | 9.768 | 29 5 | 11.092 | 32.2 | 12.777 | 35.7 |
| ON ONE OF THE TESTS | 6 634 | 22 2 | 4 000 | 52 9 | 996.9 | 22 4 | 7 497 | 233 | 7.409 | 22 4 | 8.044 | 23.4 | 8.273 | 23 1 |
| ON NONE OF THE TESTS | 13 279 | 444 | 12.504 | 408 | -717 | 34 5 | 11.872 | 37.0 | 11.722 | 35 4 | 10.770 | 31.3 | 10.785 | 30.2 |
| | | | | | | | | | | | | | | |
| STUDENTS BELOV 'STATE GOAL: | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT | NUMBER | PERCENT |
| ON ALL THREE TLSTS | 12 912 | 43.2 | 12.009 | 39.2 | 10,549 | 340 | 11,547 | 36 0 | 11,344 | 343 | 10.311 | 30 0 | 10.011 | 28.0 |
| ON TWO OF THE TESTS | 6 932 | 23 2 | 7.369 | 24 1 | 7.104 | 22 9 | 7.678 | 23.9 | 7.616 | 230 | 8.306 | 24 1 | 8,545 | 23 9 |
| ON ONE OF THE TESTS | 6 824 | 22 8 | 8.457 | 276 | 8 778 | 283 | 9 576 | 29 8 | 9 887 | 59 9 | 11,245 | 32.7 | 13.031 | 36 5 |
| ON NOWE OF THE TESTS | 3.213 | 108 | 2.790 | 16 | 4.614 | 14 9 | 3.318 | 103 | 4.255 | 129 | 4.542 | 13.2 | 4,158 | 116 |
| NUMBER OF STUDENTS TESTED | 29 881 | | 30 625 | | 31.045 | | 32 119 | | 33 102 | | 34 404 | | 35 745 | |
| NUMBER OF STUDENTS ABOVE THE STATT "OAL ON ONE OR MORE SUBTESTS (UNDUPLICATED COUNT) | 16 602 | 55 6 | 18 121 | 59.2 | 20.328 | 65.5 | 20 247 | 630 | 21.390 | 646 | 23.634 | 68 7 | 24.960 | 8 69 |



Normative Results

Normative information is provided to indicate how well the average student in Connecticut performs compared to a national sample of students. Norms have been available for the mathematics test, the language arts test and the reading comprehension test since 1987. This year, for the second year, normative information is also being provided for mathematics problem solving. These norms are based on links established between the CMT and the sixth edition of the Metropolitan Achievement Test (MAT-6). The norms are expressed in percentile ranks which provide estimates of group performance relative to the performance of the national MAT-6 norm group. Percentile ranks range from 1 to 99. A percentile rank of 50 represents the score that divides the norm group into two equal parts; half scoring below and half scoring above this value. Each reported percentile rank represents the performance of a nationally representative sample of students in relation to Connecticut student performance.

The following are the estimated norms for the grade four statewide averages. In the content areas of total mathematics, language arts and reading comprehension (not DRP), data are provided for the 1987 through 1991 administrations. Normative information in the content area of mathematics problem solving is presented for the 1990 and 1991 administrations only.

Grade Four

| | <u> 1987</u> | 1988 | 1989 | 1990 | 1991 |
|-----------------------------|--------------|------|------|------|------|
| Total Mathematics | 67 | 66 | 67 | 68 | 68 |
| Language Arts | 69 | 70 | 69 | 67 | 66 |
| Reading Comprehension | 60 | 58 | 59 | 58 | 56 |
| Mathematics Problem Solving | | | | 68 | 69 |

Patterns in the data are summarized below.

- O In each content area and administration year, the mean national percentile rankings of Connecticut students substantially exceed the national average (50th percentile rank).
- The norms for mathematics and language arts have remained similar to one another over the five years with percentile ranks ranging from 66 to 70 in value. In 1991 the reading comprehension performance continues to be lower than either mathematics or language arts when compared to a national sample.
- The percentile ranks within each content area are quite stable across the five years, differing in value by no more than four points.

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It should be pointed out that these norms provide a way to interpret the performance of the average Connecticut student relative to a national sample. They do not address the issue of how Connecticut, as a state, compares to other states. The fact that, in 1991, the average Connecticut student is at the 68th percentile in mathematics does not mean that the state as a whole would be in the 68th percentile if it were compared to other states. A



state-by-state achievement testing program has been endorsed by the Council of Chief State School Officers (CCSSO) and the National Governors' Association (NGA) and is in progress using the National Assessment of Educational Progress (NAEP) Program. Connecticut participated in the 1990 trial state assessment for mathematics at grade eight. Results of this assessment were released June 6, 1991, at a national press conference in Washington, D.C. In addition, Connecticut participated in the 1992 trial state assessment in grades four and eight.

Norms Available to Districts

Total mathematics, language arts, reading comprehension and mathematics problem solving norms can also be calculated for groups of students at the district level. Each year all districts are notified by the CMT contractor that norms for their own districts and schools within their districts are optionally available. In addition, districts are offered all materials and directions necessary to hand-calculate norms for groups of students within their districts (e.g., Chapter I students). There is no charge for either of these services. Any district that requests this information receives it directly from the CMT contractor. No district receives normative information unless it is specifically requested by the superintendent. Over one half of Connecticut school districts have requested norms in the past.

Participation Rate Results

Appendix L (p. 95) presents the number of fourth-grade students in each district and the percents of students who participated in the grade four mastery testing during the fall 1991 statewide administration. Appendix L also shows the percent of students exempted from CMT testing. The alphabetical listing of districts provides the following information for each district:

| Column | 1 | The name of the district |
|---------|-----|--|
| Column | 2 | The total fourth-grade population at the start of mastery |
| | | testing |
| Column | 3 | The number of students eligible for testing |
| Column | 4 | The percent of total population exempted from testing |
| Columns | 5–8 | The percent of eligible students tested in each content area |

The results in Appendix L illustrate that participation rates by school district on the fourth-grade CMT were quite high, with only a few exceptions. However, the high percentage of students exempted from the CMT, statewide, combined with the large variation in exemption rates among districts, has raised concerns about the fair application of exemption procedures and its impact on students. The Department has examined the impact of the exclusion provisions on the CMT programs for Special Education and bilingual students. The results from these analyses are available from the Division of Research, Evaluation, and Assessment.



APPENDIX A
Test Construction



Test Construction

The development of the fourth-grade criterion-referenced mastery test required the formation of seven statewide advisory committees. These included the Mathematics and Language Arts Advisory Committees, the Psychometrics Advisory Committee, the Bias Advisory Committee, the Connecticut Student Assessment Advisory Committee (formerly the Mastery Test Implementation Advisory Committee), and two standard-setting committees, one for mathematics and one for language arts. These committees were comprised of representatives from throughout the state. Members were selected for their area of expertise. Approximately 150 Connecticut educators participated on the mastery test committees which met over 80 times during the first 18 months of test development. (See Acknowledgements, p. v and page 44.)

Beginning in the spring of 1984, content committees in both language arts and mathematics participated in each stage of the test development process, including assisting the State Department of Education in the selection of The Psychological Corporation as its test contractor. First, the content committees reviewed the curriculum materials prevalent throughout the state and the scope of the national tests in use in Connecticut at the respective grade levels. Additional resources included the Connecticut curriculum guides in mathematics and language arts, developed in 1981, as well as the results of recent Connecticut Assessment of Educational Progress (CAEP) assessments in mathematics and language arts. Next, the committees identified sets of preliminary mathematics and language arts objectives which reflected existing curriculum materials and the goals of the mastery testing program. The content committees defined an objective as an operationalized learning outcome that was fairly narrow and clearly defined.

Four criteria were used in identifying the appropriate learning outcomes or test objectives and in selecting specific test items to be included on the Grade 4 Connecticut Mastery Test (CMT). To have been considered for use, test objectives and items must have been:

- (1) significant and important;
- (2) developmentally appropriate;
- (3) reasonable for most students to achieve; and
- (4) generally representative of what is taught in Connecticut schools.

Cnce the objectives were identified, item specifications and/or sample items were written. Item specifications are written descriptions of the types and forms of test items that assess an objective. They also prescribe the types of answer choices that can be used with each item.

After the test specifications were written and agreed upon, the test contractor wrote items and response choices for each of the objectives. The items were then reviewed by the content committees. Items which met the criteria of the test specifications and received the approval of the content committees were considered for the pilot test. Before testing, the Bias Advisory Committee reviewed each item for potential discrimination related to gender, race or ethnicity in the language or format of the question or response choices. After their review was completed, the pilot test forms were constructed. Over 500 customized Connecticut items were included in the October 1984 grade four pilot test in language arts and mathematics.



The Psychometrics Advisory Committee provided advice concerning other aspects of the pilot test including the sampling design, statistical bias analysis, the design of item specifications and pilot test administration procedures. The recommendations proposed by the Psychometrics Advisory Committee were reviewed and endorsed by the Connecticut Student Assessment Advisory Committee.

Pilot Tests

After the items had been reviewed, twelve test forms (six in mathematics and six in language arts) were piloted for the grade four test. The purpose of several pilot test forms was to ensure that enough test items were included to construct three comparable test forms from the pilot test results.

Over 6,000 grade four students participated in the October 1984 pilot test. In January 1985, the pilot test results were made available to Connecticut State Department of Education (CSDE) staff. The process of selecting items to construct three comparable test forms began by the Bias Advisory Committee examining the pilot test statistics of each item for potential bias. As a result, some items were eliminated from the item pool. From the remaining items, test forms were constructed to be equivalent in content and difficulty at both the objective and total test levels.

Once the items were sorted on this basis, the test contractor prepared three complete forms of the mathematics test and two complete forms of the language These forms were approved by the content committees. Each form arts test. was created to be equal in difficulty and test length. A third language arts test was constructed after a few additional items were piloted as part of a later test administration. Later, during subsequent CMT administrations, enough items were pilot tested to yield two additional test forms. The psychometric procedures used to construct each of these test forms focused primarily on the use of the one-parameter item response model.

Survey

In October 1984, a survey of preliminary grade four mastery test objectives was sent to over 3,000 Connecticut educators. The purpose of the survey was to determine (1) the importance of the proposed mathematics and reading/language arts objectives and (2) whether the objectives were taught prior to the beginning of grade four. Over a 50% response rate was achieved which included approximately one-third of the respondents representing urban school districts. As a result of the survey, two objectives were not considered to be important learning outcomes before fourth grade and consequently were eliminated from the fourth-grade language arts test by the Language Arts Advisory Committee.



$\label{eq:APPENDIX B} \mbox{ Grade Four Mathematics Objectives }$



Grade Four Mathematics Objectives

The 25 objectives of the fourth-grade mathematics test are listed below. There are four test items for each objective. The number of items in each domain is indicated in the parentheses.

CONCEPTUAL UNDERSTANDINGS (28)

- 1. Identify the number one more, one less, ten more or ten less than a given number
- 2. Extend patterns involving numbers and attributes
- 3. Order whole numbers
- 4. Rewrite numbers using expanded notation
- 5. Rewrite numbers by regrouping tens and ones
- 6. Identify fractional parts of regions and sets from pictures for halves, thirds, fourths and sixths
- 7. Relate multiplication and division facts to rectangular arrays

COMPUTATIONAL SKILLS (20)

- 8. Know addition and subtraction facts to 18
- 9. Add and subtract one- and two-digit numbers without regrouping
- 10. Add one- and two-digit numbers with regrouping
- 11. Estimate sums and differences to 100
- 12. Multiply and divide by 2, 5 and 10

PROBLEM SOLVING/APPLICATIONS (32)

- 13. Identify objects or numbers that do or do not belong in a collection, matrix, or array
- 14. Read and interpret bar graphs and pictographs
- 15. Read and interpret data from tables and charts
- 16. Identify or write number sentences from pictures
- 17. Identify number sentences from addition or subtraction story problems
- 18. Solve simple story problems involving addition or subtraction
- 19. Solve and identify number sentences in simple story problems involving addition and subtraction, with extraneous information
- 20. Identify needed information in problem situations

MEASUREMENT/GEOMETRY (20)

- 21. Measure length and identify appropriate units for measuring length and distance
- 22. Estimate lengths and areas
- 23. Tell time to the nearest hour, half hour and quarter hour, using analog and digital clocks
- 24. Determine the value of a set of coins
- 25. Identify shapes, angles and sides

Performance on all 25 objectives is reported at the student, classroom, school, district and state levels.



APPENDIX C Grade Four Language Arts Objectives

Grade Four Language Arts Objectives

There are nine multiple-choice objectives and two holistic measures, one for reading and one for writing, within the fourth-grade language arts test. The number of items for each content area or objective is indicated in the parentheses.

WRITING MECHANICS (36)

- 1. Capitalization and Punctuation (12)
- 2. Spelling Words, Homonyms and Abbreviations (9)
- 3. Agreement (15)

LOCATING INFORMATION (11)

 Schedules, Maps, Table of Contents, Title Page and Dictionary (11)

LISTENING COMPREHENSION (20)

- 5. Literal (7)
- 6. Inferential and Evaluative (13)

READING COMPREHENSION (36)

- 7. Literal (12)
- 8. Inferential (14)
- 9. Evaluative (10)

DEGREES OF READING POWER (56)

WRITING SAMPLE (1)

Holistic scoring is provided for all students. Analytic scoring is provided for students who score at or below the remedial standard of 4 (on a scale of 2-8).

Performance on all nine Language Arts objectives, the Degrees of Reading Power and Writing Sample is reported at the student, classroom, school, district and state levels.



APPENDIX D

Remedial (Grant) Standard-Setting Process

and

Standard-Setting Committees



Remedial (Grant) Standard-Setting Process

Background

There are several acceptable strategies for setting standards on criterion-referenced tests. Each of the proposed methods has one or more unique characteristics. One common element to the various methods is that they all offer to the individuals who are setting the standards some process which reduces the arbitrariness of the resulting standard. Different methods accomplish this in different ways. All methods systematize the standard-setting process so that the result accurately reflects the collective informed judgment of those setting the standard.

Types of Standard-Setting Methods

Standard-setting methods can generally be categorized into three types: test question review, individual performance review and group performance review. Test question review methods specify a procedure for standard setters to examine each test question and make a judgment about that question. For example, standard setters might be asked to rate the difficulty or the importance of each question. These judgments are combined mathematically to produce a standard. Individual performance review methods also require standard setters to make judgments, but the judgments are made on the basis of examining data that indicate how well individual students perform on test items. These data may be based on actual pilot test results or projected results using mathematical theories. In this method, additional student information, such as grades, may also be used to inform the standard setters. Group performance review methods provide for judgments to be made based on the performance of a reference group of students. That is, standard setters review the group performance and make a determination where the standard should be set based on the group results.

Selection of a Standard-Setting Method

Several factors affect the choice of a particular standard-setting method. The type of test is one consideration. For example, some methods are only appropriate for multiple-choice questions or for single correct answer questions while other methods are more flexible. For instance, time constraints are a consideration if student performance data are necessary. In this case, a pilot test must be conducted and the test results must be analyzed prior to setting the standards. Another consideration is the relative importance of the decisions that will be made on the basis of the standard. For example, a classroom test affecting only a few students would not require as stringent a procedure as would a statewide test determining whether a student is allowed to graduate from high school. Other relevant factors include the number of test items, permanence of the standard, purpose of the test and the extent of available financial and other resources to support the standard-setting process.



On February 4, 1985, the Mastery Test Psychometrics Advisory Committee met to consider the issue of standard-setting procedures and voted unanimously to approve the following proposal.

A PROPOSAL FOR SETTING THE REMEDIAL STANDARDS ON THE CONNECTICUT MASTERY TESTS

- 1. Two standard-setting committees will be created: one for mathematics and one for reading and writing.
- 2. This description of a minimally proficient student will be given to each of the committees:

Imagine a student who is just proficient enough in reading, writing and mathematics to successfully participate in his/her regular fourth-grade coursework.

3a. In mathematics, an adaptation of the Angoff procedure will be used. The committee will be provided with each item appearing on one form of the mathematics test. The committee will be given the following directions:

Consider a group of 100 of these students who are just proficient enough to be successful in regular fourth-grade coursework. How many of them would be expected to correctly answer each of the questions?

The committee will rate each item. The committee will then be given the opportunity to discuss their rating of each item. Sample pilot data will be presented. Committee members will be given the opportunity to adjust their item ratings. The item ratings will then be averaged in accordance with the Angoff procedure in order to produce a recommended test standard.

- b. In reading, the committee will review and discuss each passage of the Degrees of Reading Power (DRP) test. Student performance data will be presented. The committee will consider the reading difficulty that should be expected of a student at the grade level being tested. The committee members will identify the passage that has the appropriate level of reading difficulty consistent with the above description of a minimally proficient student.
- c. In writing, the committee will read four sample essays. These essays will have been prescored holistically (on a scale from 2 to 8) in order to rank the quality of the essays. Committee members will classify essays into one of three categories: 1) definitely NOT proficient, 2) borderline and 3) definitely proficient. These classifications will be discussed in light of the holistic scores. The committee will then classify approximately twenty-five additional essays. The essay ratings will be discussed in the same manner as the original four essays. When all essays have been discussed, the essays which fell in the borderline category will be focused upon to determine the standard. The committee will determine where, among the borderline essays, the standard should be established.
- 4. The standards recommended in step 3 will be presented to the Connecticut Student Assessment Advisory Committee (formerly the Mastery Test Implementation Advisory Committee) for discussion and action.

Connecticut's Strategy

Several steps were employed to create an acceptable and valid test standard for Connecticut tests. Initially, a separate standard-setting committee was convened for each test on which standards were to be set. Individuals were chosen to serve as members on the committee on the basis of their familiarity with the area being assessed and the nature of the examinees. One source of such members was the test content committees related to the project. For example, members of the Mathematics Advisory Committee were represented on the committee setting standards for the mathematics mastery test.

The actual procedures used to set standards were an adaptation of a method proposed by William Angoff (1970). This test question review method required members of a standard-setting committee to estimate the probability that a question would be correctly answered by examinees who possess no more than the minimally acceptable knowledge or skill in the areas being assessed. Standard setters then reviewed pilot test data for sample items as further evidence of the appropriateness of the judgments being made. The original probability estimates assigned to each test question were reviewed and adjustments made by the standard setters. The final individual item probabilities were summed to yield a suggested test standard for each member of the committee. The suggested standards were averaged across members of the committee to produce the recommended test standard.

The recommended test standard was presented to the Connecticut Student Assessment Advisory Committee and the State Board of Education.

In mid-March 1985, Mathematics and Language Arts Standard-Setting Committees met to set the remedial standards for the Grade 4 Mastery Test. The following information summarized the results of the standard-setting activities conducted by CSDE staff:

I. Mathematics (100-item test)

Using the procedures previously outlined, the standard setters rated each item and considered the pilot data. Committee members discussed items and were given the opportunity to adjust their initial ratings. The final ratings were averaged to produce a remedial standard. It was recommended that a raw score of 69 be the remedial mathematics standard. Below is a summary of the ratings.

| <u>Procedure</u> | # Judges | Range % | Mean % Correct | Raw Score |
|------------------|----------|-----------|----------------|-----------|
| Angoff | 21 | 56.7-81.3 | 68.7 | 68.7 |

II. Reading (Degrees of Reading Power, 56-item test)

Standard setters used two procedures to establish a remedial reading standard. First, they examined the passages in the Degrees of Reading Power (DRP) test, asking themselves which passage is too difficult for the student who is just proficient enough to successfully participate in fourth-grade coursework. Discussion occurred throughout this selection process.



Second, they examined textbooks which are typically used in grades three and four and selected those textbooks which a minimally proficient student would not be expected to read in order to successfully participate in fourth-grade coursework. Discussion occurred throughout this selection process.

The average readability values of the selected passages and textbooks and the pilot test data were then revealed to the standard setters. The standard setters discussed the readability values and the pilot test data and recommended the DRP unit score of 41 as the remedial standard. This standard was accepted by the State Board of Education at the 70% comprehension level. Below is a summary of the ratings.

| <u>Procedure</u> | # Judges | Readability <u>Range</u> | Recommended Remedial Standard |
|------------------------|----------|-----------------------------|----------------------------------|
| A. Test Passage Review | 17 | 42-48 DRP Units | 41 DRP Units |
| B. Textbook Review | 17 | 42-51 DRP Units | 41 DRP UITES |

III. Writing (45-minute writing sample)

Using the procedure previously outlined, standard setters read and rated 21 essays written to a narrative prompt and 21 essays written to an expository prompt. After discussions and final ratings, the holistic scores for the papers were revealed to the group. The committee then discussed the appropriate remedial writing standard in light of the degree to which their ratings matched the holistic scores. It was the recommendation of the committee that a holistic writing score of 4 be used as the remedial writing standard. Below is a summary of the ratings.

| | | ATIVE PROMPT fter Discussion | · · · · · · · · · · · · · · · · · · · |
|----------|----------------|---------------------------------|---------------------------------------|
| Holistic | Definitely | | Definitely |
| Score | NOT Proficient | <u>Borderline</u> | <u>Proficient</u> |
| 2 | 84% | 4% | 12% |
| 3 | 37 % | 6% | 57 % |
| 4 | 4% | 4% | 92% |
| 5 | 8% | 6% | 86% |
| 6 | 20% | 2% | 78 % |
| 7 | 4% | 0% | 96% |
| 8 | 4% | 2% | 94% |
| | EXPOS | ITORY PROMPT | |

| Holistic | Defini ely | | Definitely |
|----------|----------------|-------------------|-------------------|
| _Score | NOT Proficient | <u>Borderline</u> | <u>Proficient</u> |
| 2 | 94% | 0% | 6% |
| 3 | 33% | 2 % | 65% |
| 4 | 4% | 12% | 84% |
| 5 | 0% | 2% | 98% |
| 6 | 2% | 4% | 94% |
| 7 | 0% | 0% | 100% |
| 8 | 0% | 0% | 100% |



LANGUAGE ARTS STANDARD-SETTING COMMITTEE

Evelyn P. Burnham, Colebrook Public Schools Nicholas P. Criscuolo, New Haven Public Schools Mary R. Fisher, Thompson Public Schools Marguerite Fuller, Bridgeport Public Schools Anne Jackel, Thompson Public Schools Dorothy Kaplan, Middletown Public Schools Robert Kinder, CT State Department of Education Bob Lincoln, Toll and Public Schools Virginia Lity, Bridgeport Public Schools Virginia Manulls, Colebrook Public Schools Noreen McDermott, Hartford Public Schools Elizabeth Nelligan, Canton Public Schools Dorothy Nevers, Canton Public Schools Carol D. Parmelee, Middletown Public Schools Beverly R. Peterman, Stamford Public Schools Geraldine Smith, Canton Public Schools Mary Weinland, CT State Department of Education

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APPENDIX E Grade Four Overview of Holistic Scoring

and

Marker Papers for Holistic Scoring



An Overview of Holistic Scoring

Description of the Method

Holistic scoring involves judging a writing sample for its <u>total</u> effect. The scorer makes an overall evaluation taking into account all characteristics which distinguish good writing. No one feature (such as spelling, rhetoric, or organization) should be weighted to the exclusion of all other features. Contributing to the rationale underlying holistic scoring is evidence that:

- o no aspect of writing can be judged independently and result in an overall score of quality;
- o teachers can recognize and concur upon good writing samples; and
- o teachers tend to rank entire pieces of writing in the same way, regardless of the importance they might attach to the particular components of writing.

The scoring scale for holistic scoring is determined by the quality of the specific samples being evaluated. That is, the success of a particular response is determined in relationship to the range of ability reflected in the set of writing samples being assessed.

Preparation for Scoring

Prior to the training/scoring sessions, a committee consisting of Connecticut State Department of Education (CSDE) consultants, representatives of the Language Arts Advisory Committee and other language arts specialists from throughout the state, two chief readers and a project director from Measurement Inc. of Durham, North Carolina and a reading specialist from The Psychological Corporation met and read a substantial number of essays drawn from the total pool of essays to be scored. Approximately 60 essays were selected to serve as "range-finders" or "marker papers" representing the range of achievement demonstrated in the total set of papers. Copies of those range-finders served as training papers during the scoring workshops which followed. Each range-finder paper was assigned a score according to a four-point scale, where I represented a poor paper and 4 represented a superior paper.

Scoring Workshops

During the month of November, several holistic scoring workshops were held in various locations throughout the state. Attendance at the grade four scoring workshops totaled 271 teachers. A chief reader and two assistants were present at every workshop in addition to representatives of the CSDE. Each workshop consisted of a training session and a scoring session.

Training and Qualifying

O All teachers were shown approximately fourteen range-finder papers. The chief reader discussed each paper and explained the reason why each received its score.



- o All teachers were given a six-paper practice set. They scored the papers independently and recorded the scores on their papers. When all teachers were finished, the chief reader discussed each paper and explained why each received its score.
- o All teachers were given a nine-paper training set. They scored the papers independently, based on an overall impression, and recorded their scores on a monitor sheet as well as on their papers. As they finished reading and scoring, they brought the monitor sheet to the team leader who checked the scores. When all teachers were finished and all monitor sheets were checked, the chief reader discussed the nine-paper set.
- o Regardless of whether or not they qualified on the first training set, all teachers were then given another nine-paper training set. They scored the papers and had the monitor sheets checked. Set Two was not discussed, except with non-qualifiers.
- O Teachers were considered qualified if they scored six or more papers correctly on either set. Teachers who met the standard began scoring actual test papers after Set Two.
- o If any teacher did not qualify, they received additional training by one of the team leaders or by the chief reader away from the scoring room. They had two more opportunities to qualify. Any teacher who failed to qualify would have been excused from the project and paid for one day.

The Scoring Session

Once scorers qualified, actual scoring of the writing exercises began according to the steps outlined below:

- Scorers read each paper once carefully but quickly and designated a score. Again, the score reflected the scorer's overall impression of the response as it corresponded with the features of written composition which were internalized during the training process.
- o Each paper was read and scored by a second scorer independently of the first, that is, without seeing the score assigned by the first reader. The chief reader had the responsibility of adjudicating any disagreement of more than one point between the judgments of the first two scorers. In other words, adjacent scores (i.e., awarded scores of 4 and 3, 1 and 2, 2 and 3) were acceptable, but larger discrepancies (i.e., scores of 2 and 1, 3 and 1, 1 and 4) were resolved by the chief reader. In general, with successful training, the occurrence of large score discrepancies is rare.
- O The two scores for each paper were <u>added</u> to produce the final score for each student, resulting in scores between 2 and 8.



Understanding the Holistic Scores

Examples of actual student papers which are representative of the scoring range will assist the reader in understanding the statewide standard set for writing and interpreting the test results. Sample papers representing four different holistic scores are presented on the following pages. Note that the process of summing the scores assigned by the two readers expands the scoring scale to account for "borderline" papers. A paper which receives a 4 from both scorers (for a total score of 8) is likely to be better than a paper to which one reader assigns a 4 and another reader assigns a 3 (for a total score of 7). In addition, it should be emphasized that each of the score points represents a range of student papers—some 4 papers are better than others.

A score of Not Scorable (NS) was assigned to student papers in certain cases. A score of NS indicates that the student's writing skills remain to be assessed. The cases in which a score of NS was assigned were as follows:

- o responses merely repeated the assignment;
- o illegible responses;
- o responses in languages other than English;
- o responses that failed to address the assigned topic in any way; and
- o responses that were too brief to score accurately, but which demonstrated no signs of serious writing problems (for example, a response by a student who wrote the essay first on scratch paper and who failed to get very much of it copied).

Both readers had to agree that a paper deserved a NS before this score was assigned. If the two readers disagreed, the chief reader arbitrated the discrepancy. Papers which were assigned a score of NS were not included in summary reports of test results.

Summary Comments

The fact that standards must be maintained and reinforced throughout a scoring session cannot be overemphasized. Holistic scoring depends for its usefulness on <u>consistency</u> of scoring among all scorers throughout the sessions.



CONNECTICUT MASTERY TEST 1991 Grade Four Writing Assignment

One day you meet a creature from outer space. You are the only one who can see it.

Write a story telling your classmates about your adventure with the creature from outer space.

- Tell what the creature looked like and how it acted.
- Write a story about what happened when you met it.



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This unsuccessful narrative attempts to tell what the creature looked like, how it acted, and what happened when the writer met the creature. The response does have some sequenced events in the third paragraph, but, in order to receive a higher score, the writer needs either to make the description more specific and use it to embellish the storyline, or to present a more sustained narrative sequence. Page 6 S.

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Page 6

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This long response is a minimally successful narrative. Although the response that specific details, many of the details do not clarify the storyline. A better organizational plan, more control of the details, and a more sustained sequence are necessary for a higher soore.

Page 7 Page 7 66

Page 6

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WRITING SAMPLE

CONNECTICUT MASTERY TEST

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This is my family SCORE POLIFIE: 3 my tamen

Page 6

This tightly controlled response has a good narrative sequence but needs more subslitshment of details (like that about the creature's invisibility) for a

Said I laughed. Page 6

these

This successful narrative is vivid with good details that advance the storyline (The bike began to lift into the air; a houndret feet off the ground). Although there is some lack of clarity at the end of the story, it does not detract from the response's overall effectiveness. Nore development

is needed for a higher score.

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This fluent, economical response creates a mood which immediately draws the reader into the story. In addition the storyline is nicely embollished with specific details (A hach on the ship was opening; look in the junkyard; a pice of metal in the shape of a cube; blasted off into the sky).

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APPENDIX F

Grade Four Analytic Rating Guide

and

Marker Papers for Analytic Scoring



Grade Four Analytic Rating Guide

FOCUS: How effectively does the writer unify the paper by a dominant topic?

- 1 = switches and/or drifts frequently from the dominant topic
- 2 = switches and/or drifts somewhat from the dominant topic
- 3 = stays on topic throughout the response

ORGANIZATION: Is there a plan that clearly governs the sequence from the beginning to the end of the response, and is the plan effectively signaled?

- 1 = no discernible plan
- 2 = inferable plan and/or discernible sequence; some signals may be present
- 3 = controlled, logical sequence with a clear plan

SUPPORT/ELABORATION: To what extent is the narrative developed by details that describe and explain the narrative elements (character, action and setting)?

- 1 = vague or sketchy details that add little to the clarity of the response or specific details but too few to be called list-like
- 2 = details that are clear and specific but are list-like, or uneven, or not developed
- 3 = somewhat developed details that enhance the clarity of the response

CONVENTIONS: To what extent does the student use the conventions of standard written English (e.g., sentence formation, spelling, usage, capitalization, punctuation)?

- 1 = many errors
- 2 = some errors
- 3 = few errors



| CONNECTICUT MASTERY TEST WRITING SAMPLE | CONNECTICUT MASTERY TEST |
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APPENDIX G

Sample Grade Four Mastery Test Score Reports

- o Class Diagnostic Report - Mathematics
- o School by Class Report - Mathematics
- District by School ReportMathematics
- o Class Diagnostic Report - Language Arts
- o School by Class Report Language Arts
- o District by School Report - Language Arts
- o Parent/Student Diagnostic Report



| CONNECTICUT MASTERY TESTING PROGRAM | TO CF | CLASS DIAGNOSTIC REPORT | DIA | GNC | STI | 28.0 | PO | 37 | | | | | ĺ | | ĺ | MATHEMATICS | THE PSYCHOLO S PART 1 OF | SICAL CORPORA |
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| : DE: | | | // | // | // | | | // | // | // | // | // | _ | | | GRADE: | ICAL CORPOR | o # |
| TEST DATE: 09/91 | | | | // | / | / | | | | // | | / | / | | | | | |
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| 13. Identify objects/numbers in an array 3 of 4 14. Read and interpret graphs 15. Read and interpret tables 3 of 4 16. Identify number sentences from pictures 3 of 4 17. Identify number sentences from problems 3 of 4 18. Solve story problems using addicated 3 of 4 19. Solve story problems with extra info 3 of 4 19. Solve story problems with extra info 3 of 4 | ्रमाप्तप्यक | W44444 | 4 M 4 M 4 4 4 | имачиим | NWNOAWN | 444444 | 44 W 4 4 4 | **** | 44W4444 | N# N N N N | 44 W 4 W W | · Ming of Hildred M | 4 M 4 4 4 4 4 | **** | 22/81 27/100 26/96 21/78 27/100 26/94 | 84/89 93/99 93/99 75/80 91/97 | 26/961 26/903 26/903 26/903 26/903 |
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| MUMBER/PERCENT OF STUDENTS BELOM REMEDIAL STANDARD** 4/15 | 15 4/16 | 1/5 | 27.10 | | 11/19 | 16/21 |
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| CONNECTICUT MASTERY TESTING PROGRAM | DIST | DISTRICT BY | | SCHOOL REPORT | | Page 1 |
|--|-------------------------|----------------|------------------------------|------------------|---|---|
| GRADE: 04 FORM: D TEST DATE: 09/91 | | | | | MATHEMATICS | MATICS |
| DISTRICT: B DISTRICT DISTRICT CODE: Scores indicate Number/Percent of students mastering each objective | S | SCHOOL A | SCHOOL B | SCHOOL C | | GICAL CORPO |
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| OBJECTIVES | MASTERY | × ** | * | 2/# | | */* |
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| Identify fractional parts Relate mult/division facts to pictures | 44 | 33/89 29/78 | 72/90 58/73 | 74/79 58/62 | | 179/85 |
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| 14. Read and interpret graphs | 3 of 4 | 36/97 | 79/99 | 93/99 | | 208/99 |
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| 17. Identify number sentences from problems | 4 | 37/100 | 76/95 | 91/97 | | 204/97 |
| to: ourse miny problems using starts and 20. Identify problems with extra info 20. Identify readed information in problems | 0 0 0 0 0 0 1 4 4 | 34/92 | 2,43 2,48 3,47 3,47 | 79/84 | | 177/86 |
| MEASUREHENT AND GEOMETRY | ; | | | | | |
| 21. Measure longth/identify units | 4 | 35/95 | 74/93 | 77/82 | | 186/88 |
| | 5 6 | 36/97 | 72/30 | 89/95 | | 197/93 |
| Determine the value of a set of coins Identify shapes/angles/sides | 3 of 4 3 of 4 | 36/97 | 76/95 | 89/95 | | 201/95 |
| AVERAGE NUMBER OF OBJECTIVES HASTERED | MASTERED | 23.1 | 22.2 | 21.8 | | 22.1 |
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| The color | COMMECTICUT MASTERY TESTING PROGRAM | CID | 188 | DIA | SNC | STI | CLASS DIAGNOSTIC REPORT | <u>o</u> | R. | • | | | | | | İ | LANGUAGE AL | ARTS | ICAL CORPORAT |
|--|--|--|--------------------|-----------------|---------------|--------------|-------------------------|----------------|--------------|-----------------|-------------|--------------|------------|---------------|----------|------------|-------------------------|--------------------------------|----------------------------|
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| MASTER M | .:: | | // | // | // | // | | | // | // | // | // | // | | | | | PORM | a |
| ### REFINES NEEDING WASTERY WASTERY WASTERY WASTERY | | | / | // | // | // | / | | | | | | // | / | | | | | |
| ### PRINCE DESCRIPTION FIGURES OF FERENCE STREAM FINALTING FINALTING CORPERING CONTRACTORS AND READING FINALTING CORPERING CORPERING STATES **CONTRACTORS OF THE STATES FINALTING SAPEL **Liferantian and Evaluation** | | / | / | | | / | / | / | // / | | | / | | | | | ñ. | BER / PERCENT | |
| ### ### ### ### ### ### ### ### ### ## | STUDENTS NEEDING FURTHER DIAGNOSIS IN WRITING : | MASTERY | | | | // | // | // | / | | | | | | // | | ON MASTERIA | F STUDENTS IG EACH OBJEC | CTIVE |
| ###################################### | IN KEADING : | CRITERIA # OF ITEMS | | / | / | / | / | | | | / | | / | / | / | | CLASS | SCHOOL | DISTRICT |
| ### Capitalization and Purctuation 1. Cof 12 | COCCOLATES | CORRECT | 4 | 4 | | | | | _ | | | _ | | | _ | _ | 2/* | 2/# | */* |
| 4. Locating Information (schadules, maps, and distinct tables of contents a title page, and distinct tables of contents a title page, and distinct tables of contents a title page, and distinct tables of contents at title page, and distinct tables of the contents and Evaluative 6. Informatial and Evaluative 6. Informatial and Evaluative 9. of 12 12 11 10 7 9 11 10 8 9 11 10 12 12 11 12 10 7 11 11 11 11 11 11 11 11 11 11 11 11 1 | MRITING MECHANICS 1. Capitalization and Punctuation 2. Spalling (words/homonyms/abbreviations) 3. Agreement LOCATING INFORMATION | \$ 6 6 | | | | | 6 14 | 25 25 25 | <u> </u> | | - | | <u> </u> | | | 8 7 9 | 16/59 18/67 23/85 | 49/52 64/68 83/88 | 136/64 160/76 193/91 |
| 5. Lifetral competitions 5. Cof 7 6 6 6 7 10 11 10 7 9 11 10 8 9 11 12 12 11 10 7 9 11 10 8 9 11 12 12 12 11 10 7 9 11 10 8 9 11 10 12 12 12 11 10 7 9 11 10 8 9 11 10 12 12 12 11 10 7 9 11 10 8 9 11 10 12 12 12 11 10 7 9 11 10 8 9 11 10 12 12 12 12 12 12 12 12 12 12 12 12 12 | Locating Information (schedules, maps, table of contents & title page, and dictionary) | of | | | | | 11 | • | 91 | | - OF | | | | | | 22/81 | 87/93 | 199/94 |
| 7. Literal 8. Inferential 9. of 12 12 11 10 6 10 8 11 10 8 9 11 10 10 | LISTENING COMPREHENSION 5. Literal 6. Inferential and Evaluative 7. READING COMPREHENSION | of of | | | | | 10 | ω ω | | | s II | | | _ | | | 23/85 | 68/72 | 162/77 134/64 |
| ###################################### | 7. Literal 8. Inferential 9. Evaluative | o to to | | | | | 122 | ខដ្ | 8 11 8 | | | | | | | 722 | 23/85 18/67 15/56 | 79/84 69/73 65/69 | 185/88 168/80 144/68 |
| ###################################### | | | - | - | | | | | - | \vdash | - | | 1- | | <u> </u> | | AVER OBJEC | AGE NUMBER OF | 0 |
| ##ITING SAMPLE ##Analytic Scores: Focus Organization Conventions State Goal = 7 of 8; Remedial Standard=41 DRP Units) State Goal = 5 of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 cores and only for Iniocates A score Below the Remedial Standard of 8 core Iniocates A score Below the Remedial Standard of 9 cores and only for Iniocates A score Below the Remedial Standard of 8 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score Below the Remedial Standard of 9 core Iniocates A score | IDIAL MARBER OF OBJECTIVES MASTERED | | 2 | _ | | _ | 8 | 8 | 7 | ~ | • | _ | | | _ | 4 | 6.5 | 6.7 | 7.0 |
| ##ITING SAMPLE ##Analytic Scores: Focus ##Analytic Scores: Focus ##Analytic Scores: Focus ##Analytic Scores: Focus Grganization Corventions State Goal = 7 of 8; Remedial Standard = 4 of 8) DEGREES OF READING POWER (DRP)" (State Goal = 50 DRP Units; Remedial Standard=41 DRP Units) ## \$5 \$5 ** \$5 \$5 ** \$5 \$5 ** \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 | HOLISTIC MEASURES OF WRITING AND READING | | | | Ш | Ш | | | \vdash | | | - | _ | <u> </u> | _ | <u> </u> _ | WA ATU | BOVE STATE GO REMEDIAL STAN | ALS DARDS) |
| DEGREES OF READING POWER (DRP)" (State Goal=50 DRP Units) Remedial Standard=41 DRP Units) (State Goal=60 DRP Units) Remedial Standard=41 DRP Units) (State | cores: Focus Organization Support/Elaboration Conventions 7 of 8; Remedial Standard = 4 | (S | N. | · | | | 4 W W W W | 4 M M N N | | m m m ol ol | | | | | | ~ M G G G | (8/30) | (17/18) | 28/13 |
| INDICATES A SCORE AT OR ABOVE THE STATE GOAL INDICATES A SCORE BELOW THE REMEDIAL STANDARD THIS STUDENT MUST RECEIVE FURTHER DIAGNOSIS MANALYTIC SCORES ARE GIVEN ONLY FOR THOSE STUDENTS WHO SCORED AT OR BELOW THE REMEDIAL ASSISTANCE 2 - BORDERLINE PERFORMANCE 3 - SATISFACTORY PERFORMANCE COPY 1 COPY 1 | DEGREES OF READING POWER (DRP)" (State Goml=50 DRP Units) Remedial Standerd=41 | . DRP Units) | | | | ├ ──- | ις 12 | 45 | - | ├─ - | ├ | ₩- | | _ | | | 17/63 (6/22) | 55/59 (15/16) | 141/67 |
| | | MUST RECEIVE FURTHER ED AT OR BELOW THE RI SATISFACTORY PERFOR | R DIAGN EMEDIAL | OSIS . STANE | 1 | | BSENT ND T SCOR | Y SHE | 1 | Copyr of Ed | ight | 19 ton. | 91, A11 | 1990, righ | 198 | 7 by | 1 ~ | out State Der | partment A. |
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| CONNECTICUT MASTERY TESTING PROGRAM | SC | HOOL | BY CL | SCHOOL BY CLASS REPORT | PORT | | | 9 | |
|--|--------------------------------|-------------------------|-------------------------|-------------------------|-----------------------|---|--|--------------------|--|
| GRADE: 04 FORM: D TEST DATE: 09/91 SCHOOL: A | | | | | | | LAN | LANGUAGE ARTS | |
| School come: DISTRICT: B DISTRICT Come: Scores indicate Number/Percent of | | 001 | 005 | 500 | 900 | | _ | OGICAL COF | |
| udents mastering each objective | | | | | | | | SCHOOL | DISTRICT |
| NAMBER OF STUDENTS TESTED | | 27 | 25 | 22 | 20 | | | * | 2112 |
| OBJECTIVES | MASTERY | #/X | */ * | 2/# | 2/* | | | ** | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| MRITING MECHANICS 1. Capitalization and Punctuation 2. Spalling (words/homonyms/abbreviations) 3. Agreement | 9 of 12 7 of 9 | 16/59 | 14/56 | 10/45 | 9/45 | | | 49/52 | 1 2 2 |
| LOCATING INFORMATION 6. LOCATING INFORMATION | õ | 25/85 | 22/88 | 20/91 | 18/90 | | | 83/88 | |
| T. LONG AND | 8 of II | 18/22 | 96/52 | 22/100 | 19/95 | | | 87/93 | 199794 |
| Literal Inferential and Evaluative READING COMPREHENSION | 5 of 7 9 of 13 | 23/85 18/67 | 18/72 | 16/73 | 11/55 | | | 62/66 | 162/77 |
| 7. Literal 8. Inferential 9. Evaluative | 9 of 12 10 of 14 7 of 10 | 23/85 18/67 15/56 | 20/80 20/80 18/72 | 20/91 18/82 17/77 | 16/80 13/65 15/75 | | | 79/84 | 185/88 |
| HOLISTIC HEASURES OF WRITING AND READING | | | | | | | | AV XV# | - £ |
| MRITING SAMPLE* NAMBER/PERCENT PRODUCING MATERIAL THAT IS: | HOLISTIC | "/ * | *//* | × ** | 27. | | | *** | # #// |
| Hell written with developed supportive detail (At or above the state coal) | 7 or 8 | 0/0 | 8/2 | 0/0 | \$ | | | 2/2 | 28/13 |
| Generally well organized with supportive detail Minimally proficient Below the remedial standard | 5 or 6 2 or 3 | 7/26 12/44 8/30 | 6/25 10/42 6/25 | 4/18 17/77 1/5 | 6/30 12/60 2/10 | | | 23/25 51/55 17/18 | 84/40 73/35 25/12 |
| DEGREES OF READING POWER (DRP)** NUMBER/PERCENT OF STUDENTS | DRP UNIT SCORE | % . | :/ : | */% | <i>".</i> | | | ** | - |
| At/above the reading goal for beginning grade 04. Below the reading goal for beginning grade 04 but at or above the remedial standard Raine. The remedial standard | 50+ 41 to | 17/63 | 16/64 | 12/55 | 10/50 6/30 | | | 55/59 | 141/67 50/24 |
| AVERAGE NAMBER OF OBJECTIVES MASTERED IN LANGUAGE ARTS | ARTS | 22/9 | 8/7 | 3/14 | 02/4 | | - | 15/16 | ~ |
| AVERAGE HOLISTIC MRITING SCORE AVERAGE DRP UNIT SCORE | | 53.6 | 52 | 5.2 | 5.5° | | | 6.7 6.1 | 57.0 53.0 |
| Copyright © 1991, 1990, 1987 by the Cornecticut State Department of Education. All rights reserved. Printed in the U.S.A. | ate Departm e U.S.A. | ent | * Start Remo | dial Sta | s 7 for 1 nderd is | State Goal is 7 for Writing. ** S. Remedial Standard is 4 for Writing. R. | State Goal is 50 DRP Units for Reading. Remedial Standard is 41 DRP Units For R | Units for Reading. | ing. |

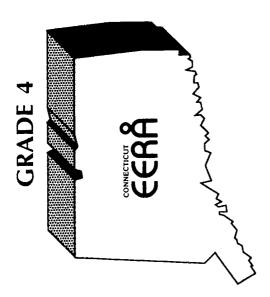
| CONNECTICUT MASTERY TESTING PROGRAM | DISTRICT | ВУ | SCHOOL REPORT | •6•d | 7 |
|---|--|-------------------------|--|--|---|
| GRADE: 04 FORM: D TEST DATE: 09/91 | | | _ | LANGUAGE ARTS | ITS |
| DISTRICT: B DISTRICT DISTRICT CODE: Scores indicate Number/Percent of students mastering each objective | SCHOOL | SCHOOL B | SCHOOL B SCHOOL B | _ | GICAL CORPO |
| NAMBER OF STUDENTS TESTED | 37 | 88 | * | | 211 |
| OBJECTIVES C | MASTERY CRITERIA #/% | <i>"</i> " | 2/# | | */* |
| HRITING HECHANICS 1. Capitalization and Punctuation 2. Spalling (words/homonyms/abbreviations) 3. Agreement LOCATING INFORMATION | 9 of 12 32/86 7 of 9 31/84 11 of 15 35/95 | 55/69 65/81 75/94 | 49/52 64/68 83/88 | | 136/64 160/76 195/91 |
| ition (schedules, maps, is & title page, and | 8 of 11 36/97 | 76/95 | 87/93 | | 199/% |
| aluative | 5 of 7 28/76 9 of 13 26/70 | 66/83 | 68/72 | | 162/77 |
| | 9 of 12 34/92 10 of 14 34/92 7 of 10 27/73 | 72/90 65/81 52/65 | 79/84 69/73 65/69 | | 185/88 168/80 144/68 |
| HOLISTIC MEASURES OF WRITING AND READING | | | | #//# ATS | #/% OF STUDENTS AT STATED LEVEL |
| MRITING SAMPLE* NAMBER/PERCENT PRODUCING MATERIAL THAT IS: | HOLISTIC SCORE #/% | <i>"</i> | 2/* | | */* |
| Mell written with developed supportive detail | 7 or 8 11/30 | 15/19 | 2/2 | | 28/13 |
| apportive detail | 5 or 6 20/54 4 6/16 2 or 3 0/0 | 41/51 16/20 8/10 | 23/25 51/55 17/18 | | 84/40 73/35 25/12 |
| DEGREES OF READING POWER (DRP)** NUMBER/PERCENT OF STUDENTS | DRP UNIT SCORE #/% | <i>"</i> | 2/4 | | 27.8 |
| At/above the reading goal for beginning grade 04 below the reading goal for beginning grade 04 but at one the beginning grade 04 | 50+ 30/81 41 to 49 6/16 | 56/70 | 55/59 24/26 | | 141/67 50/24 |
| | Below 41 1/3 | 4/5 | 15/16 | | 50/9 |
| AVERAGE NAMBER OF OBJECTIVES MASTERED IN LANGUAGE ARTS AVERAGE HOLISTIC MRITING SCORE AVERAGE DRP UNIT SCORE | 7.6 5.7 55.7 | 7.2 5.2 53 | 6.7 4.1 51 | | 7.0 8.4 83 |
| Copyright © 1991, 1990, 1987 by the Cornecticut State De of Education. All rights reserved. Printed in the U.S. | B Department J.S.A. | * Sta | State Goal is 7 for Mriting. *** Remedial Standard is 4 for Writing. | State Goel is 50 DRP Remedial Standard is | Units for Reading. 41 DRP Units For Reading. |
| COPY 01 | | _ | | PROCESS NO. 19150074 | 19150076-3566-011552-3 |

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Connecticut

Mastery Testing Frogram



PARENT / STUDENT DIAGNOSTIC REPORT

Your child's scores on the Connecticut Mastery Test are reported inside.

For a description of the Connecticut Mastery Testing Program, see the back cover of this folder.

For general information about your local district's testing program, please contact your superintendent of schools.

For further information on the Connecticut Mastery Testing Program, contact: Connecticut State Department of Education, Student Assessment and Testing, Box 2219, Hartford, Connecticut 06145, (203) 566-4008.

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PROCESS NO. 19151634-4444-00081-1

| CONNECTICUT MASTERY TESTING PROGRAM | | | |
|--|--|--|----------------|
| GRADE 4 REPORT | | | |
| | STUDEN | STUDENT OBJECTIVES ANALYSIS | YSIS |
| TEACHER: B A GRADE: SCHOOL: A TEST DATE: DISTRICT: B DISTRICT FORM: | 04/91 D | 8 | |
| OBJECTIVES TESTED | | MASTERY CRITERIA | STIIDENT |
| | | NUMBER CORRECT | SCORE |
| CONCEPTUAL UNDERSTANDINGS 1. Identify the number one more, one less, ten more or ten less than a given number 2. Extend patterns involving numbers and attributes 3. Order whole remains | | W W Of 4 | 44 |
| | | м м ч 0 0 0 4 4 4 | 444 |
| Gentify fractional parts of regions and sets from pictures for halves, thirds, fourths, and sixths Relate multiplication and division facts to rectangular arrays | | | r m ri |
| COMPUTATIONAL SKILLS 8. Know eddition and subtraction facts to 18 9. Add and subtract one and two digit numbers without regrouping 10. Add one and digit numbers with regrouping 11. Estimate sums and differences to 100 12. Multiply and divide by 2, 5, and 10 | | ммимм 00000 4444 | ታ ክሪታክ |
| PROBLEM SOLVING AND APPLICATIONS 13. Identify objects or numbers that do or do not belong in a collection, matrix, or array 14. Read and interpret bar graphs and pletographs 15. Read and interpret data from tables and charts 16. Identify or write number sentences from pictures 17. Identify number centences from addition or subtraction 18. Solve simple story problems involving addition or subtraction 18. Solve and identify number centences in simple story problems, involving addition and subtraction, with extransous information 20. Identify needed information in problem situations | h axtramaous information | MWW JWWWW 20000000 4444444 | ቀጠ ቀጠ ጠጠ ቁ ቁ |
| MEASUREMENT AND GEOMETRY 21. Measure largth and identify appropriate units for measuring langth and distance 22. Estimate largths and ereas 23. Tail time to the meanast hour, half hour and quarter hour using enalog and digital clocks 24. Determine the value of a set of coins 25. Identify ehapes, angles and sides | | W W W W W | <i>ਦ</i> ਅਵਾਅਵ |
| This student has attained the state goal in sethematics by mastering 22 of 25 mathematics TOTAL objectives. NUMBE (Real Properties) | TOTAL NAMBER OF OBJECTIVES MASTERED (out of 25) (State Goel is 22 of 25 Objectives Mestered) NUMBER OF ITEMS CORRECT (out of 100) (Remedial Standard is 69 of 100 items correct) | ED (out of 25) = es Mestered) = 11ems correct) | 22 |



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CONNECTICUT MASTERY TESTING PROGRAM

GRADE 4 REPORT

LANGUAGE ARTS



STUDENT OBJECTIVES ANALYSIS

| TEACHER: BA | SBANE: | - <u>-</u> | <u>ş</u> | |
|---|-----------------------------|------------|-------------------------------|---------|
| SCHOOL; A DISTRICT: B DISTRICT | TEST DATE: 09/91 FORM: D | | o ∑ | |
| | | | | |
| OBJECTIVES TESTED | | MA | MASTERY CRITERIA | STUDENT |
| | | ON. | NUMBER CORRECT SCORE | SCORE |
| MRITING MECHANICS 1. Capitalization and Punctuation 2. Spalling (words, homonyms, and abbreviations) 3. Agraemant (varb tense, subject-varb, and pronoun referent) | | | 9 of 12 7 of 9 11 of 15 | 6 2 1 |

LOCATING INFORMATION $\{schedules, maps, table of contents and title page, and dictionally <math>\}$

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LISTENING COMPREHENSION

Literal (understands the meanings of ideas clearly stated by a speaker)Inferential and Evaluative (understands the meanings of ideas not clearly stated, but implied, by a speaker and is able to make critical judgments about them)

READING COMPREHENSION
7. Literal (understands the meanings of ideas clearly stated within a passage)
8. Inferential (understands the meanings of ideas not stated, but implied, within a passage)
9. Evaluative (able to make critical judgments about statements and inferences within a passage)

STUDENT SCORE This student has aconed below the reading goal for beginning fourth graders but above the remedial standard. \$ DEGREES OF READING POWER (DRP) ** (Remedial Standard is 41 DRP Units) (Reading Goal is 50 DRP Units) DRP Units

STUDENT

9

TOTAL NUMBER OF OBJECTIVES MASTERED (out of 9)

625

242

10 of 7

The Course of the art (1941) are ladeniarks emined by Touchstone Applied Science Associates, Inc.

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This student has scored below the remedial standard on the writing test. School district personnel will provide further diagnosis. If necessary, remedial help will be provided. Questions concerning these scores whould be directed to this student's teacher or principal.

Hollstic Writing Score (Remedial Standard is 4 of 8) (Mriting Goel is 7 of 8)

WRITING SAMPLE

thought to the Corver Salas at Visited 201

A CENTRAL STATES

PROCESS ND. 19151634-4444-00082-1



PARENT/STUDENT DIAGNOSTIC REPORT

Dear Parent:

you and the school district's protessional stati how well your child is performing on those skills identified by the State of Connecticut as Inside you will find the results of the Connecticut Mastery. Test administered to your child earlier this fall. The test results help to show important for students entering inurth grade to have mastered.

provide your school with miormation for use in assessing the progress of individual students over time; These tests are designed to determine the specific skill levels of students. The test results will be used to:

provide your school with information based on which improvements in the general instructional program can be made; and provide information on appropriate basic skills remedial assistance for students so indicated. Mastery testing will occur each fall in grades four, sry, and eight for all students and in high school for those students for whom retesting

It you have any questions about these test results, please ask vour child's teachers). The teachers) will share with you other observations and recommendations based on experience in working with your son or daughter during the last several months.

Description of the Test

and rename numbers; compute and estimate sums and differences: read and interpret tables, graphs, and charts; solve a broad range of (2) Computational Skiffs; (3) Problem SolvingApplications; and (4) Measurement. Geometry. Test items evaluate a student's ability to order Mathematics: The mathematics test assesses twenty-five (25) specific objectives in tour general areas of: (1) Conceptual Understandings; problems, measure and estimate length and width, identity shapes, and tell time Language Arts: The language arts test covers two general areas: Reading Eistening Comprehension, and Wirting Focating Information. There are nine (9) objectives and two holistic greasures, one in reading and one in writing,

The content of Reading Ustering Comprehension consists of narrative, expository, and persuasive passages on a variety of topics measuring a Student's reading and listening ability in: (1) Literal Comprehension 2) biterential or Interpretive Comprehension; and (3) Evaluative or Critical Comprehension. Audio tapes are used to assess a student's Insterning comprehension ability. Also used is the "Degrees of Reading Power" (DRP) Test which includes eight (8) passages and fifty six 656 test items. It is designed to measure a student's ability to understand nonfiction English prose on a graduated scale of reading difficulty

The content of Writing Focating Information consists of three components. First writing skills are directly assessed. A student is asked to write on a designated topic. The witting is judged on the student's demonstrated ability to convey information in a coherent and organized tashion. Second, the test assesses the nuclanics of good writing, which are demed as, 410 (apitalization and Punctuation, (2) Spelling (words, homonyms, and abbreviations); and (3) Agreement, Finally the test assesses focating Intormation through the use of schedules, maps, title pages, tables of contents, and dictionaries. This part of the test measures a student's ability to find and use information from





APPENDIX H

Fall 1991 Grade Four

State by District Report:

Mathematics

| | | | | | 67 | 83 | 22 | <u>5 7</u> | 77 | 85 | 89 | 9 0 | 92 | <u> </u> | 92 2 | 0 9 9 | 12: | ¥ Ç | 55 | 7; | 100 | 72 |
|-------------------|-------------------------------------|--|-----------------|--|----------------------------------|---------------------|----------------|-------------------|---|--|------------------------|----------------------------|---|-------------|-----------------|--------------|--|----------------------------|-------------|---|----------------|---------------|
| | | 40/16 | | | 0.91 | 7 | 41 | ~ 13 | ru æ | 4 | e m | 62 6 | 7. | 1 •• | M× | t t | N (| O R | 9 | 0 1 | ٠0 | 9 |
| <u> </u> | | Percent of Students Meeting Students Meeting Students Meeting Students Meeting Students Meeting Students | | | 23.4 | 22.5 | 22.3 | 22.6 | 22.6 21.7 | 22.7 | 22.1 | 17.9 21.3 | 22.6 | 22.3 | 22.5 | 22.2 | 22.4 | 22.2 | 21.2 | 22.4 | 24.7 | 22.4 |
| | TOTAL | Needing Funber of | | | 97 97 97 | 99 99 | 98100 | ٠ - | 96 98 90 98 | 96100 | 4 | 85 97 95 99 | 95 99 | 92100 | 96100 | | 93 98 | 76100100100 87 97 92100 | 91100 | 86100100100 | 100100 | 94100 |
| | <u></u> | Average Numbered Average Numbered Objectives Mastered Wentify shapestanglestaides Identify shapestanglestaides determine the value of a set of coid determine the value of coid | ns | CTIVE | 93 93 | 98 06 86 06 | 95 38 | | 86 97 83 92 | 91 82 | | 82 63 | 87 93 | | 87 97 | _ | 87 96 | /6,100. 87, 97 | % 98 | 86100] | 93100100100100 | 83 93 |
| | ENT TRY | dele | _ | GBUE | 25.22 | | 8 | | | 18 | | 2 6 7 8 1 8 | | _ | 88 | | | \$ 8 | | % & | | |
| | MEASUREMENT AND GEOMETRY | tell units length/ar tentity units | | EACH | 96 96 | | 30 35 | | 86 95 80 88 | 36 36 57 57 57 57 57 57 57 57 57 57 57 57 57 | | 5 2 68 77 86 | 28 28 28 28 28 28 28 28 28 28 28 28 28 28 | | \$ | | | 8 8 8 8 | 88 93 | 36100 | 00100 | 85 93 |
| | MEAS AND G | | o <i>1</i> 0 | ERING | 00 97100 95 95 84 | | 96 26 | | 89 95 89 95 | 97 95 | | 93 93 | * * * | | % % | | | 90T00T00 85 % 91 | 93 | 95 86 | 01001 | % % |
| | | identify problems using add | 5 | MAST | 971 82 | 86 | 801 | 8 | | \$ 8 | 8 8 8 | 45 | 88 8 | 7 | 86 9 | | 8 8 | | \$ | 8 8 | 10010 | 80 |
| | VING | SOLVE SOUTH SOLVEN | | SCORES INDICATE THE PERCENT OF STUDENTS MASTERING EACH OBJECTIVE | 97100 | 66 66 | 3 & 3 & | | | 95 97 | | 75 65 97 93 | 88 | | 99 97 | _ | 96 38 96 128 128 128 128 128 128 128 128 128 128 | 8 3 8 | 56 66 | 1001001001 91 99 99 | (<u>0</u> | 8 28 |
| TED | M SOL | identify # sentent lables | _ | STUD | 228 | | \$ \$ | | _ | 8 % | | | £ 6 | _ | <u> </u> | | | | | | | 8 |
| OBJECTIVES TESTED | PROBLEM SOLVING AND APPLICATIONS | Parolet 9 In array | | NT O | 83 77 74 88 74 88 | | 51 80 64 74 | | | 73 97 3 9 79 | - | | 83 83 69 83 | | 69 84 78 84 | | 59 86 E0 92 | | 53 67 | 29 62 78 82 | | 23 |
| ECTIVI | P.A | read and interinumbers in 10 identify objects/numbers in 10 identify and divide by 2, 5, 10 multiply and divide by 2, 6, 10 multiply and divide on cand | | PERCE | 00100100 96 99 92 00100 93 | | 3 % | | 32 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | \$ \$ \$ \$ | 96 66 | | 88 88 | 100100100 | 97 97 95100 | 90 93 | 8 K 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 8 8 8 8 8 8 | | 2 2 2 2 3 2 3 2 | ~ | 웅 왕 |
| OBU | | . 11110. | | 11111111111111111111111111111111111111 | ι | 8 | 001 | 35 | 6 % | 2 % | 8 8 | 92 | 99 | 1001 | 66 | 196 | 8 8 | ₹ \$ | | 8 27 | | % |
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CONNECTICUT MASTERY TESTING PROGRAM

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CONNECTICUT MASTERY TESTING PROGRAM

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| CONNECTICUT MASTERY TESTING PROGRAM | |
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| | relate municipal identity fractional identity fractional rewrite #'s using a rewrite #'s using order whose number order whose number extend partems extend partems 1 & 10 determine 1 & 10 | addisubtract facts addisubtract facts | identify objects hu | solve story proving the nity # sentence identity # sentence identi | tell time estimate length/are measure length/are | Percent of State Go. Meeting State Go. Meeting Further D. Needing Furt | Percent of Students Meeting State Gos Meeting State Gos | |
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| CONNECTICUT MASTERY TESTING PROGRAM |

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| | MEASUREMEN AND GEOMETE | determine length/area estimate length/area estimate length/area measure length/area with extra in identify needed into in problems | 19 101 | AASTERING EACH OB | 85 95 95 80 97 82 96 96 87 94 86 97 96 87 95 | 85 95 91 89 92 68 90 85 66 76 | 100 % 92 % % 89 82 93 | 94 88 78 87 96 95 89 92 | 89 96 96 82 89 85 97 96 83 94 | 89 97 96 89 95 78 96 94 81 90 | 86 96 97 89 93 | 84 96 94 82 93 | 80 95 95 82 91 | 87 97 88 87 93 | 86 % 95 85 96 75 % 84 80 % | 85 94 94 85 92 | 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 91 99 98 91 98 | 16 06 |
| OBJECTIVES TESTED | SLEM SOLVING APPLICATIONS | solve story produces from pictures identify * sentences tables read and interpret graphs | | ENT OF STUDENTS! | 5 62 81 93 99 96 7 73 88 92 99 97 7 73 90 94 96 97 | 59 79 93 39 69 76 | 65 73 96 98 78 82 93 94 | 46 78 89 75 79 8 | 57 81 92 97 50 80 82 95 | 5 64 86 90 98 99 4 65 77 88 98 93 | 62 92 93 97 83 83 671001 | 52 82 93 | 63 80 | 63 84 85 97 | 71 88 % 99 | 72 82 90 97 | | 7 73 96 97 99 99 6 72 86 91 98 99 | _ |
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| | CONCEPTUAL | extend patterns 10 more less | 09/91 | NUMBER O TESTED C | | 148 5 | | | 79 4 | _ | _ | 267 3 | | | 253 2 | | 120 5 | | |
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| OBU | F | read and inferrombers in the read and inferrombers in the read and divide by 2, 5, 10 Identity objects numbers in 10 Identity objects numbers number | ТНЕ | | _ |
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| | <u>8</u> | addisus width later to | SORE | 98 97 78 88 97 98 98 98 98 98 98 98 98 98 98 98 98 98 | |
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| | CONCEPTUAL UNDERSTANDINGS | identify fractional parts identify fractional parts identify fractional parts rewrite numbers by regrouping rewrite #'s using expanded notation rewrite #'s using expanded notation | | 870088888888888888888888888888888888888 | 4 |
| | CONCEPTUAL | rewrite #'s using | FOO □ R O | | 7 |
| | NOON | rewrite #'s using order whose numbers than number determine 1 & 10 moreless than number determine 1 & 10 moreless than number | NUMBER | 60 199 145 244 338 137 177 177 177 177 119 119 1149 1149 1149 | |
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| | | Percent of Students Percent of State Goa | | | | | 31 31 | 9 | | | _ | 29 E8 | 2 | 12 2 | 7 68 | 69 9 | 15 56 | 33 28 | 12 62 |
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| | MEASUREMENT | identify state value determine the value tell time estimate length/den measure length/den identify needed info i identify needed info indentify needed indentify neede | n problems n problems with extra info |))) | STUDENTS MASTERING EACH OBJECTIVE | 61 87 83 EE 70 FA | 63 95 96 96 93 | 28 97 19 87 87 | 85 96 94 86 92 | 86 96 94 87 94 83 | 83 95 91 83 91 82 | 96 69 96 | 86 96 95 87 94 85 87 | 85 96 94 85 93 84 87 | 82 95 93 83 91 62 84 | 95 93 | 92 89 73 84 | 59 86 82 52 68 59 60 | 79 93 91 78 87 78 80 |
| OBJECTIVES TESTED | L PROBLEM SOLVING AND APPLICATIONS | identify # sentences for identify # sentences for identify # sentences for identify # sentences for identify and interpret gradient gradient interpret gradient interpret gradient interpret gradient g | nom picturally phs phs array 2, 5, 10 pherences | | PERCENT OF | 5 94 86 33 66 74 89 79 | 97 93 68 86 92 97 | 96 92 61 81 88 96 | 97 % 66 84 92 97 | 7 97 93 64 82 91 97 97 | 96 92 62 80 89 95 | 96 95 73 92 94 97 97 | 1 97 95 69 87 92 97 97 | 97 94 64 83 91 97 97 | 96 92 63 82 90 96 | 97 93 65 83 90 97 96 | 95 90 55 76 85 94 90 | 87 88 27 63 26 88 78 | 26 56 28 08 69 78 ox |
| | COMPUTATIONA | add with regrouping add with regrouping without re addisubtract facts to 1 addisubtract facts to 1 | pictures | | SCORES INDICATE THE | 64 87 25 68 55 95 | 86 92 68 89 96 06 | 84 95 50 85 72 97 | 90 97 58 88 77 98 | 90 98 60 88 74 97 | 87 97 56 87 74 97 | 93 96 69 90 82 | 91 96 64 89 78 98 | 97 54 88 75 | 88 75 | ۰ ۵ | 87 23 66 54 | £ 5 | |
| | CONCEPTUAL UNDERSTANDINGS | rewrite #'s using exprending whole numbers order whole numbers extend patterns extend patterns | less than num | F | NUMBER T E TESTED C G | 6482 83 56 | 7355 97 86 | 8252 94 78 | 6840 97 85 | 3904 97 85 | 2750 96 82 | | | 8 8 | 28 & 28 & 28 & 28 & 28 & 28 & 28 & 28 & | 3 2 26 | 81 53 | | |
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CONNECTICUT MASTERY TESTING PHOGRAM

APPENDIX I

Fall 1991 Grade Four

State by District Report:

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CONNECTICUT MASTERY TESTING PROGRAM

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| L | | o% of Studen Average Holistic Score 8 7 6 | u. | | | 2 7 27 27 17 18 2 5. 2 5 12 23 32 12 14 5. 11 19 28 24 11 6 2 4. 11 19 28 24 11 6 2 4. 11 9 33 34 16 7 1 4. 2 6 30 24 25 12 1 5. 2 6 30 24 25 12 1 5. 2 15 29 24 26 1 2 5. 2 6 15 29 29 6 5. 2 6 15 29 29 15 6 5. 3 6 17 31 31 34 5. 6 5 34 19 13 3 5. 1 6 17 21 30 21 3 5. 6 5 34 12 5 25 2 7 4 5. 1 7 3 3 4 5. |
| | | Average DRP Score So+ (% Meeting State God | all Diagnosis) | | | 32 74 7.5 116 17 65 53 36 62 6.6 28 24 48 47 50 43 6.2 21 28 52 49 70 43 6.2 21 28 52 49 70 55 6.2 21 28 52 49 70 55 6.2 21 28 52 49 71 66 6.8 17 26 58 71 66 7.3 9 15 76 54 76 67 7.2 13 85 65 76 66 7.2 11 18 72 54 76 66 7.3 16 18 66 77 66 7.3 16 18 66 77 66 7.3 16 18 66 77 77 6 19 76 56 76 6.8 17 20 63 52 76 6.8 17 20 63 52 76 6.8 17 20 63 52 76 6.8 17 20 63 52 76 6.8 17 20 63 52 |
| | REAL POWER | Average Number of Object | ther Mastered | 7/10 | | 73 6.8 62 6.6 63 6.2 66 6.8 66 6.8 67 7.3 66 7.3 71 7.7 72 7.3 66 7.3 67 |
| TOTAL | LANGUAGE ARTS | | | 10/14 | DENTS | |
| | READING COMPREHENSION | evaluative | | 13 9/12 | THE PERCENT OF STUDENTS SEACH OBJECTIVE | 65 |
| | REA | interential and evaluative | | 5/7 9/1 | rHE PERCE EACH OBJ | 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| ES TESTED | LISTENING COMPREHENSION | l al | | 8/11 | | 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| OBJECTIVES TESTE | LOCATING LIS INFORMATION COMP | schedules, maps schedules, maps table of contents dictionary | | 7/9 11/15 | SCORES REPRESENT MASTERIN | 558 90 65 91 65 95 95 95 95 95 95 95 95 95 95 95 95 95 |
| | | agreement delhomonyn | _{nslabbreviations)} | 9/12 7 | | 41004001040000000000000000000000000000 |
| | WRITING | spelling (words | | ERIA SER POSSIBLE) | NUMBER OF TESTED C G | 1900 1900 1900 1900 1900 1900 1900 1900 |
| | | ANGILAGE AR | 4 % | MASTERY CRITERIA (NUMBER CORRECT/NUMBER POSSIBLE) | DISTRICT | MILLINGTON MILLION MILLON MINCHESTER MINDHAM MINDSOR LOCKS MINDSOR LOCKS MINDSOR LOCKS MINDSOR LOCKS MINDSOR LOCKS MOODBRIOGE MOODBR |



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| | | ata Goal | | - | 22 7 | 91 8 | 10 14 | 91 8 | 9 | 11 13 | 4 23 | 6 20 | 8 16 | 9 14 | 8 13 | 13 11 | 24 6 | 11 14 | |
|-------------------|--|--|----------------------------------|---------------------------------|-------|-------|--------------|--------------|-------|--------|------------|-------|-------|-------|-------|-------|-----------------|-------------|----------|
| | | % of Students Needing Further Diagnosis | , | | 4.4 | 5.1 | 5.0 1 | 5.1 | 5.2 | 5.0 | | 5.3 | 5.1 | 5.1 | 5.0 | 8.9 | 4.3 | 6.9 | 15 |
| | | | | | 2 | щ | • | iū | Щ | 4 | • | • | 4 | 4 | м | M | 84 | 4 | |
| | | % of Student | | | 13 5 | 22 12 | 20 10 | 22 12 | 22 12 | 21 9 | PI 72 | 23 14 | 22 11 | 22 10 | 21 10 | 18 8 | 12 4 | 20 10 | |
| | AMPLE | 8 | | | 38 20 | 29 24 | 31 25 | 28 26 | 27 27 | 31 25 | 22 24 | 26 25 | 29 26 | 29 26 | 31 26 | 34 24 | 39 19 | 31 24 | |
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| | | 3 | | | 23 | 9 | 52 | 65 | 99 | 22 | * | 3 | 3 | 29 | 23 | 43 | 19 | 2 | |
| _ | | 2 Average DRP Score Average DRP State Goal) | | | 51 25 | 17 23 | 24 24 | 14 21 | 13 21 | 21 24 | 8 18 | 13 19 | 12 22 | 18 24 | 17 25 | 31 26 | 56 25 | 24 23 | |
| GREES OF | NG DRF | 50+ (% Mis | + | | 4.3 | 8.9 | 6.3 | 7.1 | 7.1 | 9.9 | 7.5 | 7.3 | 7.1 | 6.7 | 8.9 | 5.7 | 6.0 | 6.3 | - |
| 1 | | Below 41 (% Needing Fundamental Below 41 (% Needing Fundamenta | 2/10 | | 33 | 63 | 22 | 29 | 69 | 19 | 75 | 8 | \$ | 63 | \$ | 2 | 30 | 2.5 | |
| TOTAL | ₹` | | 10/14 | STS | 3 | 74 | 65 | 82 | 22 | 20 | 83 | 80 | 22 | 11 | 72 | 59 | 36 | 99 | |
| | | _{evaluative} | 9/12 1 | STUDENTS | 45 | 82 | 72 | 82 | 82 | 77 | 28 | * | 93 | 82 | 11 | \$ | 41 | 72 | |
| | READING COMPREHENSION | interential | 9/13 | HE PERCENT OF (| 53 | 62 | 26 | 29 | | 62 | 22 | 2 | 29 | 62 | 62 | 64 | 56 | 57 | |
| | COMF | literal and evaluative interential and evaluative | 5/7 | | 45 | 22 | 3 | 92 | 77 | 72 | 81 | 78 | 92 | r | 72 | 3 | 39 | 6 7 | |
| OBJECTIVES TESTED | LOCATING LISTENING INFORMATION COMPREHENSION | | 8/11 | SCORES REPRESENT T MASTERING | 89 | 95 | 8 | * | * | 16 | 8 | 95 | * | 92 | 8 | 83 | 99 | 87 | |
| ECTIVE | COMPF | literal schedules, maps schedules maps table of contents table of contents | 11/15 | ES REP | 19 | ŝ | \$ | 4 | 16 | * | 86 | 26 | 7 | 2 | 8 | 82 | 57 | 2 | 1 |
| OBJ | LOCATING | sche of communication and dictionary | 1 | SCORI | 59 | 73 | 20 | 92 | 75 | 89 | 980 | 92 | 92 | 72 | 74 | 65 | 83 | 20 | |
| | SS CS | agreement agreement spelling (words/homonyms/abbreviations) | 9/12 | | \$ | 11 | 2 | 79 | 28 | 72 | 2 | 18 | 82 | * | * | \$ | 45 | 2 | |
| | WRITING MECHANICS | spelling (Word | SIBLE) | FOC m E O | | | | | | | | | | 10 | | | | | - |
| | ME | capitalization and | reria Iber Pos | TESTED | 6471 | 7333 | 8229 | 6822 | 3898 | 2736 | 2049 | 5936 | 3931 | 5365 | 4204 | 8631 | 4673 | 35489 | |
| | | LANGUAGE ART GRADE 4 | (NUMBER CORRECT/NUMBER POSSIBLE) | DISTRICT | TAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | TOTAL | STATE TOTAL | |
| | | LAN | (NUMBER | | 100 | T0C 2 | T0C 3 | T0C 4 | TOC 5 | T0C 6 | ERG 1 | ERG 2 | ERG 3 | ERG 4 | ERG 5 | ZRG 6 | ERG 7 | STATE | |

$\label{eq:APPENDIX} \mbox{\ensuremath{\mathtt{APPENDIX}}} \mbox{\ensuremath{\mathtt{J}}}$ $\mbox{\ensuremath{\mathtt{Type}} \mbox{\ensuremath{\mathtt{of}}} \mbox{\ensuremath{\mathtt{Community}}} \mbox{\ensuremath{\mathtt{Classifications}}}$

Type of Community

- TOC 1 = LARGE CITY a town with a population of more than 100,000.
- TOC 2 = FRINGE CITY a town contiguous with a large city and with a population over 10,000.
- TOC 3 = MEDIUM CITY a town with a population between 25,000 and 100,000 and not a Fringe City.
- TOC 4 = SMALL TOWN (Suburban) a town within an SMSA* with a population of less than 25,000, not a Fringe City.
- TOC 5 = SMALL TOWN (Emerging Suburban) a town with a population of less than 25,000 included in what was a proposed 1980 SMSA but not included in a 1970 SMSA.
- TOC 6 = SMALL TOWN (Rural) a town not included in an SMSA, with a population of less than 25,000.

*Standard Metropolitan Statistical Area



APPENDIX K Education Reference Group Descriptions



Education Reference Group Descriptions

The education reference groups were formed from an analysis of districts' median family income, a percentage of high school graduates, a percentage of those in managerial/professional occupations, a percentage of single-parent families, a percentage of those below poverty and a percentage of non-English home language from the 1980 census. The groups have not been named, but have been labeled I through VII. Note, however, that the groups run from extremely affluent suburban communities (I) to our three largest cities of Hartford, Bridgeport and New Haven (VII). Some differ widely with respect to all of the family background variables; others differ slightly with respect to one or two. In addition to the six variables used to classify districts, the group descriptions below also include superintendents' comments that were provided in a Department survey in 1988.

Group I. These 13 districts were wealthy, professional suburbs. The median family income in 1979 averaged \$40,425. Residents were extremely well educated. Nearly 90% had at least a high school diploma, 42% had a bachelor's degree and 49% had a managerial or professional job. There were relatively few children with educational disadvantages here. Only 7% of the families were single-parent, about 8% spoke a language other than English at home and almost no one (2%) lived in poverty. Superintendents within these towns used the adjectives "suburban," "affluent," "growing" and "bedroom community" to describe them.

Group II. Residents in the 29 districts of Group II were affluent, well-educated professionals, but to a lesser extent than residents of Group I. The median family income averaged \$28,113, more than 83% of the residents had high school diplomas, 29% had a college degree and 36% had a managerial or professional job. Like Group I, this group had a low percentage of people who spoke another language at home (8%), almost no one in poverty (2%) and relatively few single-parent families (9%). Like the superintendents in Group I, superintendents from these towns described their communities as "affluent," "bedroom communities," "growing" and "suburban."

Group III. These 34 districts were mostly rural bedroom communities. Like Groups I and II, these towns did not have many disadvantaged children. There were only 7% who spoke a language other than English at home, only 7% who were from single-parent families and only 3% who were poor. Adults were slightly less affluent (median family income of \$24,431), less likely to have a high school diploma (77%) and less likely to have a managerial or professional job (28%) than people in Group II. Like the previous two groups, these towns were described by superintendents as "suburban," "growing" and "bedroom communities." Several superintendents used "rural" and "middle class" (as well as "affluent") to describe their communities.



Group IV. This group of 37 districts was probably the most diverse set of towns, containing a number of coastal and resort communities, as well as rural and suburban areas. Group IV was similiar to Group III in median family income (\$22,609), percentage of high school graduates (77%), percentage of managers/professionals (29%) and percentage of non-English home language (7%), but had a significantly higher percentage of single-parent families (12% versus 7%) and a slightly higher percentage of families below poverty (5% versus 3%). Superintendents' descriptions reflect this group's diversity. They describe their towns as "bedroom," "growing," "rural," "suburban," "middle income" and "affluent."

Group V. These 30 districts made up the first group of working class/blue collar communities. This group had a significantly lower percentage of high school graduates (68%) and percentage of managers/professionals (19%) than Group IV. Other characteristics were similar to Group IV: the average income was \$21,920, there were 11% single-parent families, 5% below poverty and 9% of the population spoke a language other than English at home.

Group VI. This group of 23 districts included the state's medium-sized cities, the larger cities of Stamford and Waterbury, several former mill towns and some densely populated blue collar suburbs. Group VI had similar socioeconomic characteristics as Group V, but significantly greater proportions of single-parent families and families in which English was not the primary home language. The median family income of \$20,325 was below the state average. An average of 16% of the residents spoke another language at home and 17% of the families were headed by single parents. Only 63% of the residents had high school diplomas, and 6% lived below poverty level.

Group VII. Hartford, Bridgeport and New Haven were vastly different from other communities in Connecticut. An average of 28% of the families spoke a language other than English, 46% were headed by single parents, 20% lived in poverty and the median family income was \$15,240.



APPENDIX L Student Participation Rates



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| PARTICIPATION RATES FOR FOURTH-GRADE STUDENTS BY DISTRICT | |
|---|---------------|
| DE STUDENTS 8 | -1992 |
| OR FOURTH-GRA | 00L YEAR 1991 |
| FION RATES FO | SCHO |
| PARTICIPA | |

| 99.5.5 99.4.4.000 99.4.4.000 99.5.5.99 98.6.5.99 98.6.5.99 98.7.99 98.7.99 98.99 | DISTRICT | FOURTH-GRADE POPULATION | SIUDENIS ELIGIBLE FOR TESTING | PERCENT OF STUDENT POP EXEMPT FROM TESTING | PERCENT | OF ELIGIBLE | STUDENTS TESTED | red READING |
|--|--|----------------------------|-------------------------------------|--|-------------|------------------------------|-----------------|----------------------|
| 1 | ANDOVER | O.E. | c | ¢ | • | | | |
| 252 253 254 255 255 257 258 258 258 258 258 258 258 258 258 258 | ANSONIA | 182 | 25.5 | | 100.0 | 100.0 | 100.0 | 100.0 |
| 1,5 | ASHFORD | 54 | - 4 | · • | 7.00 | 97.5 | 97.5 | 98.1 |
| 252 253 264 264 265 265 267 267 279 279 279 279 279 279 279 279 279 27 | AVON | 156 | 155 | | 0.00 | 0.00. | 0.001 | 100.0 |
| 25 | BARKHAMSTED | 52 | 52 | 0 | 2.00 | 0.00 | 7.00 | 100.0 |
| 1 | BERLIN | 225 | 211 | 2.9 | - 0 | - 000 | 2.0 | - 86. |
| 1 | BETHANY | 179 | 63 | 19 | | 0.00 | 0.00 | 100.0 |
| 7.6 100.0 99.7 7.7 99.5 99.5 99.5 99.5 99.5 99.5 | BETHEL S. C. S. | 281 | 278 | | 9.0 | 9.00 | 0.00 | 0.00 |
| 79 79< | BLOOMF I ELD | 198 | 183 | 9.7 | | 200 | 0 0 | 9.6 |
| 1,715 1,583 1,284 1,09 1,00 1,00 1,00 1,00 1,00 1,00 1,00 | BOLTON | 62 | 62 | | | 0.00 | 7.0 | 99 90 91 91 |
| 1,712 | BOZRAH | 37 | 33 | . O. | | - 0 | 0.76 | 57.5 |
| 1,575 1,583 1,77 1,99 1,99 1,99 1,99 1,99 1,99 1,99 | BRANFORD | 238 | 100 | | 0.00 | y. 60 | 93.9 | 6.06 |
| 654 654 655 655 655 655 655 655 655 655 | BRIDGEPORT | 1,715 | 1,583 | | 200 | 01 | 7.86 | 98.7 |
| 199 | BRISTOL | 459 | 089 | - 6 | 1.66 | 7.86 | 95.5 | 98.5 |
| 101 | BROOKF1ELD | 198 | 101 | | 1.66 | 7.66 | 98.9 | 0.66 |
| 95 96 97 98< | BROOKLYN | 101 | 7,0 | | 0.001 | 100.0 | 7.96 | 99.5 |
| 93 96 97 97 97 97 97 97 97 97 97 97 98 <td< td=""><td>CANAAN</td><td>¥ -</td><td>7 4</td><td>V</td><td>0.00</td><td>9.46</td><td>93.5</td><td>92.5</td></td<> | CANAAN | ¥ - | 7 4 | V | 0.00 | 9.46 | 93.5 | 92.5 |
| 95 95 96 98.9 375 370 100.0 100.0 100.0 42 42 42 42 42 42 184 42 42 67 67 100.0 | CANTERBURY |) (| + c | (7.7) (3.5) | 92.9 | 100.0 | 92.9 | 100.0 |
| 28 28 13 100.0 <td>CANTON</td> <td>000</td> <td>200</td> <td>3.2</td> <td>0.001</td> <td>98.9</td> <td>98.9</td> <td>97.8</td> | CANTON | 000 | 200 | 3.2 | 0.001 | 98.9 | 98.9 | 97.8 |
| 42 47 1.0 100.0 99.5 99. | CHAPLIN | n a | λ. (| 0. | 100.0 | 100.0 | 100.0 | 100.0 |
| 13.5 17.3 100.0 1 | CKENHIPE | 07.6 | 28 | 0. | 100.0 | 100.0 | 100.0 | 100.0 |
| 184 | CHESTER | 3/3 | 370 | 1.3 | 100.0 | 99.5 | 6.86 | 7.66 |
| 188 180 4.3 100.0 10 | 2012 | 74 | 42 | ٥. | 100.0 | 100.0 | 92.9 | 100 |
| 21 27 6.8 100.0 </td <td></td> <td>997</td> <td>180</td> <td>£.4</td> <td>100.0</td> <td>100.0</td> <td>100.0</td> <td>1001</td> | | 997 | 180 | £.4 | 100.0 | 100.0 | 100.0 | 1001 |
| 72 67 6.9 100.0 </td <td>COLCUESIEN</td> <td>19</td> <td>150</td> <td>8.9</td> <td>100.0</td> <td>100.0</td> <td>100.0</td> <td>100</td> | COLCUESIEN | 19 | 150 | 8.9 | 100.0 | 100.0 | 100.0 | 100 |
| 12 | COLLEGEOR | 17 | 7, | 0. | 100.0 | 100.0 | 100.0 | 100 |
| 130 124 136 137 138 139 139 139 139 139 139 139 139 139 139 | COBRES | 7 1 | 19 | 6.9 | 100.0 | 100.0 | 98.5 | 100.0 |
| 150 154 4.6 98.4 98.4 97.5 150 152 2.5 99.4 100.0 150 152 3.6 100.0 100.0 151 152 2.5 3.8 96.0 100.0 152 153 3.8 96.0 100.0 153 3.8 96.0 100.0 154 157 3.1 100.0 100.0 155 157 3.1 100.0 100.0 157 158 98.7 98.7 158 159 100.0 98.7 159 151 151 152 100.0 150 151 152 100.0 151 152 100.0 100.0 152 153 158 100.0 153 154 157 158 154 157 158 100.0 155 156 100.0 100.0 155 157 100.0 100.0 155 157 100.0 100.0 155 157 100.0 100.0 155 155 100.0 100.0 155 155 100.0 100.0 155 155 100.0 155 155 100.0 155 155 100.0 155 155 155 100.0 155 155 155 100.0 155 155 155 100.0 155 155 155 100.0 155 155 155 155 155 155 155 155 155 155 155 155 155 15 | COVENTRY | /- F | 5.5 | 11.8 | 100.0 | 93.3 | 93.3 | 93.3 |
| 707 707 707 707 707 707 707 707 707 707 | CROMMET | 130 | #ZL | 9.4 | 4.86 | 98.4 | 97.6 | 95.2 |
| 236 229 3.0 100.0 | DAMRIEY | 86 E | 201 | 2.5 | 4.66 | 100.0 | 100.0 | 100.0 |
| 25 | DARIEN | 236 | 979 | 10.6 | 7.66 | 99.2 | 98.1 | 98.9 |
| 26 25 12.4 100.0 1 | DEFP RIVER | 007 | 677 | 3.0 | 100.0 | 100.0 | 100.0 | 99.1 |
| 26 25 3.4 100.0 100.0 106 105 3.8 96.0 100.0 100.0 162 157 3.1 100.0 100.0 100.0 162 157 3.1 100.0 100.0 100.0 163 177 1.1 98.7 98.7 97.7 179 177 1.1 98.7 98.7 97.7 179 177 1.1 99.4 99.4 99.7 114 112 1.2 100.0 100.0 98.7 114 115 6.2 98.7 99.4 99.4 114 151 6.2 98.7 99.4 99.4 114 151 6.2 98.7 99.4 99.4 115 1.2 100.0 100.0 98.7 98.7 115 1.2 100.0 100.0 100.0 115 1.2 100.0 100.0 99.5 118 100.0 100.0 100.0 100.0 118 100.0 100.0 100.0 100.0 118 100.0 100.0 100.0 100.0 118 100.0 100.0 100. | DERBY | 2 6 | D u | 0. | 100.0 | 100.0 | 100.0 | 100.0 |
| 100 | EASTFORD | 70 | 95 | 12.4 | 100.0 | 100.0 | 100.0 | 100.0 |
| 100.0 | EAST GRANBY | 2 4 | C 2 | *** • | 0.96 | 100.0 | 100.0 | 100.0 |
| 162 157 3.9 100.0 100.0 474 399 15.8 100.0 100.0 100.0 248 233 6.0 98.7 98.7 97.7 177 1.1 99.4 98.7 98.7 199 4 98.7 98.7 98.5 114 112 1.8 100.0 98.5 114 151 6.2 98.7 98.7 98.7 452 3.8 100.0 100.0 99.1 4693 4.5 100.0 100.0 100.0 266 66 66 66 66 66 66 66 98.7 98.5 276 265 4.0 100.0 100.0 276 265 4.0 100.0 100.0 389 382 1.8 100.0 100.0 452 3.2 100.0 100.0 100.0 500 452 96.6 98.5 97.6 536 452 96.6 99.4 98.8 536 514 40.1 100.0 99.4 536 99.4 99.4 99.4 99.4 | | 701 | 2 10 | <u>-</u> | 100.0 | 100.0 | 98.1 | 100.0 |
| 246 39 15.8 98.7 98.7 248 233 6.0 98.7 98.7 179 177 1.1 99.4 100.0 169 67 2.9 100.0 98.7 161 112 1.8 100.0 98.5 161 151 6.2 98.7 98.5 161 151 6.2 98.7 98.5 161 151 6.2 98.7 98.0 162 100.0 100.0 100.0 98.5 276 26 4.0 100.0 100.0 98.5 26 26 4.0 100.0 98.5 98.5 276 26 4.0 100.0 100.0 100.0 125 12 100.0 100.0 100.0 125 12 100.0 100.0 100.0 138 13 4.1 99.6 99.4 136 100.0 99.4 99.4 136 100.0 99.4 99.4 137 100.0 99.4 99.4 138 100.0 100.0 100.0 136 100.0 100.0 100.0 | | 162 | 7 - 7 | ٠. ﴿ | 0.66 | 100.0 | 100.0 | 100.0 |
| 248 233 6.0 98.7 98.7 97.7 1.1 1.1 1.1 1.1 99.4 100.0 98.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 | | 17.7 | 000 | 3.1 | 100.0 | 98.1 | 98.1 | 98.1 |
| 179 177 179 179 177 179 179 177 171 171 177 171 171 171 171 171 173 173 171 173 100.0 100.0 171 173 100.0 100.0 100.0 171 175 100.0 100.0 100.0 172 175 100.0 100.0 100.0 182 100.0 100.0 100.0 100.0 183 100.0 100.0 100.0 100.0 184 185 96.6 98.2 97.6 186 187 98.6 99.4 98.4 186 100.0 100.0 100.0 186 100.0 100.0 100.0 187 96.6 98.9 99.4 188 100.0 99.4 98.8 188 100.0 99.4 98.4 188 100.0 99.4 98.7 188 100.0 99.4 98.4 189 99.4 99.4 98.4 | EAST HAVEN | 846 | N 00 00 | | 98.7 | 98.7 | 7.76 | 7.76 |
| 69 67 69 68 68 69 69 69 69 69 69 69 69 69 69 69 69 69 | EAST LYNE | 179 | 177 |) - | 7.86 | 98.7 | 95.7 | 98.3 |
| 114 112 123 100.0 98.5 98.5 100.0 100.0 98.5 98.5 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.3 100.0 100.0 99.3 100.0 100.0 99.3 100.0 100.0 99.3 100.0 100.0 99.3 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 99.1 100.0 100.0 98.5 97.6 100.0 99.5 97.7 100.0 99.6 99.6 99.6 99.4 98.8 | EASTON | 69 | 7.9 | - 0 | 4.00 | 7.66 | 100.0 | 98.9 |
| 161 151 151 152 100.0 100.0 99.1 161 151 151 152 150.0 150.0 99.1 162 165 165 165 165 165 165 165 165 165 165 | EAST WINDSOR | 41. | 13.5 | 7 - | 100.0 | 98.5 | 98.5 | 98.5 |
| 470 470 452 3.8 100.0 100.0 98.7 98.0 493 465 2.6 100.0 100.0 100.0 98.9 88.9 493 4656 7.5 100.0 100.0 100.0 99.3 26 26 100.0 | ELLINGTON | 161 | 151 | 9 | 0.00 | 100.0 | 99.1 | 100.0 |
| 493 466 493 456 276 265 265 4.0 100.0 100.0 100.0 100.0 100.0 100.0 125 125 138 133 138 100.0 100.0 100.0 100.0 100.0 100.0 100.0 133 3.6 14.1 99.6 99.4 98.2 97.7 99.4 98.4 | ENFIELD | 470 | | | 7.86. | 7.86. | 98.0 | 2.96 |
| 493 456 7.5 100.0 | ESSEX | 99 | 1,4 | , | 100.0 | 0.001 | 6.86 | 100.0 |
| 26 265 4.0 100.0 100.0 99.3 2.0 265 265 265 265 265 265 265 26 265 265 | FAIRFIELD | 1693 | 45.5 | , , , | 0.00 | 100.0 | 100.0 | 100.0 |
| RY 389 26 .0 100.0 | FARMINGTON | 276 | 265 | , d | 0.00 | 0.00 | 8.00 | 0.00 |
| 87 389 382 1.8 100.0 100.0 99.7 121 3.2 100.0 100.0 99.7 138 138 3.6 100.0 98.2 97.6 57.6 57.6 57.6 57.6 99.6 99.4 98.8 | FRANKLIN | 26 | 26 | 0 | 0.00 | 0.00 | y 5 | 286.5 |
| 125 121 3.2 100.0 | GLASTONBURY | 389 | 382 | 80. | 100.0 | 200 | 200 | 900 |
| 500 452 9.6 98.9 98.2 97.6 133 3.6 100.0 98.5 97.6 57.6 97.5 97.7 99.6 99.4 98.8 | GKANBY Orinities | 125 | 121 | 3.2 | 100.0 | 200 | 1001 | |
| 138 133 3.6 100.0 98.5 97.7 57.8 57.8 57.4 98.8 8.8 | GREENWICH | 200 | 452 | 9.6 | 6.86 | 0.00 | 92.0 | 0.00 |
| 536 514 4.1 99.6 99.8 | GROTO | 138 | 133 | 3.6 | 100.0 | 0,00 0,00 1,00 1,00 | 7.70 | 0.10 |
| | 6401040 | 536 | 514 | r. 4 | 9.66 | 7.66 | 8 86 | 100 |
| | | | | | | | | |



| | TOTAL FOURTH-GRADE | STUDENTS | PERCENT OF STUDENT | PERC | OF ELIGIBLE ST | ENTS TE | 03 |
|--------------------|-----------------------|--------------------|--------------------|---------------|----------------|---------|-----------|
| DISTRICT | POPULATION | FOR TESTING | FROM TESTING | ATICS | LANGUAGE ARTS | WRITING | READING |
| HAMDEN | 421 | 407 | er er | 100.0 | 100 | 3 00 | 0 |
| HAMPTON | 24 | 22 | , w | 100.0 | 100.0 | 100.0 | 0.00 |
| HARTFORD | 2, 106 | 1,846 | 12.3 | ħ. 96 | 96.7 | 90.1 | 95.1 |
| HAKILANU | 32 | 32 | 0. | 100.0 | 100.0 | 100.0 | 100.0 |
| KFNT | 136 | 133 | 2.5 | 100.0 | 100.0 | 100.0 | 99.2 |
| KILLINGLY | 230 | 033 | | 0.00 | 0.00 | 93.3 | 100.0 |
| LEBANON | 66 | 68 | 10.1 | - 0 0 0 | 1.66 | 1.66 | 7.86 |
| LEDYARD | 256 | 251 | 5.0 | 100.0 | 0.001 | 90.00 | 0.00 |
| LISBON | 68 | 62 | 8.8 | 100.0 | 8.96 | 8.96 | 93.5 |
| LITCHFIELD | 73 | 72 | 1.4 | 100.0 | 100.0 | 100.0 | 100.0 |
| KADISON | 217 | 211 | 2.8 | 99.5 | 100.0 | 99.1 | 100.0 |
| MANCHESTER | 570 | 548 | 3.9 | 100.0 | 99.1 | 98.2 | 98.9 |
| MARI ROBONGH | 740 | 136 | 2.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| MFRIDEM | C1 3 | 1 7 6 7 | e | 0.001 | 0.001 | 100.0 | 98.6 |
| MIDDLETOWN | 318 | 308 | | 0,00 | 8.00 | 4 - | 8,66 |
| MILFORD | 4. 8.5 5.85 | 1000 | | 0.00 | 0.00 | 7.0 | 0.00 |
| MONROE | 274 | 265 | ່ເພ | 100.0 | 4 70 | 0.70 | 93.4 |
| MONTVILLE | 206 | 204 | 1.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| MAUGATUCK | 417 | 381 | 8.6 | 100.0 | 98.7 | 97.6 | 4.86 |
| MEW BRITAIN | 757 | 670 | 11.5 | 99.3 | 98.5 | 6.46 | 97.6 |
| REW CARAM | 192 | 700 | 4.2 | 98.9 | 4.86 | 4.86 | 98.9 |
| MEN HARTEORD | 12 | 73 | . r. | 0.00 | 0.00 | 0.001 | 100.0 |
| NEW HAVEN | 1.473 | 1,334 | N - 1 | 90.00 | 0.00 | 0.001 | 0.00 |
| NEWINGTON | 287 | 278 | | 100.0 | 100.00 | 9.66 | 1001 |
| NEW LONDON | 259 | 239 | 7.7 | 99.2 | 98.7 | 96.7 | 97.5 |
| NEW MILFORD | 353 | 338 | 4.2 | 100.0 | 100.0 | 4.66 | 99.7 |
| ROBEOLK ROBEOLK | 263 | 254 | at (| 100.0 | 88.8 | 97.2 | 7.86 |
| NORTH BRANEORD | 0-10- | 200 | | 0.00 | 0.001 | 100.0 | 100.0 |
| NORTH CANAAN | 0.4 | 38. | | 70.00 | 0.70 0.40 | 8.76 | 98.0 |
| | 242 | 234 |) eq | 0.00 | + c 00 | 0.70 | * · · · · |
| NORTH STONINGTON | 75 | 72 | 0.4 | 97.2 | 97.2 | 95.8 | 97.2 |
| NORWALK | 757 | 710 | 6.2 | 99.3 | 4.66 | 96.1 | 98.7 |
| NORW!CH | 423 | 393 | 7.1 | 99.2 | 98.5 | 98.2 | 98.0 |
| OLD SAYBROOK | 101 | 100 | 1.0 | 100.0 | 100.0 | 100.0 | 98.0 |
| OXFORD | 136 | 136 | o | 100.0 | 100.0 | 99.3 | 100.0 |
| PLAINFIELD | 200 | 191 | . | 0.00 | 0.00 | 29.5 | 0.001 |
| PLAINVILLE | 173 | 164 | 200 | 100.0 | 0.001 | | y 0 |
| PLYMOUTH | 164 | 150 | . & I v. | 100.0 | 100.0 | 96.9 | 4.00 |
| POMFRET | 64 | 64 | 0. | 100.0 | 100.0 | 100.0 | 100.0 |
| PORTLAND | 120 | 120 | 0. | 100.0 | 100.0 | 99.2 | 100.0 |
| DITENTO | 90, | 56 | 1.5.1 | 98.2 | 98.2 | 98.2 | 98.2 |
| REDDING | 101 | 505 | 70.7 | 0.00 | 97.2 | 96.3 | 97.2 |
| RIDGEFIELD | 263 | 259 | | 100.0 | 100.0 | 0001 | 0.00.0 |
| ROCKY HILL | 151 | 145 | | 100.0 | 100.0 | 100.0 | 100.0 |
| SALEM | 26 | 53 - | 3.00 | 100.0 | 100.0 | 100.0 | 100.00 |
| SCOTLAND | | φ γ α | w.c. | 100.0 | 100.0 | 100.0 | 100.0 |
| SEYMOUR | 176 | 170 |) -1 | 100.0 | 100.0 | 98.8 | 100.0 |
| | | | | | | | |



PARTICIPATION RATES FOR FOURTH-GRADE STUDENTS BY DISTRICT SCHOOL YEAR 1991-1992

| SHARON SHELTON SHERMAN SHASBURY SOMERS SOUTHINGTON | | | | | LANGUAGE ARTS | WRITING | READING |
|---|-------|---------|------|-----------------|---------------|---------|---------|
| SHELTON SHERMAN SIMSBURY SOMERS SOUTHINGTON | , c | | ı | | | | |
| SHERMAN SIMSBURY SOMERS SOUTHINGTON | 365 | 30 | 2.5 | 100.0 | 100.0 | 100.0 | 100.0 |
| SIMSBURY Somers Southington | | 200 | | 4.66 | 99.1 | 98.3 | 4.66 |
| SOMERS Southington | 304 | 020 | | 0.001 | 100.0 | 100.0 | 100.0 |
| SOUTHINGTON | * & F | 067 | | 96.3 | 0.66 | 93.0 | 99.3 |
| | 07.7 | 0 14 | | 1.66 | 100.0 | 97.4 | 99.1 |
| SOUTH WINDSOR | 957 | 0 0 | | 8.66 | 100.0 | 99.1 | 99.66 |
| SPRAGUE | - 4 | 0 ** | | 7.66 | 4. 66 | 6.86 | 4.66 |
| STAFFORD | 7.71 | 200 | | 100.0 | 97.0 | 93.9 | 97.0 |
| STAMFORD | 013 | 7. T. O | | 66.3 | 98.0 | 98.0 | 98.0 |
| STERLING | 0.7 | 198 | | 100.0 | 100.0 | 97.9 | 6.66 |
| STONINGTON | - 00 | | | 100.0 | 98.0 | 98.0 | 98.0 |
| STRATEORD | 000 | 001 | | 100.0 | 100.0 | 4.66 | 100.0 |
| SHEETELD | 9 1 | | • | 100.0 | 8.66 | 93.6 | 100.0 |
| THOMASTON | 7.0 | 153 | • | 98.7 | 99.3 | 7.86 | 98.7 |
| THOMPSON | 0 - | 08, | 3.6 | 98.8 | 100.0 | 98.8 | 98.8 |
| TOLLAND | † - C | | • | 100.0 | 99.1 | 98.2 | 98.2 |
| TORRINGTON | - C | 760 | • | 100.0 | 100.0 | 99.5 | 100.0 |
| TRIMERII | 0 c | 33. | 5.1 | 100.0 | 97.0 | 97.0 | 97.0 |
| NOIN | ** | | • | 100.0 | 7.66 | 4.66 | 7.66 |
| VERNON | 900 | • r | • | 100.0 | 100.0 | 100.0 | 100.0 |
| VOLUNTOWN | 233 | 797 | • | 100.0 | 98.5 | 98.1 | 99.3 |
| WALLINGFORD | 004 | 300 | • | 100.0 | 100.0 | 100.0 | 100.0 |
| WATERBURY | 1 032 | 0 40 | • | 100.0 | 100.0 | 99.5 | 4.66 |
| WATERFORD | 202 | 100 | 2.6 | 100.0 | 100.0 | 97.8 | 6.66 |
| WATERTOWN | 277 | . 253 | | 0.001 | 100.0 | 100.0 | 100.0 |
| - | 53 | 5,1 | • | 0.00 | 4.86. | 97.2 | 7.86 |
| WEST HARTFORD | 630 | 610 | • | 0.00 | 0.001 | 0.001 | 100.0 |
| WEST HAVEN | 645 | 516 | | 7 00 | 0.80 | 7.6 | 39.5 |
| WESTON | 121 | 121 | | . 66 | 0.00 | | 50.00 |
| WESTPORT | 223 | 216 | | 100.0 | 1000 | 2.66 | ٠./٧ |
| WETHERSFIELD | 236 | 220 | 8.9 | 100.0 | 0.001 | 200 | |
| WELL MGION | 09 | 09 | 0. | 100.0 | 100.0 | 10.0 | |
| WILLOW | 203 | 199 | | 100.0 | 100.0 | . 6 | |
| WINCHESTER | 152 | 143 | | 100.0 | 100.0 | 100.0 | |
| A MORAN | 275 | 244 | 11.3 | 100.0 | 98.0 | 2.96 | 0.0 |
| MINDSOR COOK | 351 | 338 | | 100.0 | 99.7 | 4 66 | 9 |
| MOLCOTT | 911 | 138 | | 99.3 | 99.3 | 97.8 | 000 |
| 1000gg | 7.1 | 177 | • | 100.0 | 100.0 | 100.0 | 100.0 |
| WOODSTOCK | 101 | L 60 | | 100.0 | 100.0 | 100.0 | 100.0 |
| REGIONAL SCH 6 | 73 | U 0 | ٠ | \$00.0 100.0 | 100.0 | 100.0 | 100.0 |
| SCH | 801 | , eo t | ٠ | 100.0 | 100.0 | 100.0 | 100.0 |
| | 82 | 92 | • | 0.00, | 100.0 | 99.5 | 100.0 |
| | 119 | 2.5 | • | 0.00 | 100.0 | 100.0 | 100.0 |
| SCH. | 135 | 126 | • | 0.00 | 0.001 | 100.0 | 100.0 |
| ONAL SCH | 253 | 243 | | 0.00 | 9.00 | 8.00 | 77.86 |
| ONAL | 152 | 150 | | 0.00 | 0.00 | 9.0 | 99.5 |
| SCH | 156 | 148 | | | 2.001 | 2.00 | |
| KEGIONAL SCH 18 | 109 | 103 | | . 6 | 5.96 | | 0.00 |

| | TOTAL FOURTH-GRADE | STUDENTS | PERCENT OF STUDENT | PERCENT | PERCENT OF ELIGIBLE STUDENTS TESTED | UDENTS TEST | ED |
|-------------|-----------------------|-------------|--------------------|-------------|-------------------------------------|-------------|---------|
| DISTRICT | POPULATION | FOR TESTING | FROM TESTING | MATHEMATICS | MATHEMATICS LANGUAGE ARTS W | WRITING | READING |
| TOC 1 TOTAL | 7,239 | 6,561 | 4.6 | 98.86 | 4.86 | ħ·ħ6 | 7.76 |
| TOC 2 TOTAL | 7,787 | 7,374 | 5.3 | 7.66 | 99.3 | 98.6 | 99.1 |
| TOC 3 TOTAL | 8,787 | 8,280 | 5.8 | 7.66 | 99.3 | 98.0 | 0.66 |
| TOC & TOTAL | 7,061 | 6,858 | 2.9 | 7.66 | 4.99 | 7.86 | 0.66 |
| TOC 5 TOTAL | 4,070 | 3,911 | 3.9 | 99.8 | 99.5 | 1.66 | 99.3 |
| TOC 6 TOTAL | 2,908 | 2,761 | 5.1 | 9.66 | 0.66 | 98.3 | 7.86 |
| | | | | | | | |
| ERG 1 TOTAL | 2,096 | 2,054 | 2.0 | 8.66 | 9.66 | 99.3 | 4.66 |
| ERG 2 TOTAL | 6,195 | 5,974 | 3.6 | 8.66 | 99.2 | 98.6 | 0.66 |
| ERG 3 TOTAL | 4,102 | 3,950 | 3.7 | 9.66 | 4.66 | 7.86 | 99.1 |
| ERG 4 TOTAL | 5,599 | 5,376 | 4.0 | 6.66 | 7.66 | 0.66 | 99.5 |
| ERG 5 TOTAL | 4,936 | 4,726 | 4.3 | 8.66 | 99.5 | 98.6 | 99.3 |
| ERG 6 TOTAL | 9,630 | 8,902 | 7.6 | 9.36 | 99.1 | 7.76 | 98.8 |
| ERG 7 TOTAL | 5,294 | 4,763 | 10.0 | 98.3 | 97.8 | 93.1 | 8.96 |
| | | | | | | | |
| | | | | | | | |
| STATE TOTAL | 37,852 | 35,745 | 5.6 | 3.66 | 99.2 | 97.8 | 98.8 |





Connecticut State Department of Education

Division of Research, Evaluation and Student Assessment Douglas A. Rindone, Acting Director

Bureau of Evaluation and Student Assessment
Peter Behuniak, Acting Chief

Student Assessment and Testing Unit William J. Congero, Coordinator

> Patricia Brandt Richard Cloud Naomi Wise Education Service Specialists

John B. Rogers Education Service Assistant

Richard F. Mooney, Senior Program Associate

Stephen Martin, Assessment Associate

Division of Curriculum and Professional Development Betty Sternberg, Director

> Steven Leinwand Mari Muri Mathematics Consultants

Karen Costello Reading/Language Arts Consultant

It is the policy of the Connecticut State Board of Education that no person shall be excluded from participation in, denied the benefits of, or otherwise discriminated against under any program including employment, because of race, color, religion, sex, age, national origin, ancestry, marital status, mental retardation, mental or physical disability, including, but not limited to blindness.





