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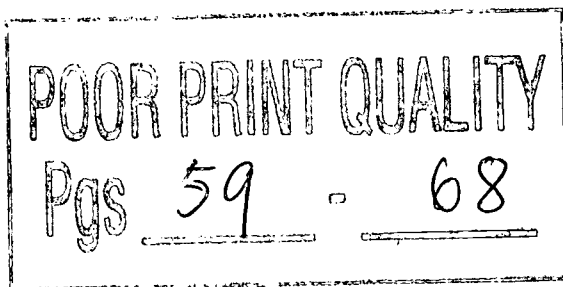
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ABSTRACT

This guide contains materials to help Delaware educators understand and use reports from the Delaware Student Testing Program (DSTP). The DSTP tests are tied to the Delaware content standards that define the knowledge and skills required for students to progress beyond high school. In spring 2003, the DSTP reading, writing, and mathematics tests were administered, with the science and social studies tests given in grades 8 and 11 in the spring and in grades 4 and 6 in October. Section 1 of this guide is an introduction to the DSTP, and it also discusses the various types of report generated by the testing program. Sections 2, 3, and 4 discuss the English Language Arts, mathematics, and science and social studies tests respectively. Section 5 describes the Diploma Index, which determines the type of diploma a Delaware high school graduate will receive. An appendix contains 10 sample reports. (SLD)



Delaware Student Testing Program

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A SCORE RESULTS GUIDE FOR EDUCATORS

Prepared by the Assessment and Analysis Group
Assessment and Accountability Branch

Delaware Department of Education
Spring 2003

Available on the Department of Education Website at
www.doe.state.de.us/aab

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SECTION I: INTRODUCTION TO THE DSTP

Delaware students must meet world-class standards if they are to be competitive and successful in a global economy. To prepare our students for their future, our schools must support rigorous standards and each of our teachers must set high expectations. Our students must also commit themselves to the achievement of excellence.

Any system that hopes to accomplish such ambitious goals must have a yardstick by which to measure its progress. Delaware educators have developed the Delaware Student Testing Program (DSTP) that now serves as such a yardstick. The tests are tied to the Delaware content standards that define the knowledge and skills required for our students to succeed beyond high school. The results of the DSTP provide us with an understanding of how well we are preparing students to meet the many challenges that lie ahead. Whatever the results, Delaware students and educators will understand where we are so that we can tell how far we have to go. An accurate assessment of where we are is the first step towards getting where we want to be.

This past spring, the annual administration of the DSTP reading, writing, and mathematics tests were administered to provide us with an accurate measure of how well our students are doing relative to Delaware's rigorous content standards. The science and social studies tests were also administered in grades 8 and 11. The grades 4 and 6 science and social studies tests are administered in October.

Purpose of the Test

The Delaware Student Testing Program is designed to:

- serve as a measure of progress toward the Delaware content standards;
- ensure that students can apply their academic skills to realistic, everyday problems;
- promote better instruction and curriculum by providing timely reports of students' strengths and weaknesses;
- ensure that students are formally provided with extra instruction when needed;

- serve as a primary indicator in the statewide accountability system and
- help districts determine who should and should not be promoted from grade to grade.

Questions and Answers About the 2003 DSTP

What are “Standards”?

The standards are the result of several years of work by Delaware educators to determine what Delaware students should know and be able to do as a result of their education. The standards for English language arts (reading and writing), mathematics, science and social studies were approved by the State Board of Education in 1995. Since then, Delaware’s standards have been widely recognized as among the best in the nation. Each teacher and each administrator in Delaware has a copy of the Standards.

What kind of information is tested in each part of DSTP?

Reading: Reading is assessed using literature that informs, entertains or explains how to perform a task. Students are asked to read passages and then demonstrate their ability to comprehend, analyze and interpret what they have read by answering multiple choice, short answer, and extended response questions.

Because reading is fundamental to success in all areas of education, the reading test is especially important. ***The results of the spring 2003 reading test at grades 3, 5 and 8 will determine whether or not students will be required to have an Individual Improvement Plan (IIP) for the 2003-2004 school year. Summer school will be a mandatory component of some of these IIP’s.***

Writing: In this section of the test, writing is assessed in two ways. First, students are asked to provide a written response to a prompt with a specific purpose and audience in mind. Second, students are asked to write a response to a question about a reading passage. This is done to assess students’ ability to recognize that reading and writing are integrally connected.

Mathematics: The mathematics section assesses a student’s ability to grasp key concepts and solve realistic problems. Multiple choice, short answer, and extended response questions are used to assess students’ conceptual knowledge, procedural knowledge, and knowledge of mathematical processes across core areas such as computation, measurement, algebra, and geometry. Because the test is focused on reasoning and analysis, students are permitted to use calculators on some parts of the test. ***The results of the Spring 2003 mathematics test at grade 8 will determine whether or not students will be required to have an Individual Improvement Plan (IIP) for the 2003-2004 school year. Summer school will be a mandatory component of some of these IIP’s.***

Science: The science section assesses a student’s ability to grasp key scientific principles and solve realistic problems. Multiple choice questions and short answer

questions are used to assess students' conceptual knowledge, procedural knowledge, and knowledge of scientific principles across core areas such as ecology, diversity of living things, life processes, dynamic systems, space, energy, properties of materials, and the nature and application of science and technology. The test is focused on reasoning and analysis.

Social Studies: The social studies section assesses a student's ability to grasp key concepts and apply this knowledge to everyday living within a diverse world, and within a democratic system. Multiple choice questions and short answer questions are used to assess students' conceptual knowledge and analytical abilities across core areas such as civics, economics, geography, and history. The test is focused on reasoning and analysis across core areas.

What are scaled scores and what is the advantage of using them?

The number of correct responses a student gives to test items is called a raw score. The reading and mathematics raw scores are converted to scaled scores by use of the Item Response Theory, Rasch Model process. This is a widely accepted scaling procedure used by testing companies. The primary purpose of converting raw scores to scaled scores is to aid in interpreting students' test results. Scaled scores allow comparison of the scores of a student over time from grade 3 to grade 5 to grade 8 to grade 10. This permits an examination of the student's growth over time. Scaling also permits the examination of other trends in performance of groups of students over time.

What reports are available and how can they be accessed?

Individual student reports are produced and provided to the student's parent or guardian and for the school files.

School, district, and state summary reports (that do not contain individual student scores) can be accessed by the public using the Department of Education website at: www.doe.state.de.us/aab.

There are five types of reports available on the DSTP-OR registered user system. Superintendents, principals, administrators, and registered teachers have access to these reports.

1. Individual Student Score Reports:

The student's results are reported to parents and to schools so parents and teachers can review the indicators of the student's academic strengths and weaknesses and can begin to assist students in meeting the content standards.

After the administration of the DSTP in the spring of 1999, the results were used to develop decision points for performance levels (see pages 9 and 10 for reading and writing, and pages 22 through 23 for mathematics.)

2. School Score Reports:

The student performance on the DSTP for the entire school can assist school staff in evaluating how the curriculum is functioning: What are the strengths of the curriculum? What are the weaknesses? What overall curriculum changes might be necessary to assist students in meeting the standards? The school score reports can provide a signal to the principal that additional resources may be needed or reallocated to assist teachers in providing the necessary instruction.

3. District Score Reports:

The district-wide student performance on the DSTP allows district staff to identify strengths and weaknesses common to the schools in the district. This information permits the district administrators to examine district-wide curriculum that works, curriculum that needs adjustment, resource allocation, and/or any other adjustment that might be necessary.

4. State Score Reports:

The statewide scores permit the public to monitor the collective progress of students toward meeting the Delaware content standards. It is anticipated that the statewide scores on the DSTP will increase for students as teachers and school administrators begin to identify strengths and weaknesses and to continue to work for changes to improve the educational process.

5. Selected Group Score Reports:

The student performance on the DSTP for a selected class or group allows the school administrators and registered teachers to focus on special curricular issues of that group. These scores can provide a signal to the principal that additional resources may be needed or reallocated to assist teachers in providing the necessary instruction for this group.

Reports

Reports sent to parents

Parents of students in grades 2 through 10 receive two printed reports:

1. The 2003 DELAWARE STUDENT TESTING PROGRAM English Language Arts Individual Report, and
2. The 2003 DELAWARE STUDENT TESTING PROGRAM Mathematics Individual Report.

Parents of students in grades 4, 6, 8, or 11 receive a third type of printed report:

3. The 2003 DELAWARE STUDENT TESTING PROGRAM Science and Social Studies Individual Report. Reports for 8th and 11th grade students will be sent in September of 2003, reports for 4th and 6th grade students will be sent in February 2003.

Reports available for public access

DSTP On-line summary reports are available for public access. These reports can be accessed through the Delaware Department of Education website: www.doe.state.de.us/aab. After connecting with the website, click on the "DSTP Online Report" green tile. The following reports can be accessed:

- overall summary reports,
- disaggregated reports,
- matched-scores reports,
- summary by district, and
- district and school summaries.

DSTP results from the earlier years of assessment are also available. An example of a statewide summary report is found in Appendix A.

Reports generated by the DSTP-OR System

A DSTP-OR system report can be obtained through the Delaware DOE Web site. The site is secure and a password is required to access student information. Contact your principal regarding the policy for requesting this secure information. Teachers may obtain a password through approval of their principal to directly access student data. The reports provide student score information for English language arts (reading and writing), mathematics, science, and social studies. There are several DSTP-OR reports that may be of special interest to you as a classroom teacher:

- a report of test scores and/or performance levels of selected students in your classroom or school;
- a summary report of test scores and/or performance levels of selected students in your classroom or school;
- instructional needs report for selected students or school;
- student DSTP performance level comparison based on matched scores.

Reports available to teachers

For grades 2 to 10, through on-line reporting teachers can produce:

1. English language arts scores for each student in the class and summary reports for the entire class,
2. Mathematics scores for each student in the class and summary reports for the entire class, and/or

For grades 4, 6, 8, and 11, through on-line reporting teachers can produce:

3. Science and social studies scores for each student in the class and summary reports for the entire class.

Reports for administrators

Schools

Each school can access three basic reports:

1. For students in grades 3, 5, 8, and 10, the 2003 DELAWARE STUDENT TESTING PROGRAM English Language Arts Report for the School,
2. For students in grades 3, 5, 8, and 10, the 2003 DELAWARE STUDENT TESTING PROGRAM Mathematics Report for the School, and
3. For students in grades 4, 6, 8, and 11, the 2003 DELAWARE STUDENT TESTING PROGRAM Science and Social Studies School Report. (Reports for 8th and 11th grade students will be available in fall of 2003, reports for 4th and 6th grade students will be available in February 2003.)

They can also generate selected group reports for grades 2 to 10 in English Language Arts and Mathematics and for grades 4, 6, 8 and 11 for Science and Social Studies.

Districts

Each district can access three basic reports:

1. Students in grades 3, 5, 8, and 10, the 2003 DELAWARE STUDENT TESTING PROGRAM English Language Arts Report for the District,
2. Students in grades 3, 5, 8, and 10, the 2003 DELAWARE STUDENT TESTING PROGRAM Mathematics Report for the District, and
3. Students in grades 4, 6, 8, and 11, the 2003 DELAWARE STUDENT TESTING PROGRAM Science and Social Studies District Report. (Reports for 8th and 11th grade students will be sent in September of 2003, reports for 4th and 6th grade students will be sent in February 2003.)

They can also generate selected group reports for grades 2 to 10 in English Language Arts and Mathematics and for grades 4, 6, 8 and 11 for Science and Social Studies.

SECTION II:

Understanding the

English Language

Arts Report

For grades 3, 5, 8 and 10, the score report you receive contains six sections of information regarding student performance on reading and writing:

- A. Grade Tested, Test Date, SAT9 Level/Form, and SAT9 Norms
- B. A student's Performance Level and score in reading and in writing.
- C. The reading scaled score for a student compared to other students tested at the same grade level in the school;
The average reading scaled score for the school (for students tested at the same grade level);
The average reading scaled score for the district (for students tested at the same grade level);
The average reading scaled score for the State of Delaware (for students tested at the same grade level);
- D. The writing score of a student compared to other students tested at the same grade level in the school;
The average writing score for the school (for students tested at the same grade level);
The average writing score for the district (for students tested at the same grade level);
The average writing score for the State of Delaware (for students tested at the same grade level);
- E. Student's SAT9 percentile rank for reading for the grade level tested; and
- F. Student's Instructional Needs for reading and writing.

For grades 2, 4, 6, 7 and 9, the score report you receive contains six sections of information regarding student performance on reading and writing:

- A. Grade Tested, Test Date, SAT9 Level/Form, and SAT9 Norms
- B. A student's progress towards the standards and score in reading and in writing.
- C. A reading scaled score for a student compared to other students tested at the same grade level in the school;
The average reading scaled score for the school (for students tested at the same grade level);
The average reading scaled score for the district (for students tested at the same grade level);
- D. The writing score of a student compared to other students tested at the same grade level in the school;
The average writing score for the school (for students tested at the same grade level);
The average writing score for the district (for students tested at the same grade level);
- E. Student's SAT9 percentile ranks for reading for the grade level tested; and
- F. Students' Instructional Needs for reading and writing.

Each section of the English Language Arts Individual Report is discussed separately.

A. Grade Tested, Test Date, SAT9 Level/Form and SAT9 Norms

This part of the score report provides general information about the administration of the test:

- The grade level at which the student was tested is reported next to **Grade Tested**:
- The date the student took this test is listed after **Test Date**:
- Following the test date is the **SAT9 Level/Form**. The SAT9 is an acronym for the *Stanford Achievement Test-Ninth Edition*. The SAT9 is a standardized, nationally administered test. The level refers to test appropriate for the grade tested. The form refers to one that is secure for statewide use only.
- To create the national **SAT9 Norms**, this standardized test was administered to a representative sample of from 225,000 to 250,000 students nationwide. Their score results are referred to as national norms, or more usually, "norms". The norms become a reference point against which to compare the performance of any student who then takes the SAT9. The norms for this test were developed in 1995.

B. Performance Levels/Progress Towards the Standards: Reading and Writing

Performance Level Cut Point Development: Grades 3, 5, 8 and 10

During the fall of 1999, a group of 188 participants consisting of 83% teachers, 7% administrators, 9% parents, and 1% participants from organizations or from the community, met under the guidance of Harcourt Educational Measurement, to develop the “Meets the Standard” and “Exceeds the Standard” cut points. A subset of these participants developed the cut points for reading and writing. The methodology used by judges for setting the cut points is referred to as “Item Mapping” by some measurement companies, and “Bookmarking” by other companies. This procedure required several groups of judges to examine a book of DSTP items arranged from the easiest to the most difficult and inserting “bookmarks” at the items they felt most strongly defined where a cut should be placed. Each group of judges worked with a single test at a single grade. Once the judges’ recommendations for the “Meets the Standard” and “Exceeds the Standard” performance levels had been finalized, the Department of Education, with the technical assistance of Harcourt Educational Measurement, calculated the cut points for the “Below the Standard” and “Well Below the Standard” levels, and the cut point for the “Distinguished” performance level. In the winter of 2002, the writing cut points were adjusted.

There are five performance levels in reading and writing that are consistent with Delaware’s accountability law. The following describe each level:

Performance Level		Described as:
Level 5	Distinguished Performance	Exemplary Performance
Level 4	Exceeds the Standard	Very Good
Level 3	Meets the Standard	Good
Level 2	Below the Standard	Needs Improvement
Level 1	Well Below the Standard	Needs Significant Improvement

Cut Points for Reading for Grades 3, 5, 8 and 10:

The DSTP Reading scale scores by performance level are as follows:

	Well Below the Standard	Below the Standard	Meets the Standard	Exceeds the Standard	Distinguished Performance
Grade 3	386 or less	387 to 410	411 to 464	465 to 481	482 or more
Grade 5	426 or less	427 to 450	451 to 507	508 to 528	529 or more
Grade 8	474 or less	475 to 499	500 to 563	564 to 583	584 or more
Grade 10	476 or less	477 to 501	502 to 572	573 to 592	593 or more

Cut Points for Writing for Grades 3, 5, 8 and 10:

The DSTP writing raw scores by performance level are as follows:

	Well Below the Standard	Below the Standard	Meets the Standard	Exceeds the Standard	Distinguished Performance
Grade 3	1-4	5 -6	7-9	10-11	12-15
Grade 5	1-4	5 -7	8-9	10-11	12-15
Grade 8	1-4	5 -7	8-9	10-11	12-15
Grade 10	1-4	5 -7	8-9	10-11	12-15

Progress Achieved for Grades 2, 4, 6, 7 and 9

For grades 2, 4, 6, 7 and 9 reading and grades 4, 6, 7, and 9 writing, the report indicates whether the student is making “satisfactory progress” or “unsatisfactory progress.” For reading, there are some students that are on the borderline and are placed in the “progress warning” area.

If the student has achieved “satisfactory progress,” the results indicate that he/she is making progress towards meeting or exceeding the standards at the next “accountability” grade (3, 5, 8 or 10). If the student is in the “unsatisfactory progress” area, this serves as an “early warning” and the school will design an Individual Improvement Plan for the student. This will list the activities targeted for the student in order to help the child meet the standards when tested at the next “accountability” grade. If the student is in the “progress warning” area in reading, the school may design an Individual Improvement Plan for the student.

C. Score Comparisons of Grade Tested: Reading

This section contains score comparisons of an individual student’s reading score against the students in the school tested at the same grade level. The student’s score is found on the line between the lowest scale score listed on the left-hand side of the line and the maximum scale score on the right. You can also compare an individual student’s performance to the performance of the students tested at the same grade level in the district and in the state (except for grades 2, 4, 6, 7, and 9).

Students at different grade levels will have different scale values. For example, for tenth grade students, the scale listed ranges from 250 to 800; for eighth grade students, it ranges from 225 to 775; for fifth grade students, it ranges from 175 to 700; and for third grade students, it ranges from 150 to 675. It is expected that older students will perform at a higher level than younger students.

The Individual Student's Score

In this section you can see how well an individual student is performing, as compared to the students tested at the same grade in the school by locating the position of the students' score on the scale relative to the position of the score for the students who took the test at the same grade level in the school. You can also compare the student's performance to the performance of all same grade students in the district and in the state (grades 3, 5, 8, and 10).

The School's Score

You can see how the students tested at the same grade level in the school are performing on reading compared to the students in the district who took the test at that grade level by examining the position of the school's score on the scale relative to the district's score. You can also compare the school's score to the performance of the students tested at the same grade level in the state (grades 3, 5, 8, and 10).

The District's Score

Also, you can see how the students tested at the same grade level in the district are performing on reading compared to students statewide who took the test at the same grade level by examining the position of the district's score on the scale relative to the state's score (grades 3, 5, 8, and 10).

The State of Delaware's Score (Grades 3, 5, 8 and 10)

In addition, you can see how the students who took the same grade level test in the State of Delaware are performing on reading by examining the position of the state's score on the scale.

D. Score Comparisons of Grade Tested: Writing

This section contains score comparisons of an individual student's writing score against students who took the same grade level test in the school and in the district. This score is the total points the student received on two writing prompts (except for grade 2, where students only took the text-based writing). The first prompt is based on a reading passage and is called a text-based writing prompt; that is, students must read a passage and then answer a question and write about what they read.

The second prompt stands by itself. Students respond to a few sentences that prompt them to write about a topic or an issue.

The text-based prompt is scored by one judge, the stand-alone prompt is scored by two judges, and the total writing score is the combination of all three scores. A maximum of 5 points and a minimum of 1 point can be awarded by each judge, thus the maximum score is 15 (5+5+5). The student's writing score is found on the line between the 1 to 15 scale. The maximum score for grade 2 is 5.

The Individual Student's Score

In this section you can see how well an individual student is performing in writing as compared to the students tested at the same grade in the school by locating the position of the student's score on the scale. You can also compare the student's performance to the performance of the students tested at the same grade level in the district and in the state (grades 3, 5, 8, and 10).

The School's Score

You can see how the students tested at the same grade level in the school are performing on writing compared to the students in the district who took the test at that grade level by examining the position of the school's score on the scale. You can also compare the school's score to the performance of students tested at that grade level in the state (grades 3, 5, 8, and 10).

The District's Score

Also, you can see how the students tested at the same grade level in the district are performing on writing compared to students statewide who took the test at that grade level by examining the position of the district's score on the scale relative to the state's score (grades 3, 5, 8, and 10).

The State of Delaware's Score (Grades 3, 5, 8 and 10)

In addition, you can see how the students who took the test at the same grade level in the State of Delaware are performing on writing by examining the position of the state's score on the scale.

E. A Student's Percentile Rank for Reading

The percentile rank for reading is obtained from the abbreviated form of the SAT9 that is embedded in the DSTP. The SAT9 is the timed portion of the DSTP and is included for several reasons:

- It allows comparisons of the reading performance of Delaware students on a nationally used standardized test, thus permitting the comparison of student performance on general reading proficiency to other students across the United States.
- A subset of the SAT9 items are directly related to the Delaware Reading Standards and are a part of the DSTP score.
- The SAT9 items included in the DSTP permit the important and efficient psychometric process of equating and scaling the DSTP from one administration of the test to subsequent administrations of the test.

A percentile rank is a way of looking at how well an individual student performed on the SAT9 reading test relative to all the same grade students in the national norms. Percentile rank gives you the additional information as to what percentage of same grade students in the norms scored higher or lower than an individual student. For

example, if a student had a reading percentile rank of 91, it means that 91 percent of the students in the national norms scored **below** the student and only 9 percent scored **at or higher than the student's score**. If the student had a reading percentile rank of 54, it means that 54 percent of the students in the national norms scored **below** the student and that 46 percent scored **at or higher** than the student's score. If the student had a percentile rank of 29, it means that 29 percent of students in the national norms scored **below** the student and that 71 percent scored **at or higher than the student's score**.

In some cases a student might score higher or lower on the SAT9 reading test than on the DSTP reading test. It must be kept in mind that a student's SAT9 percentile rank score cannot be directly compared to the relative scale position of the DSTP reading test score. There are several reasons why these scores are non-comparable:

- The SAT9 reading test is not directly aligned with Delaware reading content standards. A portion of the SAT9 reading test is related to the reading content standards and is included in the DSTP score, whereas the DSTP reading test is **completely aligned** with the English language arts content standards.
- The SAT9 is entirely comprised of multiple-choice items, whereas the DSTP is comprised of multiple choice, short answer, and extended response items. Writing short answers and extended responses requires very different skills than selecting the answer on a multiple-choice item. Because the items on the SAT9 and the DSTP reading test are very different in format (multiple choice vs. multiple choice, short answer, and extended response), they measure very different aspects of reading and their results cannot be directly compared.
- The score for the DSTP reading test is based on a substantially larger number of test items than the score for the SAT9 reading test. This means that the DSTP reading test samples a larger portion of the student's reading skills as defined by the English language arts content standards than does the SAT9.

F. Instructional Needs: Reading and Writing

This section of the report provides feedback that depends on what items an individual student answered correctly and incorrectly, and/or how the items were answered. For that reason, each student's report will likely differ from another student's report.

Reading

In reading, comments are produced depending on the kind of items a student can and cannot answer. For example, if a student answered incorrectly a series of open-ended reading items that needed more details, a comment would be produced suggesting that the student needed to work on "providing enough details from the text to answer open-ended questions." Likewise, if items that measured the student's ability to understand the central ideas in a piece of text are answered incorrectly, a comment would be produced stating that the student needed to work on "interpreting meaning by drawing conclusions about the central ideas in a text." The instructional needs comments provide the student, the parent, and the teacher with information about the areas in which the child needs to improve performance.

On the School Summary Report, all comments produced (triggered) by all students in the school are listed. On the District Summary Report, all comments produced by all students in the district are listed. For each comment, the number, and the percent of students that triggered the comment is reported. The summary of individual student instructional needs for the school can provide information about the areas in which the students need to improve performance. **It is strongly recommended that in addition to reading the school summary report, teachers should also review the individual student report for each student in the classroom.** When reviewing the individual reports, you will find that each student's report will likely differ from another student's report in this section.

It should be noted that the comments on the instructional needs in reading:

- reflect the Delaware content standards for reading;
- are listed from basic to complex as indicated in the Delaware content standards for reading;
- were developed to help teachers examine the instructional needs of their students; and

The reading standards support twelve broadly stated comments that relate to reading. Not all comments are triggered at all grade levels. Following are the comments that can be triggered by student responses to one or more of the reading items:

- providing enough details from the text to answer open-ended questions,
- determining meaning by reading more carefully to retell or restate information from the text,
- determining meaning by using strategies to understand the text,
- interpreting meaning by drawing conclusions about the central ideas in a text,
- interpreting meaning by using information to make inferences,
- interpreting meaning by identifying and understanding why a text was written,
- extending meaning by drawing conclusions and using critical thinking to connect and synthesize information within and across text, ideas, and concepts,
- extending meaning by understanding the effects of author's techniques and decisions,
- extending meaning by using text to formulate, express, and support opinions,
- extending meaning by making, supporting, and extending inferences about contents, events, characters, setting, theme and style, and/or
- continuing use of good reading strategies. Congratulations!

The instructional needs comments provide the student, the parent, the teacher, and the administrator with information about the areas in which the student needs to improve performance.

Writing

In writing, a cluster of comments is produced (triggered) according to a student's "average" performance score across two writing prompts. Triggering the cluster of comments in this way allows us to create a hierarchy of comments that will help push all students towards the upper end of the state writing rubric (scoring guide), and thus toward the state standards for writing.

It should be noted that the comments on the Instructional Needs in writing:

- reflect the Delaware content standards for writing;
- provide parents with information regarding their student's strengths and weaknesses in writing;
- were developed to help teachers examine the instructional needs of their students;
- occur in "clusters" as opposed to individual comments to better reflect the integrated nature of the writing rubric (scoring guide) and the Delaware writing standards.

The writing standards support four broadly stated clusters of comments that relate to writing. The clusters are hierarchical in nature, that is, Cluster 1 more in-depth instructional needs a student requires for improvement, and Cluster 4 requires less in-depth remediation needs.

Each student who took the test will receive a cluster of comments that match their scores. Following are the comments that can be triggered by an individual student's written responses. The comments come directly from the state writing rubric (scoring guide) and the state standards. Two comments: "organizing their writing around a simple topic or central idea" and "working to avoid errors in conventions of English usage, grammar, spelling, and punctuation that interfere with understanding," are repeated in clusters 1 and 2 to show that developing writers need continued instruction in these areas.

Cluster 1

- organizing the writing around a single topic or central idea.
- writing in complete sentences with a variety of length and structure.
- working to avoid errors in conventions of English usage, grammar, spelling, and punctuation that interfere with understanding.
- doing more than restating the prompt.

Cluster 2

- organizing the writing around a simple topic with an introduction, closing, and some transitions.
- working to avoid errors in conventions of English usage, grammar, spelling, and punctuation that interfere with understanding.
- supporting ideas with more specific details.
- doing more than making generalities regarding the prompt.

Cluster 3

- using effective introduction and closing.

- writing in a consistent style with precise vivid word choice.
- writing with a clear logical progression of ideas using smooth transitions.
- including relevant details that are fully elaborated.

Cluster 4

- Congratulations on an excellent performance on at least one of the two writing prompts. The comments below are to encourage the student to strive for excellence by:
 - continuing to write using distinctive voice and style,
 - showing an exceptional awareness of readers' needs.

It is strongly recommended that in addition to reviewing the school summary report, teachers should also review the individual score report for each student in the classroom. These reports can be obtained from the DOE website DSTP-OR intranet system. When reviewing the individual reports, you will find that students who have similar scores will have the same comments triggered.

The instructional needs comments contain information that you can utilize when making decisions about writing instruction for students. Remember that the school summary report will indicate the number and percent of students in the school for whom the comment clusters were triggered. This means that the higher the percentage of students indicated as having a need, the more likely it is that additional instruction in that area of the standards will improve test scores.

Teachers and Principals Using the Instructional Needs: Reading and Writing

Ideas for reflection: Reading

Following is a list of broadly stated questions that you can ask yourself and can discuss with other educators as you reflect on the instructional needs comment reports for reading in an attempt to help students improve. As no two classrooms are exactly alike, it is our hope that these questions will lead you to answers that are specific to the needs of your students.

- How does reading instruction in your school align with the Delaware standards for reading?
- What does reading instruction look like in the classroom?
- What pre-reading strategies are used to help students get ready to read?
- What strategies are used to help students self-monitor their comprehension?
- What strategies are used to help students critically analyze and evaluate text?
- What strategies are used to help students identify the central ideas in a text?
- Do students have ample opportunity to read?
- Do students keep reading logs or reading journals?
- How do students select books and other materials for independent reading?

- What strategies are used to encourage students to read a variety of materials, e.g., literary, informative, technical?
- What opportunities are provided for students to talk about what they have read?
- Do students write about what they have read?
- How are students encouraged to compare and contrast information from a variety of sources?
- How is students' reading assessed?
- How do students assess their own reading?
- Have students had an opportunity to take practice test questions like those administered on the DSTP?

Ideas for reflection: Writing

Following is a list of broadly stated questions that you can ask yourself and discuss with other educators as you reflect on the writing instructional needs reports in an attempt to help students improve their writing skills. As no two classrooms are exactly alike, it is our hope that these questions will lead you to answers that are specific to the needs of students.

- How does the writing instruction align with the Delaware standards for writing?
- What does writing instruction look like in your school?
- Is writing process taught?
- Do students have ample opportunity to write?
- Do students have ample opportunity to write for different purposes and audiences using a variety of forms?
- How are the students helped to generate content for their writing?
- How do you help students organize their writing?
- What strategies are used to encourage your students to revise their writing?
- Are students encouraged to write in different content areas?
- How is writing assessed?
- Is the state writing rubric used to teach and/or assess writing?
- How do students assess their writing?
- How is assessment data used to improve your students' writing?
- Have students had an opportunity to take practice test questions like those administered on the DSTP?

Utilizing instructional needs

For the teacher and principal to best utilize the information in the instructional needs part of the classroom report, the following steps are recommended.

1. Meet with other teachers according to standards grouping (i.e., K-3, 4-5, 6-8, 9-10/11) to review the comments and the related standards. It is highly desirable that all teachers within a grade cluster participate in the discussions. The accountability system and the DSTP reflect the degree of success at reaching the standards, which is much broader and more comprehensive than a single grade level.

2. Discuss the kinds of practices, assignments, teaching strategies, etc. that you are using, and whether or not those practices are in line with the standards and address the comments. Some suggestions are included in this guide.
3. Work through the reports with the groups of teachers, discussing strengths, and areas for improvement. If a school seems to have all the comments triggered at about the same rate, teachers should be encouraged to prioritize their efforts so they don't feel as if they have to do everything all at once. Be sure to talk about the kinds of activities that you feel would help students in the particular area(s) of the standards where they seem to need some help.
4. Go through each comment and the related standards to discuss what you might say to a parent whose child has had a particular comment triggered. The comments were intentionally written in teacher/standards language, which will be foreign to some parents, and they will need some clarification. Be prepared to explain to parents how you intend to address their concerns in your teaching practices.
5. Meet regularly throughout the year to review your progress in teaching the standards, working with parents, etc.

This kind of strategy should help make the best use of the instructional needs data, particularly in terms of helping understand the standards and what they can do to help students perform at even higher levels. We would encourage you to read the data carefully and make decisions about how and what to teach.

We would also encourage you not to expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in your hands as professionals who instruct students on a daily basis.

Parent-Teacher Conference Materials

Several recently published documents may be of value to you when meeting with parents about the test scores of their children:

PTA Parent/Family Resource Guide

This guide is published by the Delaware PTA, and found in every school, community center, and library in Delaware. The guide can also be found on the web page of the Delaware PTA at: www.delawarepta.org. Particularly relevant sections of the handbook cover the following topics:

- Student learning
- Tips to motivate your children to do well in school
- Homework hints
- Help your child learn at home
- Making learning enjoyable

- Know your child's learning style
- Activities to help your child as a reader

The handbook is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for parent-teacher conferences.

Parent's Declaration of Responsibilities

This document is published by the Delaware PTA, and found in every school, community center, and library in Delaware. It can also be found on the web page of the Delaware PTA at: www.delawarepta.org. Provided is information on how the parent and family can get involved in the education of their children. Topics covered include:

- Communication: Parent/Family Responsibilities and School Responsibilities
- Parenting: Parent/Family Responsibilities and School Responsibilities
- Student Learning: Parent/Family Responsibilities and School Responsibilities
- Volunteering: Parent/Family Responsibilities and School Responsibilities
- School Decision Making and Advocacy: Parent/Family Responsibilities and School Responsibilities
- Collaborating with the Community: Parent/Family Responsibilities and School Responsibilities

Superintendents and Boards of Education

Test scores are a **powerful tool when used properly** by the Chief School Officer and Boards of Education. They provide a measure of progress made and can be an indicator of priorities. In the beginning, superintendents and school boards should find monitoring the reading and writing scores of the schools in their district, as well as the statistics associated with the reading and the writing instructional needs comments, useful information to drive decision making and resource allocation. This monitoring should be done over time.

Caution must be used during the monitoring process. Reaction without thorough analysis of trend data, and the analysis of the underlying factors related to the scores trends would not be prudent. It should be a goal to treat the causes of low scores, and not the symptoms. Remember that instructional programs often help improve scores. Various programs can be explored with principals and teachers in the district to best benefit the districts, schools, teachers, and most importantly, the students.

A process that is an excellent first step that can be used by districts seeking to improve achievement is **curriculum alignment**. This activity involves studying what is written about the curriculum, what is taught in the district's classrooms, and what is assessed or tested. District curriculum workers, principals, and teachers should analyze the instructional programs of the district and schools in regard to these elements and then take whatever steps are needed to bring the three into alignment. For example, if a study shows that by the end of a grade cluster, students are expected to be able to

respond to literary texts representing various historical periods in English Language Arts, then all students must have opportunities to acquire those skills during that cluster. For districts to conduct alignment activities in English language arts and writing that center on Delaware's Content Standards, they will need the documents that are available to all Delaware districts: The alignment teams will need:

- **New Directions: State of Delaware English Language Arts curriculum Framework, 1995;**
- **Teacher's Desk Reference, Grades 6-8, 1998;**
or
- **Teacher's Desk Reference, Grades 9-12;**
- **Delaware Student Testing Program Item Samplers, 1998, 1999, and 2000.**

The 1995 New Directions document forms the foundation on which the DSTP is based; however, it should be noted that the performance indicators for English language arts are essentially the same as those found in the frameworks, so that a district could use either in its alignment work. Of course, districts will want to include local curriculum documents in the study as well.

Standards-based alignment also poses new issues to boards of education, superintendents, and other curriculum planners. In the days before standards, norm reference tests asked students to "identify", or "choose", or "match." This required factual learning and rarely asked students to do anything with what they were supposed to have learned. The Delaware State Testing Program, grounded as it is in high standards for all learners, asks students to "analyze," "evaluate," "apply," and more. To help students meet or exceed these high standards and to apply what they have learned requires classrooms in which problem solving, inquiry, and application are fostered.

We would also encourage administrators and boards of education **not to** expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in the hands of the professionals who instruct students on a daily basis. The 1995 New Directions document is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for any conferences.

SECTION III: UNDERSTANDING THE MATHEMATICS REPORT

For grades 3, 5, 8 and 10, the Mathematics Individual Report has five sections of information on student performance:

- A. Grade Tested, Test Date, SAT9 Level Form and SAT9 Norms;
- B. A student's Performance Level and score in mathematics;
- C. The mathematics scaled score for a student compared to other students tested at the same grade level in the school;
The average mathematics scaled score for the school (for students tested at the same grade level);
The average mathematics scaled score for the district (for students tested at the same grade level);
The average mathematics scaled score for the State of Delaware (for students tested at the same grade level);
- D. Students' SAT9 percentile rank for mathematics for the grade level tested; and
- E. Students' Instructional Needs in mathematics.

For grades 2, 4, 6, 7, and 9, the Mathematics Individual Report has five sections of information on student performance:

- A. Grade Tested, Test Date, SAT9 Level Form, and SAT9 Norms
- B. A student's Progress towards the Standards and score in mathematics;
- C. The mathematics scaled score for a student compared to other students tested at the same grade level in the school;
The average mathematics scaled score for the school (for students tested at the same grade level);
The average mathematics scaled score for the district (for students tested at the same grade level);

- D. Students' SAT9 percentile rank for mathematics for the grade level tested; and
- E. Students' Instructional Needs in mathematics.

Each section of the Mathematics Individual Report is discussed below.

A. Grade Tested, Test Date, SAT9 Level/Form and SAT9 Norms

Like the English Language Arts Report, this part of the score report provides general information about the administration of the test:

- The grade level at which the student was tested is reported next to **Grade Tested:**
- The date the student took this test is then listed after **Test Date:**
- Following the test date is the **SAT9 Level/Form**. The SAT9 is an acronym for the *Stanford Achievement Test-Ninth Edition*. The SAT9 is a standardized, nationally administered test. The level refers to test appropriate for the grade tested. The form refers to one that is secure for statewide use only.
- To create the national **SAT9 Norms**, this standardized test was administered to a representative sample of from 225,000 to 250,000 students nationwide. Their score results are referred to as national norms, or more usually, "norms". The norms become a reference point against which to compare the performance of any student who then takes the SAT9. The norms for this test were developed in 1995.

B. Performance Levels/Progress Towards the Standards: Mathematics

Performance Level Cut Point Development for Grades 3, 5, 8 and 10

During the fall of 1999, a group of 188 participants consisting of 83% teachers, 7% administrators, 9% parents, and 1% organization or community members, met under the guidance of Harcourt Educational Measurement, to develop the "Meets the Standard" and "Exceeds the Standard" cut points. A subset of these participants developed the cut points for mathematics. The methodology used by judges for setting the cut points is referred to as "Item Mapping" by some measurement companies, and "Bookmarking" by other companies. This procedure required several groups of judges to examine a book of DSTP items arranged from the easiest to the most difficult and inserting "bookmarks" at the items they felt most strongly defined where a cut should be placed. Each group of judges worked with a single test at a single grade. Once the judges' recommendations for the "Meets the Standard" and "Exceeds the Standard" performance level had been finalized, the Department of Education, with the technical assistance of Harcourt Educational Measurement, calculated the cut points for the

“Below the Standard” and “Well Below the Standard” levels, and the cut point for the “Distinguished” performance level.

The five performance levels in Mathematics are consistent with Delaware’s accountability law. The following describe each level:

<u>Performance Level</u>		<u>Described as:</u>
Level 5	Distinguished Performance	Exemplary performance
Level 4	Exceeds the Standard Performance	Very Good
Level 3	Meets the Standard Performance	Good
Level 2	Below the Standard Performance	Needs Improvement
Level 1	Well Below the Standard Performance	Needs Significant Improvement

Cut Points for Mathematics For Grades 3, 5, 8 and 10

The DSTP Mathematics scale scores by performance level are as follows:

	Well Below the Standard	Below the Standard	Meets the Standard	Exceeds the Standard	Distinguished Performance
Grade 3	381 or less	382 to 406	407 to 463	464 to 498	499 or more
Grade 5	423 or less	424 to 448	449 to 502	503 to 524	525 or more
Grade 8	468 or less	469 to 492	493 to 530	531 to 548	549 or more
Grade 10	499 or less	500 to 524	525 to 558	559 to 573	574 or more

Progress towards the Standards for Grades 2, 4, 6, 7 and 9

For grades 2, 4, 6, 7 and 9 mathematics, the report indicates whether the student is making “satisfactory progress” or “unsatisfactory progress.” For reading, there are some students that are on the borderline and are placed in the “progress warning” area. If the student has achieved “satisfactory progress,” the results indicate that he/she is making progress towards meeting or exceeding the standards at the next “accountability” grade (3, 5, 8 or 10). If the student is in the “unsatisfactory progress” area, this serves as an “early warning” and the school will design an Individual Improvement Plan for the student. This will list the activities targeted for the student in order to help the child meet the standards when tested at the next “accountability” grade. If the student is in the “progress warning” area in reading, the school may design an Individual Improvement Plan for the student.

C. Score Comparisons of Grade Tested: Mathematics

This section contains score comparisons of the student's mathematics score against the students tested at the same grade level in the school. For mathematics, the student's score is found on the line between the lowest scale score and the maximum scale score. You can also compare the student's performance to the performance of the students tested at the same grade level in the district and in the state (grades 3, 5, 8, and 10).

Students at different grade levels will have different scale values. This difference is related to the highest and lowest score the students would normally be expected to achieve at each different grade level. For example, for tenth grade students, the scale listed ranges from 300 to 800; for eighth grade students, the scale ranges from 250 to 750; for fifth grade students, it ranges from 175 to 700; and for third grade students, it ranges from 150 to 650. It is expected that older students will perform at a higher level than younger students.

The Individual Student's Score

In this section you can see how well the student is performing as compared to the students tested at the same grade level in the school by locating the position of the student's score on the scale. You can also compare the student's performance to the performance of the students tested at the same grade level in the district and in the state (grades 3, 5, 8, and 10).

The School's Score

Also, you can see how the students tested at the same grade level in the school are performing on mathematics compared to the students tested at that grade level in the district by examining the position of the school's score on the scale. You can also compare the school's score to the performance of the students tested at that grade level in the state (grades 3, 5, 8, and 10).

The District's Score

Also, you can see how the students tested at the same grade level in the district are performing on mathematics compared to students statewide who took the test at that grade level by examining the position of the district's score on the scale relative to the state's score (grades 3, 5, 8, and 10).

The State of Delaware's Score (Grades 3, 5, 8 and 10)

In addition, you can see how the students who took the test at the same grade level in the State of Delaware are performing on mathematics by examining the position of the state's score on the scale.

D. A Student's Percentile Rank For Mathematics

The percentile rank for mathematics is obtained from the abbreviated form of the SAT9 that is embedded in the DSTP. The SAT9 is the timed portion of the DSTP and is included for several reasons:

- It allows comparisons of the mathematics performance of Delaware students on a nationally used standardized test, thus permitting the comparison of student performance on general mathematics proficiency to other students in the nation.
- A subset of the SAT9 items is directly related to the Delaware Mathematics Standards and is part of the DSTP score.
- The embedded SAT9 items permit the important and efficient psychometric process of equating and scaling the DSTP test from one administration of the test to subsequent administrations of the test.

A percentile rank is a way of looking at how well an individual student performed on the SAT9 mathematics test relative to all the same grade students in the national norms. Percentile rank gives you information as to what percentage of students tested at the same grade level in the national norms scored higher or lower than the student. For example, if the student had a mathematics percentile score of 98, it means that 98 percent of the students in the national norms scored **below** the student and only 2 percent scored **at or higher than the student's score**. If the student had a Mathematics percentile of 45, it means that 45 percent of the students in the norms scored **below** the student and 55 percent scored **at or higher than the student's score**. If the student had a percentile score of 20, it means that 20 percent of students in the norms scored **below** the student and that 80 percent scored **at or higher than the student's score**.

In some cases a student might score higher or lower on the SAT9 mathematics test than on the DSTP mathematics test. It must be kept in mind that a student's SAT9 percentile rank score cannot be directly compared to the relative scale position of the DSTP mathematics test score. There are several reasons why these scores are non-comparable:

- The SAT9 mathematics test is not directly aligned with Delaware mathematics content standards. A portion of the SAT9 mathematics test is related to the mathematics content standards and is included in the DSTP score, whereas the DSTP mathematics test is **completely aligned** with the mathematics content standards.
- The SAT9 is entirely comprised of multiple-choice items, whereas the DSTP is comprised of multiple choice, short answer, and extended response items. Writing short answers and extended responses require very different skills than selecting the answer on a multiple-choice item. Because the items on the SAT9 and the DSTP mathematics test are very different in format (multiple choice vs. multiple choice, short answer, and extended response), they measure very different aspects of mathematics and their results cannot be directly compared.

- The score for the DSTP mathematics test is based on a substantially larger number of test items than the score for the SAT9 mathematics test. This means that the DSTP mathematics test samples a larger portion of the student's mathematical skills as defined by the Mathematics content standards than does the SAT9.

E. Instructional Needs: Mathematics

This section of the report provides feedback that depends on what items each student in your classroom answered correctly and incorrectly, and/or how the items are answered. The number of students and the percent of students who triggered each comment are provided. **It is strongly recommended that in addition to reviewing the school summary report, teachers should also review the individual student report for each student in the classroom.** When reviewing the individual reports, you will find that students who have similar scores will have the same comments triggered.

Instructional needs reports provide the number and percent of students in a class who received each indicator comment for mathematics. The mathematics instructional needs comments contain information that teachers can utilize when making decisions about mathematics instruction for their students. Remember that the instructional needs report will indicate the number and percentage of students for whom the comment was triggered. This means that the higher the percentage of students indicated as having a need, the more likely it is that additional instruction in that area of the standards will improve test scores.

It should be noted that the mathematics instructional needs:

- reflect the Delaware content standards for mathematics;
- are listed in a manner consistent with the Delaware standards for mathematics;
- were developed to help teachers examine the instructional needs of their students.

The mathematics standards support approximately twelve broadly stated comments—depending on the grade level—that relate to mathematics. Not all comments are triggered at all grade levels. The comments for the mathematics instructional needs reports were developed by grouping together several of Delaware's mathematics content standards with similar content. For example, content standards 5 and 6 are reported under the category *Number Concepts*. Standards 7 and 10 are reported under the category *Patterns, Algebra, and Functions*. Following are all the comments that can be triggered by student responses to the mathematics items. They are listed according to grade level so that teachers can see the connections and integration of concepts across the curriculum.

Grade 3

Number Concepts

- measuring
- using computation strategies with understanding
- using estimation skills to approximate an answer
- using the concept of place value
- using fractions to represent part of a whole

Patterns, Algebra, and Functions

- using basic number properties such as even/odd, reversibility of multiplication, etc.
- recognizing and extending a variety of patterns

Geometry

- recognizing and transforming geometric figures
- analyzing properties of simple geometric figures

Probability and Statistics

- constructing, reading, and interpreting simple graphs
- determining the likelihood of simple events

Reasoning and Communication

- solving multi-step problems

Grade 5

Number Concepts

- measuring length or finding the area of simple figures
- using appropriate computation or estimation strategies with understanding
- using the concept of place value
- modeling fractions and decimals with situations and pictures
- using estimation skills to approximate an answer

Patterns, Algebra, and Functions

- using algebraic reasoning
- recognizing and extending a variety of patterns

Geometry

- recognizing and transforming geometric figures
- analyzing properties of simple geometric figures

Probability and Statistics

- constructing, reading, and interpreting simple graphs
- determining the likelihood of simple events
- calculating and using the mean (average) of a set of values in meaningful context

Reasoning and Communication

- solving multi-step problems
- communicating mathematical arguments

Grade 8

Number Concepts

- using estimation skills to approximate an answer
- modeling fractions and decimals with situations and pictures
- determining the equivalence or relative sizes of fractions, decimals, percents, and exponential expressions
- applying the concepts of area and volume

Patterns, Algebra, and Functions

- representing concrete situations using graphs or variables
- recognizing, extending, or generalizing a variety of patterns
- solving simple equations using informal methods

Geometry

- transforming geometric figures
- analyzing properties of geometric figures

Probability and Statistics

- interpreting a variety of statistical graphs
- determining the probability of events

Reasoning and Communication

- using mathematical reasoning to solve multi-step problems
- communicating mathematical arguments

Grade 10

Number Concepts

- using mathematical operations, including those involving exponents, roots, and matrices with understanding
- finding the area of regions or volumes of space shapes

Patterns, Algebra, and Functions

- using algebra to describe and analyze situations
- constructing and interpreting graphs
- solving equations and inequalities

Geometry

- analyzing and applying properties of geometric figures
- coordinate geometry
- applying right triangle relationships

Probability and Statistics

- determining the probability of events
- analyzing data and graphs

Reasoning and Communication

- using mathematical reasoning to solve multi-step problems
- communicating mathematical arguments

Teachers Utilizing Instructional Needs

For a teacher to best utilize the information in this part of the report we would recommend the steps below. A brief vignette of a discussion around the geometry standard is included to help illustrate the process.

1. Teachers from a standards grouping (i.e., K-3, 4-5, 6-8, 9-10/11) meet to review the comments and the related standards. It is highly desirable that all teachers within a grade cluster participate in the discussions.

A group of middle level mathematics teachers meet to examine the geometry comments triggered by their students. Teachers come prepared with the standards, their lesson plans, and their district curriculum guides.

2. Discuss the kinds of practices, assignments, teaching strategies, etc., that you are using, and whether or not those practices are in line with the standards and address the comments. Some suggestions are included in this guide.

Teachers examine the comments and the patterns by which they were triggered. In our hypothetical example 25% of the students triggered transforming geometric figures, and 60% triggered Analyzing properties of geometric figures. Teachers should discuss the significance of the results—in this instance it would appear that they have done a fairly good job addressing the need identified in the standards to “recognize, construct, and transform geometric figures.” However, it would also appear that some changes might be required if students were to improve at “analyzing properties of and discovering relationships among geometric figures.” Teachers should be guided through Mathematics Standard 8, spatial sense and geometry, in an attempt to see where their own curriculum addresses the parts of the standards that the test indicates need to be addressed.

3. Work through the reports discussing strengths and areas for improvement. If a school seems to have all the comments triggered at about the same rate, teachers should be encouraged to prioritize their efforts so they don't feel as if they have to do everything all at once. Be sure to talk about the kinds of activities that you feel would help students in the particular area(s) of the standards where they seem to need some help.

Teachers discuss the reasons why one of the bullets was triggered more often than the other. Was it a timing issue in the curriculum? Something the adopted text doesn't cover? etc. Is the conversation one that will require

teachers from the elementary or the high school and/or the district as well to ensure that materials covered at one level are built on at the next level rather than just repeated?

Or is it the way the material is being presented? Are students being asked to discover or investigate the properties, as opposed to just listing them to pass a quiz or test? If a close examination reveals that procedural rather than conceptual knowledge is being valued, what changes are needed to bring conceptual knowledge to the fore?

Also, teachers need to be reminded that no value judgments can or should be made from this information—this simply provides a starting point for the discussion that can help focus efforts over the coming year.

4. Go through each comment and the related standards in order to discuss what you might say to a parent whose child has had a particular comment triggered. The comments were intentionally written in teacher/standards language, which will be foreign to some parents, and they will need some clarification. Be prepared to explain to parents how you intend to address their concerns in your teaching practices

Teachers discuss the changes they intend to make as a result of the scores. For example, they recommend some adjustments to the curriculum by including more activities in geometry (e.g., investigations using computer software, to help students build conceptual knowledge.) Teachers point to those changes and identify that they either have been or will be made with the specific intent of helping the students in a particular area.

5. Meet regularly throughout the year to review their progress in teaching the standards, working with parents, etc.

Teachers remind themselves that change does not occur overnight, that help is available, and then work hard to track progress over time.

This kind of strategy should help you make the best use of the instructional needs data, particularly in terms of helping understand the standards and what they can do to help students perform at even higher levels. We would encourage you to peruse the data carefully as they make decisions about how and what to teach.

We would also encourage you not to expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in your hands as professionals who instruct students on a daily basis.

Ideas for reflection

Following is a list of broadly stated questions that you can ask as you reflect on the instructional needs reports in an attempt to help your students improve. As no two

schools are exactly alike, it is our hope that these questions will lead teachers and administrators to answers that are specific to the needs of their students.

- Are there areas of instruction that seem to require more attention than they are currently receiving? For example, are probability and statistics integrated into the ninth and tenth grade mathematics curriculum?
- Are the topics that seem to need additional attention actually taught? For example, do sixth and seventh grade teachers “get to” geometry?
- When topics are presented, does the mode of instruction fit the desired outcomes? For example, do all elementary level students “estimate and then measure” a variety of objects using standard and non-standard units?
- Do teacher questions during instruction elicit higher-order thinking about the mathematics?
- Are students required to explain their work on tests and quizzes in writing or by drawing graphs or charts? Are rubrics used to score student responses?
- Do students need more experience applying concepts in context? Are problem contexts used to promote access for diverse learning?

Parent-Teacher Conference Materials

Several recently published documents may be of value to you when meeting with parents about the test scores of their children:

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This guide is published by the Delaware PTA, and found in every school, community center, and library in Delaware. The guide can also be found on the web page of the Delaware PTA at: www.delawarepta.org. Particularly relevant sections of the handbook cover the following topics:

- Student learning
- Tips to motivate your children to do well in school
- Homework hints
- Help your child learn at home
- Making learning enjoyable
- Know your child’s learning style
- Activities to help your child as a reader

The handbook is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for parent-teacher conferences.

Parent’s Declaration of Responsibilities

This document is published by the Delaware PTA, and found in every school, community center, and library in Delaware. It can also be found on the web page of the

Delaware PTA at: www.delawarepta.org. Provided is information on how the parent and family can get involved in the education of their children. Topics covered include:

- Communication: Parent/Family Responsibilities and School Responsibilities
- Parenting: Parent/Family Responsibilities and School Responsibilities
- Student Learning: Parent/Family Responsibilities and School Responsibilities
- Volunteering: Parent/Family Responsibilities and School Responsibilities
- School Decision Making and Advocacy: Parent/Family Responsibilities and School Responsibilities
- Collaborating with the Community: Parent/Family Responsibilities and School Responsibilities

The document is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for parent-teacher conferences.

Principals Using Instructional Needs

Remember that the school level instructional needs comments report will indicate the number and percentage of students in the school for whom the comments were triggered. This means that the higher the percentage of students indicated as having a need, the more likely it is that additional instruction in that area of the standards will improve test scores.

Ideas for reflection

Following is a partial list of broadly stated questions that you and your teachers can ask and discuss as you reflect on the instructional needs in an attempt to help students improve. As no two schools are exactly alike, it is our hope that these questions will begin to lead principals and teachers to answers that are specific to the needs of their schools and students.

- Are there areas of instruction that seem to require more attention than they are currently receiving? For example, are probability and statistics integrated into the ninth and tenth grade mathematics curriculum?
- Are the topics that seem to need additional attention actually taught? For example, do six and seventh grade teachers “get to” geometry?
- When topics are presented, does the mode of instruction fit the desired outcomes? For example, do all elementary level students “estimate and then measure” a variety of objects using standard and non-standard units?
- Do teacher questions during instruction elicit higher-order thinking about the mathematics?
- Are students required to explain their work on tests and quizzes in writing or by drawing graphs or charts? Are rubrics used to score student responses?
- Do students need more experience applying concepts in context? Are problem contexts used to promote access for diverse learning?

For the principal to best utilize the information in this part of the report we would recommend the steps below. A brief vignette of a discussion around the geometry standard is included to help illustrate the process.

1. Gather together the teachers from a standards grouping (i.e., K-3, 4-5, 6-8, 9-10/11) to review the comments and the related standards. It is highly desirable that all teachers within a grade cluster participate in the discussions. The accountability system and the DSTP reflect a schools' degree of success at reaching the standards, which is much broader and more comprehensive than a single grade level.

For example, a principal or administrator could gather a group of middle level mathematics teachers to examine the geometry comments triggered by their students. Teachers should come prepared with the standards, their lesson plans, and their district curriculum guides.

2. Discuss the kinds of practices, assignments, teaching strategies, etc. that teachers are using, and whether or not those practices are in line with the standards and address the comments. Some suggestions are included in the subsequent sections of this guide.

Examine the comments and the patterns by which they were triggered. In our hypothetical example 25% of the students triggered transforming geometric figures, and 60% triggered Analyzing properties of geometric figures. Teachers should discuss the significance of the results—in this instance it would appear that they have done a fairly good job addressing the need identified in the standards to “recognize, construct, and transform geometric figures.” However, it would also appear that some changes may be required if students are to improve at “analyzing properties of and discovering relationships among geometric figures.” Teachers should be guided through Mathematics Standard 8, spatial sense and geometry, in an attempt to see where their own curriculum addresses the parts of the standards that the test indicates need to be addressed.

3. Work through the reports with the groups of teachers, discussing strengths and areas for improvement. All teachers should be reminded that year one of the DSTP is a baseline year and subsequently no value judgments about student performance should be made from test scores, although inferences about the possibilities for improvement are entirely justified. After that, however, if a school seems to have all the comments triggered at about the same rate, teachers should be encouraged to prioritize their efforts so they don't feel as if they have to do everything all at once. Be sure to talk about the kinds of activities that teachers feel would help students in the particular area(s) of the standards where they seem to need some help.

Discuss the reasons why one of the bullets was triggered more often than the other. Was it a timing issue in the curriculum? Something the adopted text doesn't cover? etc. Is the conversation one that will require teachers from the elementary or the high school and/or the district as well to ensure that

materials covered at one level are built on at the next level rather than just repeated?

Or is it the way the material is being presented? Are students being asked to discover or investigate the properties, as opposed to just listing them to pass a quiz or test? If a close examination reveals that procedural, rather than conceptual knowledge is being valued, what changes are needed to bring conceptual knowledge to the fore?

Also, teachers need to be reminded that no value judgments can or should be made from this information—this simply provides a starting point for the discussion that can help focus efforts over the coming year.

4. Have teachers go through each comment and the related standards in order to discuss what they might say to a parent whose child has had a particular comment triggered. The comments were intentionally written in teacher/standards language, which will be foreign to some parents, and they will need some clarification. Be prepared to explain to parents how you intend to address their concerns in your teaching practices

Teachers could discuss the changes they intend to make as a result of the scores. For example, schools might make some adjustments to the curriculum by including more activities in geometry, e.g., investigations using computer software, to help students build conceptual knowledge. Teachers could point to those changes and identify that they either have been or will be made with the specific intent of helping the students in a particular area.

5. Have teachers meet regularly throughout the year to review their progress in teaching the standards, working with parents, etc.

Remind the teachers that change does not occur overnight, that help is available, and then work hard to track progress over time.

This kind of strategy should help principals and teachers make the best use of the instructional needs information, particularly in terms of helping understand the standards and what can be done to help students perform at even higher levels. We would encourage principals and teachers to peruse the data carefully as they make decisions about how and what to teach.

We would also encourage administrators and teachers not to expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in the hands of the professionals who instruct students on a daily basis.

Superintendents and Boards of Education

Test scores are a **powerful tool when used properly** by the Chief School Officer and Boards of Education. They provide a measure of progress made and an indicator of priorities. In the beginning superintendents and school boards should find monitoring the mathematics scores of the schools in their district, as well as the statistics associated with the mathematics instructional needs useful information to drive decision making and resource allocation. This monitoring should be done over time. The best process is one where there is the wisest use of resources.

Caution must be used during the monitoring process. Reaction without thorough analysis of trend data and analysis of the underlying factors that are related to the scores trends would not be prudent. It should be a goal to treat the causes of low mathematics scores, and not the symptoms.

A process that is an excellent first step that can be used by districts seeking to improve achievement is **curriculum alignment**. This activity involves studying what is written about the curriculum, what is taught in the district's classrooms, and what is assessed or tested. District curriculum workers, principals, and teachers should analyze the instructional programs of the district and schools in regard to these elements and then take whatever steps are needed to bring the three into alignment. For example, if a study shows that by the end of a grade cluster, students are expected to be able to use tables and graphs to describe patterns in mathematics then all students must have opportunities to acquire those skills during that cluster.

For districts to conduct alignment activities in mathematics that center on Delaware's content Standards, they will need some documents that are available to all Delaware districts. Alignment teams will need:

- ***New Directions: State of Delaware Mathematics curriculum Framework, 1995;***
- ***Teacher's Desk Reference, Grades 6-8, 1998;*
and/or**
- ***Teacher's Desk Reference, Grades 9-12, 1999;***
- ***Delaware Student Testing Program Item Samplers, 1998, 1999 and 2000;***

The 1995 New Directions document forms the foundation on which the DSTP is based; however, it should be noted that the performance indicators for mathematics are essentially the same as those found in the frameworks, so that a district could use either in its alignment work. Of course, districts will want to include local curriculum documents in the study as well.

Standards-based alignment also poses a new issue to boards of education, superintendents, and other curriculum planners. In the days before standards, norm reference tests asked students to "identify", or "choose", or "match." This required factual learning and rarely asked students to apply what they were supposed to have

learned. The Delaware State Testing Program, grounded as it is in high standards for all learners, asks students, for example, to “analyze,” “evaluate,” “apply,” and more. To help students meet or exceed these high standards and to apply what they have learned requires classrooms in which problem solving, inquiry, and application are fostered. Often a concentration of instructional programs will help improve scores. This can be explored with principals and teachers in the district.

We would also encourage boards of education, administrators and teachers **not to** expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in the hands of the professionals who instruct students on a daily basis.

The 1995 New Directions document is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for parent-teacher conferences.

SECTION IV: UNDERSTANDING THE SCIENCE/ SOCIAL STUDIES REPORT

The Science and Social Studies Individual Report has four sections of information on student performance:

- A. Grade Tested and Test Date:
- B. The student's Performance Levels and scores on science and social studies;
- C. The science and social studies scaled scores for the student compared to other students tested at the same grade level in the school;
The average science and social studies scaled score for the school (for students tested at the same grade);
The average science and social studies scaled scores for the district (for students tested at the same grade);
The average science and social studies scaled scores for the State of Delaware (for students tested at the same grade);
- D. The student's points earned compared with the average points earned by other students tested at the same grade level in the school, district and state for each area within the science test: inquiry, physical science, earth science, and life science. The student's points earned compared with the average points earned by other students tested at the same grade level in the school, district and state for each area within social studies: civics, economics, geography, and history

Each section of the Science and Social Studies Individual Report is discussed.

A. Grade Tested and Test Date

Like the English Language Arts and Mathematics Report, this part of the score report provides general information about the administration of the test:

- The grade level (04, 06, 08, or 11) at which your student was tested is reported next to **Grade Tested**:
- The date your student took this test is listed behind **Test Date**:

Unlike the reading and mathematics score report, there are no national standardized tests in science and social studies that match the Delaware Content Standards, thus no national norms are available.

B. Performance Levels: Science and Social Studies

Performance Level Cut Point Development

During the summer of 2001 for grades 8 and 11 and winter of 2002 for grades 4 and 6, a group of teachers, administrators, parents, and organization or community members met under the guidance of Harcourt Educational Measurement, to develop the "Meets the Standard" and "Exceeds the Standard" cut points. The methodology used by judges for setting the cut points is referred to as "Item Mapping" by some measurement companies, and "Bookmarking" by other companies. This procedure required several groups of judges to examine a book of DSTP items arranged from the easiest to the most difficult and inserting "bookmarks" at the items they felt most strongly defined where a cut should be placed. Each group of judges worked with a single test at a single grade. Once the judges' recommendations for the "Meets the Standard" and "Exceeds the Standard" performance level had been finalized, the Department of Education, with the technical assistance of Harcourt Educational Measurement, calculated the cut points for the "Below the Standard" and "Well Below the Standard" levels, and the cut point for the "Distinguished" performance level.

The five performance levels in both science and social studies are consistent with Delaware's accountability law. The following describe each level:

<u>Performance Level</u>		<u>Described as:</u>
Level 5	Distinguished Performance	Exemplary
Level 4	Exceeds the Standard Performance	Very Good
Level 3	Meets the Standard Performance	Good
Level 2	Below the Standard Performance	Needs Improvement
Level 1	Well Below the Standard Performance	Needs Significant Improvement

Cut Points for Science

The DSTP Science scale scores by performance levels were as follows:

	Well Below the Standard	Below the Standard	Meets the Standard	Exceeds the Standard	Distinguished Performance
Grade 4	285 or less	286 to 299	300 to 324	325 to 335	336 or more
Grade 6	284 or less	285 to 299	300 to 324	325 to 334	335 or more
Grade 8	279 or less	280 to 299	300 to 324	325 to 337	338 or more
Grade 11	281 or less	282 to 299	300 to 324	325 to 334	335 or more

Cut Points for Social Studies

The DSTP Social Studies scale scores by performance levels were as follows:

	Well Below the Standard	Below the Standard	Meets the Standard	Exceeds the Standard	Distinguished Performance
Grade 4	284 or less	285 to 299	300 to 324	325 to 336	337 or more
Grade 6	285 or less	286 to 299	300 to 324	325 to 334	335 or more
Grade 8	281 or less	282 to 299	300 to 324	325 to 334	335 or more
Grade 11	275 or less	276 to 299	300 to 324	325 to 336	337 or more

C. Score Comparisons of Grade Tested: Science/Social Studies

This section contains score comparisons of the individual student's science and social studies scores against the students tested at the same grade level in the school. For science, your student's score is found on the line between the lowest scale score and the maximum scale score. You can also compare the student's performance to the performance of the students tested at the same grade level in the district and in the state. The scale on the right is the social studies score and is structured similarly.

The Individual Student's Score

In this section you can see how well the student is performing as compared to the students tested at the same grade level in the student's school by locating the position of the student's score on the scale. You can also compare the student's performance to the performance of the students tested at the same grade level in the district and in the state.

The School's Score

You can see how the students tested at the same grade level in the school are performing compared to the students tested at the same grade level in the district or state by examining the position of the school's score on the scale.

The District's Score

Also, you can see how the students tested at the same grade level in the district are performing compared to students statewide who took the same grade level test by examining the position of the district's score on the scale.

The State of Delaware's Score

In addition, you can see how the students who took the science and social studies tests at the same grade level in the State of Delaware are performing by examining the position of the state's score on the scale.

D. Science and Social Studies Content Areas

Science

This section provides feedback that reflects the number of items the student answered correctly in each of the following areas of science: inquiry, physical science, earth science, and life science. Listed in the left hand column is the number of points possible in each area. The second column shows the number of points the student scored in each area. The corresponding columns give the average number of points scored by other students tested at the same grade level in the school, district, and state. The classroom teacher can give you concrete suggestions on how you might help the student improve performance in any area in which the student may have a low score.

Social Studies

This section of the report provides feedback that depends on the number of items the student answered correctly in each of the following areas of social studies: civics, economics, geography, and history. Listed in the left hand column is the number of points possible in each area. The second column shows the number of points the student scored in each area. The corresponding columns give the average number of points scored by other students tested at the same grade level in the school, district, and state. The classroom teacher can give you concrete suggestions on how you might help the student improve performance in any area in which the student may have a low score.

Helping Students Do Better in Science

Ideas for reflection

Following is a partial list of broadly stated questions that you can ask and discuss as you reflect on the science test performance analysis. As no two classrooms are exactly alike, it is our hope that these questions will begin to lead teachers to answers that are specific to the needs of their students.

- Are there areas that are not actually being taught?
- Are there areas of instruction that need more attention than they are currently receiving?
- When areas are presented, does the mode of instruction fit the desired outcomes?
- During instruction, do teachers ask for explanations and/or require students to provide evidence about the science concepts taught?
- Are students required to collect, organize, and analyze data?
- Do students need more experience applying concepts across earth, physical, and life sciences?
- Are test questions administered in class similar to those on the DSTP? (See the item sampler for science on the DOE website.)

Utilizing the information: Teachers and Principals

To best use the information we would recommend the steps below:

1. Meet with other teachers from a standards grouping (i.e., K-3, 4-5, 6-8, 9-12) to review the analyses. It is highly desirable that all teachers within a grade cluster participate in the discussions. The accountability system and the DSTP reflect the degree of success at reaching the standards, which are much broader and more comprehensive than a single grade level.
2. Discuss the kinds of practices, assignments, teaching strategies, etc. that the teachers are using, and whether or not those practices are in line with the standards and address the comments.
3. Work through the analyses with the groups of teachers, discussing strengths and areas for improvement. Teachers should be encouraged to move forward and to prioritize their efforts so they don't feel as if they have to do everything all at once. Be sure to talk about the kinds of activities that you feel would help students in the particular area(s) of the standards where they seem to need some help.
4. Go through each analyzed area and their related standards to discuss what you might say to a parent whose child has had a problem in that area. You should be prepared to explain to parents how they intend to address parental concerns in their teaching practices.
5. Meet regularly throughout the year to review progress in teaching the standards, working with parents, etc.

This kind of strategy should help you make the best use of the test performance analysis data, particularly in terms of helping understand the standards and what you

can do to help students perform at even higher levels. We would encourage everyone to peruse the data carefully as they make decisions about how and what to teach. We would also encourage you not to expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not.

Helping Students Do Better in Social Studies

Ideas for reflection

Following is a partial list of broadly stated questions that you and other teachers can ask and discuss as you reflect on the social studies test performance analysis. As no two classrooms are exactly alike, it is our hope that these questions will begin to lead principals and teachers to answers that are specific to the needs of their students.

- Are there content areas that seem to require more attention than they are currently receiving?
- Are there content areas that could be integrated into social studies instruction?
- Does the mode of instruction fit the desired outcomes?
- Do questions during instruction elicit higher-order thinking as reflected in the social studies standards?
- Are students required to think using social studies data, such as graphs, maps, charts, artifacts, and documents?
- Are students required to explain their work on tests and quizzes in writing or by drawing diagrams, graphs, or charts? Are rubrics used to score students responses?
- Do students need more experience applying concepts in context? Are problem contexts used to promote access for diverse learning?
- Do you administer tests that require application of knowledge?
- Do you administer test questions in class similar to those on the DSTP? (See the item sampler for social studies on the DOE website.)

Using the information: Teachers and Principals

To best utilize the information we would recommend the steps below:

1. Meet with other teachers from a standards grouping (i.e., K-3, 4-5, 6-8, 9-12) to review the analyses. It is highly desirable that all teachers within a grade cluster participate in the discussions. The accountability system and the DSTP reflect the degree of success at reaching the standards, which are much broader and more comprehensive than a single grade level.
2. Discuss the kinds of practices, assignments, teaching strategies, etc. that the teachers are using, and whether or not those practices are in line with the standards and address the comments.
3. Work through the analyses with the groups of teachers, discussing strengths and areas for improvement. Teachers should be encouraged to move forward and to prioritize their efforts so they don't feel as if they have to do everything all at once. Be sure to talk about the kinds of activities that teachers feel would help

students in the particular area(s) of the standards where they seem to need some help.

4. Go through each analyzed area and their related standards to discuss what you might say to a parent whose child has had a problem in that area. You should be prepared to explain to parents how they intend to address parental concerns in their teaching practices.
5. Meet regularly throughout the year to review progress in teaching the standards, working with parents, etc.

This kind of strategy should help you make the best use of the test performance analysis data, particularly in terms of helping understand the standards and what you can do to help students perform at even higher levels. We would encourage everyone to peruse the data carefully as they make decisions about how and what to teach. We would also encourage you not to expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not.

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Several recently published documents may be of value to you when meeting with parents about the test scores of their sons or daughters:

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- Making learning enjoyable
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- Communication: Parent/Family Responsibilities and School Responsibilities
- Parenting: Parent/Family Responsibilities and School Responsibilities
- Student Learning: Parent/Family Responsibilities and School Responsibilities
- Volunteering: Parent/Family Responsibilities and School Responsibilities
- School Decision Making and Advocacy: Parent/Family Responsibilities and School Responsibilities
- Collaborating with the Community: Parent/Family Responsibilities and School Responsibilities

Superintendents and Boards of Education

Test scores are a **powerful tool when used properly** by the Chief School Officer and Boards of Education. They provide a measure of progress made and an indicator of priorities. In the beginning, superintendents and school boards should find monitoring the science and social studies scores of the schools in their district, as well as the statistics associated with the science and social studies test performance analysis useful information to drive decision making and resource allocation. This monitoring should be done over time. The best process is one where there is the wisest use of resources. Caution must be used during the monitoring process. Reaction without thorough analysis of trend data and analysis of the underlying factors that are related to the scores trends would not be prudent. It should be a goal to treat the causes of low science or social studies scores, and not the symptoms.

A process that is an excellent first step that can be used by districts seeking to improve achievement is **curriculum alignment**. This activity involves studying what is written about the curriculum, what is taught in the district's classrooms, and what is assessed or tested. District curriculum workers, principals, and teachers should analyze the instructional programs of the district and schools in regard to these elements and then take whatever steps are needed to bring the three into alignment. For example, if a study shows that by the end of a grade cluster, students are expected to be able to use tables and graphs to describe patterns in science or social studies, then all students must have opportunities to acquire those skills during that cluster.

For districts to conduct alignment activities in mathematics that center on Delaware's content Standards, they will need some documents that are available to all Delaware districts. Alignment teams will need:

- ***New Directions: State of Delaware Social Studies Curriculum Framework, 1995;***
- ***New Directions: State of Delaware Science Curriculum Framework, 1995;***
- ***Teacher's Desk Reference, Grades 6-8, 1998;*
and/or**
- ***Teacher's Desk Reference, Grades 9-12, 1999;***
- ***Delaware Student Testing Program Item Samplers, 1998, 1999, and 2000;***

The 1995 New Directions document forms the foundation on which the DSTP is based; however, it should be noted that the performance indicators for science and social studies are essentially the same as those found in the frameworks, so that a district could use either in its alignment work. Of course, districts will want to include local curriculum documents in the study as well.

Standards-based alignment also poses a new issue to boards of education, superintendents, and other curriculum planners. In the days before standards, norm reference tests asked students to “identify”, or “choose”, or “match.” This required factual learning and rarely asked students to apply what they were supposed to have learned. The Delaware State Testing Program, grounded as it is in high standards for all learners, asks students, for example, to “analyze,” “evaluate,” “apply,” and more. To help students meet or exceed these high standards and to apply what they have learned requires classrooms in which problem solving, inquiry, and application are fostered. Often a concentration of instructional programs will help improve scores. This can be explored with principals and teachers in the district.

We would also encourage boards of education, administrators and teachers **not to** expect easy solutions, quick fixes, or step-by-step approaches that presume the test has been designed to solve problems—it has not. The DSTP was specifically designed to help identify student strengths and weaknesses, but working to enhance their strengths and to overcome their weaknesses is best placed in the hands of the professionals who instruct students on a daily basis.

The 1995 New Directions document is considered a public document; therefore, it can be downloaded and/or unlimited copies can be made of various sections for parent-teacher conferences.

SECTION V: Understanding the Work Sampling Report

To help parents and guardians track the continuing progress of their kindergarten and grade 1 children, the Delaware Student Testing Program has initiated an observational assessment for kindergarten and first grade students. The Delaware Department of Education adopted an assessment for these grade levels based on Samuel Meisels' Work Sampling System®. This developmentally appropriate tool, aligned with Delaware content standards, requires teachers in all Delaware kindergarten and first grade classrooms to observe their students during classroom activities and gather student work. Based on these observations and student work, teachers make evaluation decisions by comparing this data to standards outlined in a set of Developmental Guidelines.

The Work Sampling Individual Report has up to five sections of information on student performance:

- A. Grade Tested and Collection Period Ending Date;
- B. The student's English Language Arts Progress;
- C. The student's Mathematics Progress;
- D. The student's Personal and Social Development Progress (This information was collected at the option of the school district.)
- E. The student's Individual Improvement Plan activities for reading.

Each section of the Work Sampling Individual Report is discussed below.

A. Grade Tested and Collection Period End Date

This part of the score report provides general information about the collection of the work sampling data:

- The grade level at which the student was assessed is reported next to **Grade Tested**:
- The work sampling assessment relies on the classroom teacher of each student. This classroom teacher begins to observe their students during classroom activities and gather student work soon after the school year begins. This collections continues throughout the school year until the date listed after **Collection Period End Date**:

B. English Language Arts Progress

The student can achieve a “proficient,” “in process,” or “not yet” in each of the areas of English Language Arts – Listening; Speaking; Reading; Writing – and the total of English Language Arts.

- **Proficient** – The student has clearly mastered and usually or always demonstrates the skills.
- **In Process** -- The student is still mastering and sometimes demonstrates the skills.
- **Not Yet** – The student has not yet mastered or demonstrated the skills.

If a “1” appears next to the checkmark for reading, the school is required to develop an Individual Improvement Plan for Reading for the child. If a “2” appears next to the checkmark for reading, the school may develop an Individual Improvement Plan for Reading for the child.

C. Mathematics Progress

The student can achieve a “proficient,” “in process,” or “not yet” in each of the areas of Mathematics – Mathematical Processes; Number & Operations; Patterns, Relationships, & Functions; Geometry & Spatial Sense; Measurement; Data Analysis & Probability – and the total of Mathematics. If a “3” appears next to the checkmark for mathematics, the school may develop an Individual Improvement Plans for Mathematics for the child.

D. Personal and Social Development Progress

If the school district opted to collect the information, the student can achieve a “proficient,” “in process,” or “not yet” in each of the areas of personal and social development – Self Concept; Self Control; Approach to Learning; Interaction with Others; Social Problem-Solving.

E. Individual Improvement Plan Activities

For reading, if an Individual Improvement Plan is required or recommended for the student, the report will list the reading activities targeted for the student in order to help the child meet the standards when tested at grade 3.

Possible Kindergarten Activities

- Showing interest in books and reading-related activities.
- Showing some understanding of concepts of print.
- Knowing letters, sounds, and their relationships.
- Comprehending and responding to fiction and nonfiction text.

Possible Grade 1 Activities

- Showing interest in books and reading.
- Showing understanding about concepts of print.
- Demonstrating phonemic awareness.
- Decoding unfamiliar words.
- Using strategies to construct meaning from print
- Comprehending and interpreting fiction and nonfiction text.

SECTION VI:

Understanding the Diploma Index

This section contains the following information:

- Details on how to access the diploma indices for students who were tenth graders during the March 2002 testing window for the Delaware Student Testing Program (DSTP)
- How diploma indices are calculated
- Procedures for registering students for the October 2002 Grade 10 Retest
- Planning for retests

A. Diploma Indices

The diploma indices for students who were tested as tenth graders or who participated in a grade 10 retest are now available in the DSTP on-line reports to registered users. The diploma index information is contained in the student listings as well as on the student profiles. There is also a “diploma index report” that can be printed (a sample diploma index report is in the Appendix). When notifying parents of the student’s diploma index, school administrators may download the diploma index listing and merge the diploma index fields into a letter to the parents or may choose to print the diploma index reports from the DSTP on-line reports and send them with a cover letter (a sample letter for parents is on page 40).

Calculating Diploma Indices

To calculate the diploma index, take the student’s (Reading Performance Level X .40) + (Writing Performance Level X .20) + (Mathematics Performance Level X .40). The only additional requirement for a distinguished diploma is that none of the student’s performance levels can be below a 3. Note that if a student has no performance level information for one or more content areas (either through an approved exemption or due to student absence), then that content area(s) will have a “zero” contribution to the calculation of the total index, i.e., the index will be calculated based on the performance level information available.

The diploma index ranges from 0.0 (for a student who has no valid performance levels for any of the three content areas) to 5.0 (for a student who receives a performance level 5 in all three content areas).

B. Retest Registration

DSTP Grade 10 Retests are offered three times a year. After spring testing the first retest opportunity is in the summer. The second opportunity is in October during the same time frame as the DSTP test administration for grade 4 and 6 students in science and social studies. The third retest opportunity is concurrent with the regular tenth grade testing. The summer retest may be at a specified location in the school district. The October and March sessions will be at the student's current high school.

Students may choose to re-take either or both the reading and the mathematics tests. The student wishing to re-take the writing portion will also be **required** to re-take the reading test so that the text-based writing task is included. Students may retest as often as they wish up to five years after graduation. The registration form is set up on-line; the school test coordinator and/or his/her designee will validate and enter retest registrations.

The registration form for students wishing to re-take the Grade 10 test is now available online to school personnel. The school test coordinator and/or his/her designee (e.g., guidance counselor[s]) will help students register via the Internet. Students may be required to show proof of identification upon sitting for the test and should be made aware of this requirement when they are registering for the re-take.

C. Planning for Retests

The test materials needed for the Grade 10 retests will be mailed to school districts for summer administrations and to high schools for October and March administrations.

There should be one test administrator for approximately every 25 students participating in the retest (not including the test administrators needed for students with accommodations who may be testing one-on-one or in small groups). Test administrators will need to attend a training session prior to the test administration and be prepared to commit to five days for administering the test.

APPENDIX: SAMPLE REPORTS

Following are samples of the various reports from the 2001 administration of the DSTP. These reports **do not contain real data**. The reports included are:

1. English Language Arts Individual Report (Reading and Writing) – DSTP 1 Sample
2. English Language Arts Individual Report (Reading and Writing) – DSTP 2 Sample
3. Mathematics Individual Report – DSTP 1 Sample
4. Mathematics Individual Report – DSTP 2 Sample
5. Science and Social Studies Individual Report
6. Work Sampling Individual Report
7. Diploma Index Report
8. DSTP On-line Reports
9. Score Definitions
10. Normal Curve/Normal Curve Equivalents/Stanines

2003 DELAWARE STUDENT TESTING PROGRAM

English Language Arts Individual Report for

JAMES Q. DOE

Student ID#: 000000

GRADE TESTED: 5B
 TEST DATE: 03/11/03
 SATY LEVEL/FORM: E2/T
 SATY NUMBER: 1993 PD 14

SCHOOL: NEWTOWN CLASS - 000
 DISTRICT: NEWTOWN - 00

PERFORMANCE LEVELS

This test is designed to measure your child's progress in terms of the Delaware Content Standards. The Reading and Writing performance of this student falls from one of five levels.

Performance Levels are:

Reading Level and Score	Writing Level and Score
Exceeds the standard	Exceeds the standard
Meets the standard	Meets the standard
Approaches the standard	Approaches the standard
Below the standard	Below the standard
Well below the standard	Well below the standard

Exceeds the standard

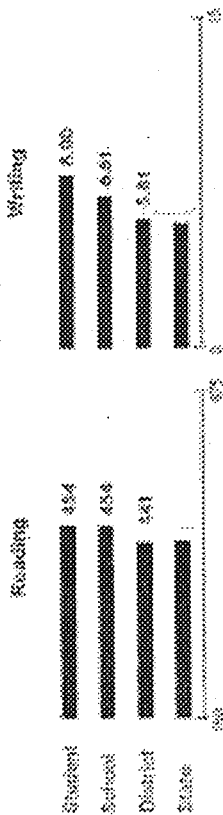
Meets the standard 454 5.00

Approaches the standard

Below the standard

Well below the standard

SCORE COMPARISONS OF GRADE TESTED



Certain items on the Reading part of the test were administered to a national sample of students. The percentage below represents how your child performed on those items compared to other students in the same grade throughout the country.

INSTRUCTIONAL NEEDS

To improve performance in **READING**, your child should work on:

- Improving reading fluency by reading aloud regularly to build on reading skills.
- Improving reading comprehension by using strategies to monitor understanding.
- Improving reading comprehension by using strategies to monitor understanding.
- Improving reading comprehension by using strategies to monitor understanding.

To improve performance in **WRITING**, your child should work on:

- Improving writing skills by writing regularly to build on writing skills.
- Improving writing skills by using strategies to monitor understanding.
- Improving writing skills by using strategies to monitor understanding.
- Improving writing skills by using strategies to monitor understanding.

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Page 11 of 12

2003 DELAWARE STUDENT TESTING PROGRAM

English Language Arts Individual Report for

JOHN BEE

Student ID# 600001

GRADE TESTED: 04
 TEST DATE: 08/08
 SATS LEVEL/FORM: 117
 SATS NORMS: 1997 PD 06



SCHOOL: NEWTOWN ELDER 100
 DISTRICT: NEWTOWN 100

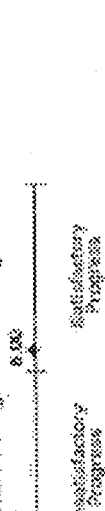
PROGRESS TOWARDS THE STANDARDS

This test is designed to measure your child's progress in terms of the Delaware Content Standards.

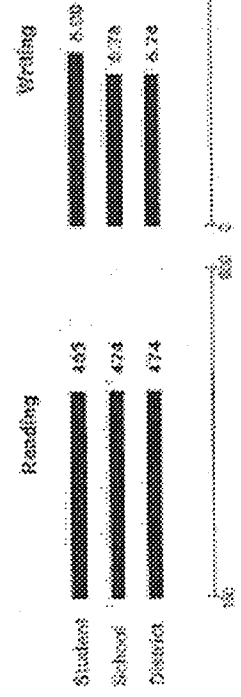
Your Child's Progress in Reading:



Your Child's Progress in Writing:



SCORE COMPARISONS OF GRADE TESTED



Parents receive the Reading part of the test when administered to a national sample of students. The percentage below represents how your child performed on these items compared to other students in the same grade throughout the country.

INSTRUCTIONAL NEEDS

To improve performance in READING, your child should work on:

- identifying what is important in a text and using that information to answer questions
- determining meaning by using context and background knowledge
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used

To improve performance in WRITING, your child should work on:

- identifying what is important in a text and using that information to answer questions
- determining meaning by using context and background knowledge
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used
- recognizing evidence to support conclusions about a text and analyzing how that evidence is used

COPY 01

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 P10030000-178203-00-0001-176-0

2003 DELAWARE STUDENT TESTING PROGRAM

Mathematics Individual Report for:

JOHN DOE
Student ID#: 12345678

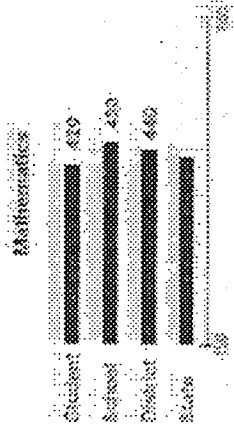
GRADE TESTED: 05
TEST DATE: 03/2003
SAV9 LEVEL/FORM: 001
SAV9 NUMBER: 00210103

PERFORMANCE LEVELS

This test is designed to measure your child's progress in terms of the Delaware Content Standards. The Mathematics performance of this student falls into one of five levels:

Performance Levels are:	Mathematics Level and Score
Exceeds the standards	
Meets the standards	✓ 420
Below the standards	
Very Below the standards	

SCORE COMPARISONS OF GRADE TESTED



Customize the Mathematics part of the test based on administration of individual students. The percentage below represents how your child performed on these topics compared to other students in the same grade throughout the state.

INSTRUCTIONAL NEEDS

To improve performance in MATHEMATICS, your child should work on:

Number Concepts
 1. ...
 2. ...
 3. ...

[Large empty box for additional notes or observations]

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2003 DELAWARE STUDENT TESTING PROGRAM

Mathematics Individual Report for

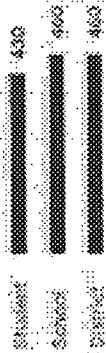
JOHN DOE

Student ID: 12345678

GRADE TESTED: 5th
 TEST DATE: 03/20/03
 SKANS LEVEL/FORM: 20/1
 SAID NORMS: 1981 P2 1A

SCORE COMPARISONS OF GRADE TESTED

Mathematics



PROGRESS TOWARDS THE STANDARDS

This test is designed to measure your child's progress in terms of the Delaware Content Standards.

Your Child's Progress in Mathematics:



Caution: Items on the Mathematics part of the test were administered to a national sample of students. The percentages below represent how your child performed relative to that sample, not other students in the same grade throughout the country.

INSTRUCTIONAL NEEDS

- To improve performance in MATHEMATICS, your child should work on:
 - Number Concepts
 - able to perform operations involving whole numbers, fractions, decimals, and integers.
 - Geometry
 - classifying and measuring geometric figures.
 - Probability and Statistics
 - reading, interpreting, and describing graphs, statistical reports.
 - summarizing the distribution of single events.
 - Reasoning and Communication
 - communicating mathematical relationships.

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2002 DELAWARE STUDENT TESTING PROGRAM

Science & Social Studies Individual Report for

JOHN DOE

Student ID#: 000000

3.

SCHOOL: NEWTOWN ELEM - 000
DISTRICT: NEWTOWN - 00

GRADE: 05
TEST DATE: 05/01/02

PERFORMANCE LEVELS

This test is designed to measure your child's progress in terms of the Delaware Content Standards. The Science and Social Studies performance of this student falls into one of the three levels:

Performance Levels and Scores
 Exceeds the standard Meets the standard 329 Approaches the standard 304

Science Level and Score: 302 288 266 244

Social Studies Level and Score: 306 297 272 259

SCORE COMPARISONS OF GRADE-TENIED

Science

Student: 302

School: 288

District: 266

State: 244

Social Studies

Student: 306

School: 297

District: 272

State: 259

CONTENT AREAS

SCIENCE

Content Area	Total Points Possible	Student Points Earned	Average Points Earned School District	Average Points Earned State
Inquiry	11	8	6.4	5.3
Physical Science	19	8	5.2	4.1
Earth Science	16	9	5.6	7.8
Life Science	22	11	6.2	9.5

SOCIAL STUDIES

Content Area	Total Points Possible	Student Points Earned	Average Points Earned School District	Average Points Earned State
Civics	17	6	6.0	6.5
Economics	17	9	6.8	7.2
Geography	17	9	6.8	7.9
History	17	9	6.3	7.3

COPY 03

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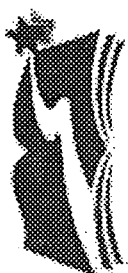
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6. Work Sampling Individual Report

2003 DELAWARE STUDENT TESTING PROGRAM

Work Sampling Individual Report for
TRONDS JONES
 Student ID# 002803

GRADE TESTED: 01
 COLLECTION: 01/1999
 PERIOD END DATE: 01/1999



SCHOOL: NEWTOWN ELEM / 001
 DISTRICT: NEWCASTLE / 00

English Language Arts	Not Yet in Process	Proficient	Mathematics	Not Yet in Process	Proficient	Reading and Social Development	Not Yet in Process	Proficient
Listening	✓		Mathematical Processes	✓		Self Concept	✓	
Speaking	✓		Number & Operations		✓	Self Control		✓
Reading	✓		Patterns, Relationships, & Functions		✓	Approach to Learning		✓
Writing		✓	Geometry & Spatial Sense	✓		Interaction with Others		✓
English Language Arts Summary		✓	Measurement		✓	Social Problem-Solving		✓
			Data Analysis & Probability	✓				
			Mathematics Summary		✓			

Information was collected for these areas of the system of the school district.

This report is based on limited observation of the student.

- 3 An Individual Improvement Plan for Reading is required.
- 4 An Individual Improvement Plan for Mathematics is recommended.

Your child's individual improvement plan in Reading should include work on:

- ✓ Showing interest in books and reading.
- ✓ Showing understanding about concepts of print.
- ✓ Demonstrating independent awareness.
- ✓ Showing appropriate words.
- ✓ Using strategies to substitute meaning from print.
- ✓ Comprehending and summarizing fiction and nonfiction text.

KEY

Proficient --- The child has mastery, consistent and usually or always demonstrates the skills.

In Process --- The child is still mastering and sometimes demonstrates the skills.

Not Yet --- The child has not yet mastered or demonstrated the skills.

CODE: 03

Please see your child's teacher for more information. Form #10-17789-00-000001-00000000
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7. Diploma Index Report

Delaware Department of Education
Diploma Index

Name:
School:
District:
Test Year: 2002
Test Name: BSTP I
Test Season: Spring
Test Grade: 10

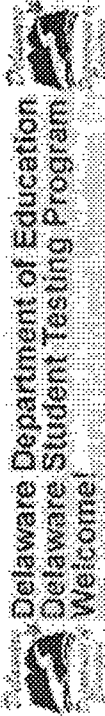
Diploma Index Calculation

Content	Performance Level	Times	Weight	Score	Sub-Index
Reading	1	X	0.4	=	0.4
Math	3	X	0.4	=	1.2
Writing	2	X	0.2	=	0.4
Diploma Index:					2
Eligible for:					Basic Diploma

Notes:
1. Diploma Index reports a scaled score from 0 to 5.0 in increments of 0.2. A score of 1.0 or below indicates a grade of 1.0 and no performance level has been assigned. A score of 1.2 or above indicates a grade of 2.0 and a performance level has been assigned.
2. Sub-indexed diploma: Scores 3.0 and 3.5 for a diploma of standard and below 3.0 for a basic diploma.
3. Distribution of Performance Levels: 1 = achievement 4 = exceeds the standard 3 = meets the standard 2 = below the standard 1 = well below the standard.

Print Close

8. DSTP On-line Reports

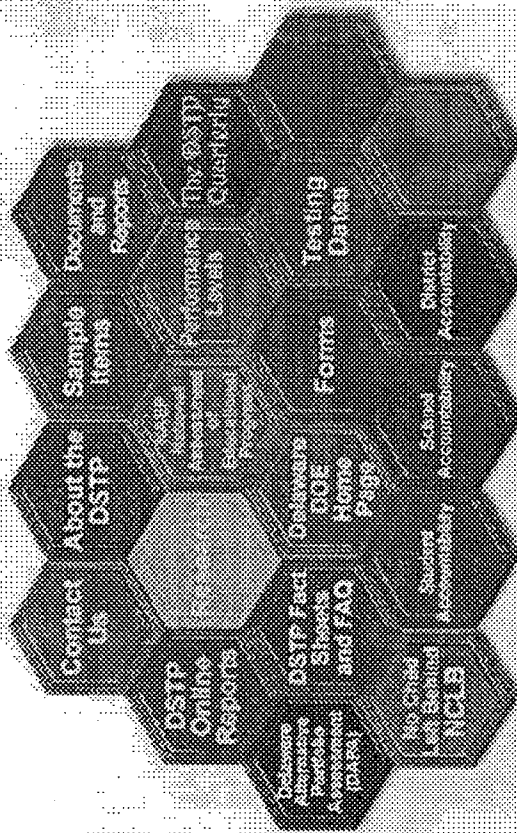


Welcome to the Delaware Student Testing Program (DSTP).
 Access the DSTP to follow the initiative to measure how
 well our students are prepared relative to the Delaware
 Content Standards in English language arts, mathematics,
 science, and social studies. DSTP is the responsibility of the
 Assessment and Analysis Group at the Delaware Department
 of Education.

NEW TO THIS SITE

- 1 Delaware's Formative Assessment for Limited English Proficient Students (FLS), ALTIMSTRATE, and Interpretation Manual
- 2 Interpretive Guide to Help Parents Understand Student's DSTP Test Results for Reading, Writing, and Mathematics
- 3 Interpretive Guide to Help Parents Understand Student's DSTP Test Results for Reading, Writing, and Mathematics
- 4 Interpretive Guide to Help Parents Understand Student's DSTP Test Results for Science and Social Studies
- 5 Interpretive Guide to Help Parents Understand Student's DSTP Test Results for Science and Social Studies
- 6 DSTP-Quantile Learning

Toll Free DSTP Hotline
 1-877-634-3787



Last updated: June 23, 2003
 Contact your school district regarding DSTP test scores and test results regarding DSTP web page issues and technical assistance. For more information regarding DSTP, visit our website at www.doe.k12de.us.
 This page has been viewed 24108 times since June 8, 2001.

SCORE DEFINITIONS

RAW SCORE: A raw score is the number of questions answered correctly by a student or item.

USES: Raw scores are used to convert to the various scaled means.

SCALED SCORE: Scaled scores represent approximately equal units on a continuous scale, using numbers that range from 1 through 99. Scaled scores facilitate conversion to other score types and are suitable for studying change in performance over time. When scaled scores are equal, test takers have the same level of ability. When scaled scores are equal, but from two different tests, they are not equal.

USES: Scaled scores have the advantage of representing approximately equal units on a continuous scale. Thus, a difference of 5 points between two students' scaled scores represents the same amount of difference in test scores whatever it occurs on the scale. Once a raw score has been converted to the scaled score, it is not necessary to be concerned with the range of the test that was taken when the percentile rank, stanine, or grade equivalent for that score is obtained. This means scaled scores consistently indicate the same level of ability. This means scaled scores consistently indicate the same level of ability for comparing scores when different levels of the test have been administered and for studying change in performance over time.

NATIONAL PERCENTILE RANK: National percentile ranks indicate the relative standing of a student in comparison with other students in the same grade in the nation (test-taker) group who took the test at a comparable time. Percentile ranks range from a low of 1 to a high of 99, with 50 denoting average performance for the grade. The percentile rank corresponding to a given score indicates the percentage of students in the same grade obtaining scores equal to or less than that score.

USES: Percentile ranks are useful for comparing a student's performance on a particular measure relative to the performance of other students. Percentile ranks are also useful for comparing a student's performance across content areas in a score profile.

NATIONAL STANINE: Stanines are scores that range from a low of 1 to a high of 9, with 5 denoting average performance. National stanines, like national percentile ranks, indicate a student's relative standing in the comparison group. However, since stanines represent approximately equal units of ability, they are particularly useful for comparing a student's scores across subjects in a student profile.

USES: Because of their equal-interval property (where the difference between stanines 7 and 8 represents about the same difference in ability as

the difference between stanines 5 and 7), stanines make it easy to identify broad performance categories. Stanine scores of 1, 2, and 3 are usually considered to reflect below-average performance; stanines 4, 5, and 6 are generally thought of as averages; and stanines 7, 8, and 9 are above average.

GRADE EQUIVALENT: A grade equivalent is a score that represents the average performance of students listed in a given month of the school year. The grade equivalent scale ranges from K-0 (beginning kindergarten) to 12.0 and extends above 12.0 (advanced high school level). The number to the left of the decimal point refers to the grade for which the score is typical, and the number to the right of the decimal point represents the month of the school year, or one school month.

USES: Grade equivalents are used most extensively in comparing student performance with a national average across grades, levels, and forms of a test. They can also be used to interpret the performance of groups of students.

NORMAL CURVE EQUIVALENTS: The Normal Curve equivalent (NCE) is a scaled score with a mean value and standard deviation, such that NCE scores of 1, 68 and 95 correspond to percentile ranks of 1, 80, and 99, respectively.

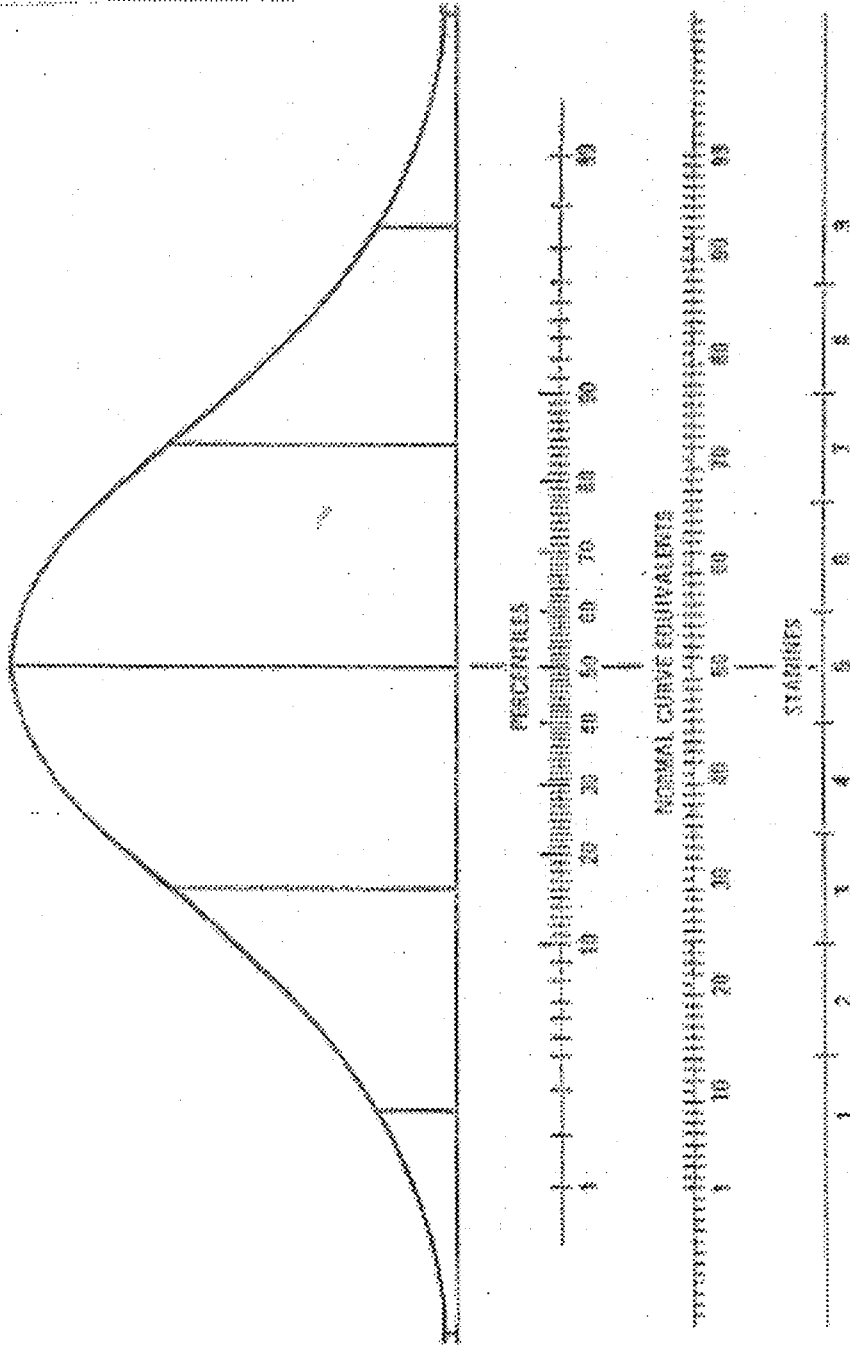
USES: Normal Curve Equivalents were developed as a way of reporting achievement in the evaluation of local programs. Normative data developed for the score were used for a score that combined the advantages of the other score types and had none of the disadvantages, i.e., a score that was representative (the percentile rank), could be used in comparisons (as with scaled scores and stanines), compared readily with test stanines, and was more interpretable than scaled scores.

ACHIEVEMENTABILITY COMPARISON: An Achievementability Comparison (AAC) is a relative value of achievement and test on ability test as administered concurrently. The AAC measures a student's performance on each subject and high score is the achievement test in comparison to other students taking the same grade stanine on the ability test. An AAC range of "High" (H) indicates the top 20% of the comparison group; "Low" (L), the lowest 20%; and "Median" (M), the middle 60%.

USES: The AAC score allows a teacher to identify a skill area to need of additional instruction. If, for example, a student has an AAC of "Low" for a given subject, the instruction the achievement test for that subject is low in comparison to that of other students of the same measured ability.

10. Normal Curve/Normal Curve Equivalents/Stanines

NORMAL CURVE



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Office of Educational Research and Improvement (OERI)
National Library of Education (NLE)
Educational Resources Information Center (ERIC)*



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