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Introduction

NECAP Background
The New England Common Assessment Program (NECAP) is the result of collaboration among New Hampshire, Rhode Island and Vermont to build a set of assessments for grades 3 through 8 to meet the requirements of the No Child Left Behind Act (NCLB). The states decided to work together for three important reasons:

- Working together brings together a team of assessment and content specialists with experience and expertise greater than any individual state.
- Working together provides the capacity necessary for the three states to develop quality, customized assessments consistent with the overall goal of improving education.
- Working together allows the sharing of costs in the development of a customized assessment program of a quality that would not be feasible for any individual state.

Document Purpose
The primary purpose of this document is to support local educators’ use of test data from the October 2006 administration of the New England Common Assessment Program (NECAP) tests. This document describes and explains the information included in the following NECAP reports:

- NECAP Tests of Fall 2006: NECAP Student Report
- NECAP Tests of Fall 2006: NECAP Item Analysis Report
- NECAP Tests of Fall 2006: NECAP School/District Results Report
- NECAP Tests of Fall 2006: NECAP School/District Summary Report
- NECAP Tests of Fall 2006: NECAP District Student-Level Data Files

These reports contain information valuable to schools and districts in their efforts to better serve the academic needs of individual students and to evaluate and improve curriculum and instruction. In addition, this document can help school and district personnel communicate with their communities about the NECAP test results. It is important to note that these reports contain results from the student assessment program, and not individual state accountability systems.

Please note that the Appendices contain important information about NECAP assessment instruments and procedures.
General Guidelines for the Use of NECAP Reports

Alignment of Curriculum and the NECAP tests
All test items appearing on the NECAP tests are designed to measure specific NECAP Grade Level Expectations. As schools align their curriculum and instructional programs with these standards, test results should reflect student progress towards these standards.

Use of NECAP Student-Level Results
NECAP results are intended to evaluate how well students and schools are achieving the learning targets contained in the Grade Level Expectations. NECAP was designed primarily to provide detailed school-level results and accurate summary information about individual students. NECAP was not designed to provide, in isolation, detailed student-level diagnostic information for formulating individual instructional plans. However, NECAP results can be used, along with other measures, to identify students’ strengths and weaknesses. NECAP is only one indicator of student performance and should not be used for referring students to special education or for making promotion and/or graduation decisions.

Multiple Data Points Needed for Trend Analysis
A single year’s test results provide limited information about a school or district. As with any evaluation, school and district test results are most meaningful when compared with other indicators and when examined over several years for long-term trends in student performance. This is especially true in small schools where changes in student cohorts from year to year can have a noticeable influence on school results for any given year.

Regulations Regarding Confidentiality of Student Records
The Family Educational Rights and Privacy Act (FERPA) requires that access to individual student results, including those provided in the NECAP Item Analysis Report, and the NECAP Student Report be restricted to the student, the student’s parents/guardians, and authorized school personnel. Superintendents and principals are responsible for maintaining the privacy and security of all student records. In accordance with this federal regulation, authorized school personnel shall have access to the records of students to whom they are providing services when such access is required in the performance of their official duties.

For more information about FERPA please visit the following website:

The Departments of Education in NH, RI and VT and Measured Progress adhere to the NCME code. Local educators also have responsibilities under this code. The entire document can be found in Appendix B. More information about NCME can be found at www.ncme.org.
Understanding the NECAP Student Report

The section below discusses the NECAP Student Report, which provides schools and parents/guardians with information about individual student performance. Details about the NECAP tests and achievement levels are provided on the cover of the NECAP Student Report. Details about the student’s performance on the NECAP tests are included on the inside of the report, which is explained in detail below. Parents/guardians are encouraged to contact the student’s school for more information on their child’s overall achievement after reviewing the NECAP Student Report.

The NECAP Student Report is divided into three sections.

Student’s Achievement Level and Score
This section of the report shows the achievement level attained for each content area. Achievement level descriptions can be found in Appendix C. It also shows the scaled score earned for each content area, as well as a score band that indicates the standard error of measurement surrounding each score. The standard error of measurement indicates how much a student’s score could vary if the student was examined repeatedly with the same test (assuming that no learning occurs between test administrations). Achievement level descriptions are provided on the reverse side of the report.

Student’s Achievement Level Compared to Other Students by School, District, and State
This section of the report lists the four achievement levels—Proficient with Distinction, Proficient, Partially Proficient, and Substantially Below Proficient—for each content area. This student’s performance is noted with a check mark in the appropriate box. The percentage of students at each achievement level is listed for the student’s school, district, and state.

Student’s Performance in Content Area Subcategories
This section of the report shows the student’s performance compared to school, district, and statewide performance in a variety of areas. Each of the three content areas assessed by NECAP is reported by subcategories. For reading, with the exception of Word ID/Vocabulary items, items are reported in two ways—Type of Text and Level of Comprehension. The two types of text are Literary and Informational. The two levels of comprehension are Initial Understanding and Analysis and Interpretation. Numbers and Operations, Geometry and Measurement, Functions and Algebra, and Data, Statistics, and Probability are the subcategories reported for mathematics. The content area subcategories for writing are reported on the Structures of Language and Writing Conventions, displayed in the student’s writing and in response to multiple-choice items, and by the type of response—short or extended.

Student performance in all content area subcategories is presented as a table including possible points, points earned by this student, average points earned for the school, district, and state, and the average points earned by students at the Proficient level on the total content area test.
Students in grades 5 and 8 were also administered the NECAP Writing test, which was scored by two independent scorers. To give a more complete picture of this student’s performance on the writing assessment, each scorer chose up to three comments from a predetermined list. The comments selected by the student’s scorers appear in the table at the bottom right-hand corner of the *NECAP Student Report*.

The *NECAP Student Report* is confidential and should be kept secure within the school and district. Remember, the Family Educational Rights and Privacy Act (FERPA) requires that access to individual student results be restricted to the student, the student’s parents/guardians, and authorized school personnel.

The following two pages contain a sample *NECAP Student Report*. 
## Fall 2006 - Beginning of Grade 5 NECAP Test Results

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Achievement Level</th>
<th>Scaled Score</th>
<th>This Student’s Achievement Level and Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading</td>
<td>Proficient</td>
<td>548</td>
<td>Below 500 520 540 556 580</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Proficient</td>
<td>540</td>
<td>Below 500 530 540 554 580</td>
</tr>
<tr>
<td>Writing</td>
<td>Partially Proficient</td>
<td>535</td>
<td>Below 500 528 540 555 580</td>
</tr>
</tbody>
</table>

### Interpretation of Graphic Display

The line (−) represents the student’s score. The bar (…………) surrounding the score represents the probable range of scores for the student if he or she were to be tested many times. This statistic is called the standard error of measurement. See the reverse side for the achievement level descriptions.

### This Student’s Achievement Level Compared to Other Beginning of Grade 5 Students by School, District, and State

<table>
<thead>
<tr>
<th>Achievement Level</th>
<th>School</th>
<th>District</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proficient with Distinction</td>
<td>5%</td>
<td>5%</td>
<td>15%</td>
</tr>
<tr>
<td>Proficient</td>
<td>47%</td>
<td>47%</td>
<td>52%</td>
</tr>
<tr>
<td>Partially Proficient</td>
<td>30%</td>
<td>30%</td>
<td>22%</td>
</tr>
<tr>
<td>Substantially Below Proficient</td>
<td>19%</td>
<td>19%</td>
<td>11%</td>
</tr>
</tbody>
</table>

### This Student’s Performance in Content Area Subcategories

<table>
<thead>
<tr>
<th>Reading</th>
<th>Possible Points</th>
<th>Student</th>
<th>School</th>
<th>District</th>
<th>State</th>
<th>Students at Proficient Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word ID/Vocabulary</td>
<td>10</td>
<td>9</td>
<td>5.8</td>
<td>5.8</td>
<td>6.7</td>
<td>4.7-5.7</td>
</tr>
<tr>
<td>Type of Text</td>
<td>21</td>
<td>12</td>
<td>10.5</td>
<td>10.6</td>
<td>11.8</td>
<td>9.6-11.1</td>
</tr>
<tr>
<td>Information</td>
<td>21</td>
<td>12</td>
<td>9.5</td>
<td>9.5</td>
<td>11.2</td>
<td>7.5-11.7</td>
</tr>
<tr>
<td>Initial Understanding</td>
<td>26</td>
<td>12</td>
<td>11.9</td>
<td>11.9</td>
<td>12.2</td>
<td>10.5-12.2</td>
</tr>
<tr>
<td>Analysis and Interpretation</td>
<td>16</td>
<td>12</td>
<td>8.2</td>
<td>8.2</td>
<td>8.8</td>
<td>6.7-9.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Possible Points</th>
<th>Student</th>
<th>School</th>
<th>District</th>
<th>State</th>
<th>Students at Proficient Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numbers, and Operations</td>
<td>30</td>
<td>11</td>
<td>11.7</td>
<td>11.7</td>
<td>14.9</td>
<td>9.2-14.5</td>
</tr>
<tr>
<td>Geometry and Measurement</td>
<td>13</td>
<td>4</td>
<td>4.5</td>
<td>4.5</td>
<td>5.9</td>
<td>3.6-5.6</td>
</tr>
<tr>
<td>Functions and Algebra</td>
<td>13</td>
<td>8</td>
<td>6.7</td>
<td>6.7</td>
<td>7.4</td>
<td>4.8-8.3</td>
</tr>
<tr>
<td>Data, Statistics, and Probability</td>
<td>10</td>
<td>4</td>
<td>3.7</td>
<td>3.7</td>
<td>4.6</td>
<td>2.2-5.1</td>
</tr>
</tbody>
</table>

### Writing

<table>
<thead>
<tr>
<th>Possible Points</th>
<th>Student</th>
<th>Average Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure of Language &amp; Writing Conventions</td>
<td>10</td>
<td>9.5</td>
</tr>
<tr>
<td>Short Response</td>
<td>12</td>
<td>8.9</td>
</tr>
<tr>
<td>Extended Response</td>
<td>15</td>
<td>8.4</td>
</tr>
</tbody>
</table>

Comments about this student’s writing performance:

- Writing has some organization.
- Writing has some supporting details.
- Writing has limited word choice and/or control of sentence structure.

*With the exception of Word ID/Vocabulary items, reading items are reported in two ways - Type of Text and Level of Comprehension*
NECAP Student Report - Fall 2006

This report contains results from the Fall 2006 Beginning of Grade New England Common Assessment Program (NECAP) tests. The NECAP tests are administered to students in New Hampshire, Rhode Island, and Vermont as part of each state’s statewide assessment program. The NECAP tests are designed to measure student performance on grade level expectations (GLE) developed and adopted by the three states. Specifically, the tests are designed to measure the content and skills that students are expected to have as they begin the current enrolled grade. In other words, content and skills which students have learned through the end of the previous grade.

NECAP test results are used primarily for school improvement and accountability. Achievement level results are used in the state accountability system required under No Child Left Behind. More detailed school and district results are used by schools to help improve curriculum and instruction. Individual student results are used to support information gathered through classroom instruction and assessments. Contact the school for more information on this student’s overall achievement.

Achievement Levels and Corresponding Score Ranges

Student performance on the NECAP tests is classified into one of four achievement levels describing students’ level of proficiency on the content and skills required through the end of the previous grade. Performance at Proficient or Proficient with Distinction indicates that the student has a level of proficiency necessary to begin working successfully on current grade content and skills. Performance below Proficient suggests that additional instruction and student work may be needed on the previous grade content and skills as the student is introduced to new content and skills at the current grade. Refer to the Achievement Level Descriptions contained in this report for a more detailed description of the achievement levels.

There is a wide range of student proficiency within each achievement level. NECAP test results are also reported as scaled scores to provide additional information about the location of student performance within each achievement level. NECAP scores are reported as three-digit scores in which the first digit represents the grade level. The remaining digits range from 00 to 80. Scores of 40 and higher indicate a level of proficiency at or above the Proficient level. Scores below 40 indicate proficiency below the Proficient level. For example, scores of 340 at grade 3, 540 at grade 5, and 740 at grade 7 each indicate Proficient performance at each grade level.

Comparisons to Other Beginning of Grade Students

The tables in the middle section of the report provide the percentage of students performing at each achievement level in the student’s school, district, and statewide. Note that one or two students can have a large impact on percentages in small schools and districts. Results are not reported for schools or districts with nine (9) or fewer students.

Performance in Content Area Subcategories

This section of the report provides information about student performance on sets of items measuring particular content and skills within each test. These results can provide a general idea of relative strengths and weaknesses in comparison to other students. However, results in this section are based on small numbers of test items and should be interpreted cautiously.

Students at Proficient Level

This column shows the average performance on these items of students who performed near the beginning of the Proficient achievement level on the overall test. Students whose performance in a category falls within the range shown performed similarly to those students. This comparison can provide some information about the level of performance needed to perform at the Proficient level.

Comments about this student’s writing performance

Students in grades 5 and 8 took the NECAP writing test which included a writing prompt that required students to produce a written response up to three pages long. Student responses were scored independently by two scorers. Each scorer was able to choose up to three comments from a prepared list to provide feedback about each student’s performance on the writing prompt. If both scorers selected the same comment, it is listed only once.

Achievement Level Descriptions

Proficient with Distinction (Level 4) - Students performing at this level demonstrate the prerequisite knowledge and skills needed to participate and excel in instructional activities aligned with the GLE at the current grade level. Errors made by these students are few and minor and do not reflect gaps in prerequisite knowledge and skills.

Proficient (Level 3) - Students performing at this level demonstrate minor gaps in the prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. It is likely that any gaps in prerequisite knowledge and skills demonstrated by these students can be addressed during the course of typical classroom instruction.

Partially Proficient (Level 2) - Students performing at this level demonstrate gaps in prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. Additional instructional support may be necessary for these students to meet grade level expectations.

Substantially Below Proficient (Level 1) - Students performing at this level demonstrate extensive and significant gaps in prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. Additional instructional support is necessary for these students to meet grade level expectations.
Understanding the Item Analysis Report

The *NECAP Item Analysis Report* provides schools and districts with information on the released items. It also includes summary information on the scaled score and achievement level for each student in the school in reading, writing, and mathematics. In addition to showing raw data for students, it provides additional information for each released item. Using this report, together with the actual released items, one can easily identify test items on which groups of students did well or poorly. There is a separate *NECAP Item Analysis Report* for each content area. There is a legend after the last page of data for each content area that defines the terms used.

The data used for the *NECAP Item Analysis Report* are the results of the fall 2006 administration of the NECAP test. The NECAP tests are based on the *Grade Level Expectations* (GLE) from the prior year. For example, the Grade 7 NECAP test, administered in the fall of seventh grade, is based on the grade 6 GLEs. Therefore, many students receive the instruction they need for this fall test at a different school from where they are currently enrolled. The state Departments of Education determined that it would be valuable for both the school where the student tested and the school where the student received instruction to have access to information that can help improve curriculum. To achieve this goal, separate *NECAP Item Analysis Reports* have been created for the “testing” school and the “teaching” school. Every student who participated in the NECAP test will be represented in a “testing” school report, and most students will also be represented in a “teaching” school report. In some instances, such as when the student has recently moved into the state, it is not possible to provide information about a student in the “teaching” school report.

When reviewing the *NECAP Item Analysis Reports* it is important to note the following:

- enrollment and not tested data are not reported for the “teaching” school;
- not every student is represented in the “teaching” school reports; and
- the subtitle on the report indicates if the report is based on “teaching” or “testing” year. For example, on a grade 4 report, the subtitle “Grade 4 Students in 2006-2007” means that this report shows the item analysis for the school where the student was enrolled at the time of testing. The subtitle “Grade 3 Students in 2005-2006” indicates that this report shows the item analysis for the school where the student learned the grade 3 material he or she is tested on for the grade 4 NECAP.

The top portion of the *NECAP Item Analysis Report* contains seven rows of information.

- The first row lists the **released item number** (not the position of the item in the actual student test booklet).
- The second row lists the **content strand** for the item.
- The third row lists the **GLE code** for the item.
- The fourth row lists the **Depth of Knowledge** code for the item.
- The fifth row lists the **item type**.
- The sixth row lists the **correct response** letter for each multiple choice item.
- The final row lists the **total possible points** for each item.
When reviewing the multiple-choice sections of this report please keep in mind that a (+) indicates a correct response, a letter indicates the incorrect response selected, and a blank indicates that no response was selected. In the columns for the short-answer and constructed-response results, the numbers indicate the points awarded per item and a blank indicates that the item was not answered. All responses to released items are reported in the *NECAP Item Analysis Report*, regardless of the student’s participation status.

The first column of this report lists each student alphabetically by last name. The column after the released items shows Total Test Results, broken into several categories. Subcategory Points Earned columns report the points the student earned in each content strand. The Total Points Earned column is a summary of all of the points earned in each of the content areas. The last two columns show the Scaled Score and Achievement Level for each student. For students who are reported as Not Tested, a code appears in the Achievement Level column to indicate the reason the student did not test. The descriptions of these codes can be found on the legend, after the last page of data on the *NECAP Item Analysis Report*. It is important to note that not all items used to compute student scores are included in this report. Only those items that have been released are included. The Percent Correct/Average Score for the school, district, and state are listed at the end of each report after the student data.

This *NECAP Item Analysis Report* is confidential and should be kept secure within the school and district. Remember, the Family Educational Rights and Privacy Act (FERPA) requires that access to individual student results be restricted to the student, the student’s parents/guardians, and authorized school personnel.

The following page is a sample *NECAP Item Analysis Report* for mathematics.
## Fall 2006 - Beginning of Grade 3 NECAP Tests
### Grade 3 Students in 2006-2007
#### Item Analysis Report
##### Mathematics

<table>
<thead>
<tr>
<th>Released Item Number</th>
<th>Released Items</th>
<th>Total Test Results</th>
<th>Subcategory Points Earned</th>
<th>Number &amp; Operations</th>
<th>Geometry &amp; Measurement</th>
<th>Probability &amp; Algebra</th>
<th>Data, Statistics, &amp; Probability</th>
<th>Total Points Earned</th>
<th>Total Score</th>
<th>Achievement Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name/Student ID</th>
<th>Correct MC Response</th>
<th>Total Possible Points</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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<th>13</th>
<th>14</th>
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<tbody>
<tr>
<td>+ + + + + + + + + +</td>
<td>+ + +</td>
<td>1 1 2 2 1</td>
<td>26</td>
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<td>9</td>
<td>9</td>
<td>52</td>
<td>351</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td>C + + D + + C A + A 1 0 0 1 2 0</td>
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<td>6</td>
<td>5</td>
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<td>38</td>
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<td>9</td>
<td>10</td>
<td>8</td>
<td>56</td>
<td>355</td>
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</tr>
<tr>
<td>+ + + + + + D + + + + + 1 1 0 2 0 2</td>
<td>26</td>
<td>8</td>
<td>8</td>
<td>9</td>
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<td>350</td>
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<tr>
<td>+ + + + + + + + + + A 1 0 1 2 2 0</td>
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</tr>
<tr>
<td>+ + + + B B + + + + A 1 1 1 2 1 2</td>
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<td>7</td>
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<tr>
<td>+ + B + A C + + D 1 0 0 2 0 0</td>
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<td></td>
</tr>
<tr>
<td>+ + + + A D + + + + + 1 1 1 1 2 2</td>
<td>25</td>
<td>6</td>
<td>8</td>
<td>7</td>
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</tr>
</tbody>
</table>

### Percent Correct/Average Score:
- School: 88 100 88 75 63 50 88 75 100 38 1 0.6 0.4 1.8 1.4 1.1 25.3 6.8 7.8 7.1
- District: 88 100 88 75 63 50 88 75 100 38 1 0.6 0.4 1.8 1.4 1.1 25.3 6.8 7.8 7.1
- State: 74 76 87 76 59 53 74 81 92 46 0.9 0.6 0.4 1.5 1.1 0.7 23.2 6.1 6.9 6.3

401-705-28400
Understanding the School and District Results Reports

Overview
The NECAP School Results Report and the NECAP District Results Report provide NECAP results for schools and districts based on the testing of local students in grades 3 through 8. A separate school report and district report has been produced for each grade level tested.

Although text in this section refers only to the NECAP School Results Report, educators and others who are reviewing the NECAP District Results Report should also refer to this section for applicable information because the data reported, report format, and guidelines for using the reported data are identical for both the school and district reports. The only real difference between the reports is that the NECAP District Results Report includes no individual school data.

The box in the upper right corner of each page shows the school name, district name, state, and school and district code.

Results in the NECAP School Results Report are based on common items (with one exception described on page 24 of this document), and represent the aggregate of individual student scores (achievement level results and scaled scores).

To ensure confidentiality of individual student results and discourage generalizations about school performance based on very small populations, the Departments of Education in NH, RI and VT have established that groups of students must be larger than nine in order to report results in any particular reporting category. Consequently, schools with a very small number of students enrolled in a grade tested may not show results in some sections of their school report. A school report was not generated for any school that tested fewer than ten students at a particular grade; results for students in these schools are included in district- and/or state-level results.

Making Comparisons Among Students, Schools, And Districts
The Departments of Education in NH, RI and VT do not encourage or promote comparisons among schools and districts. NECAP was designed so that each individual school or district can evaluate its performance against a set of Grade Level Expectations and achievement standards.

Scaled scores are the most suitable statistic to use when comparing NECAP results among students, schools, and districts. When interpreting the meaning of these comparisons, however, it is important that decision-makers—teachers, administrators, and policy-makers—fully recognize that any single test is a limited measure of student performance. Since some apparent differences in scaled scores may not be statistically or educationally significant, some guidelines for comparing results are explained on the following page.
The statistical significance of these comparisons is based on variability of the scores and on the number of students tested. The table on the following page can be used to assist you in the following ways:

- comparing sub-populations of students within a school or district,
- comparing the scores of two or more schools or districts,
- comparing the scores of a school to the district and/or state, and
- comparing the scores of a district to the state.

These tables provide figures that can be used to make approximate comparisons between scores. Similar to the score band provided in the Student Report, the figures in the tables are estimates of one standard error around the score or difference between scores. For those interested in making more exact comparisons or learning more about the statistical methods used to make comparisons, a list of references is provided in Appendix D Reference Materials on page 54 of this guide.

Caution should be used when making any of the comparisons listed above because even if scores are different they may not be statistically significantly different. It is very unlikely that any two groups will have exactly the same score. To avoid misinterpretation or over-interpretation of a small difference between scores, statistical tests can be conducted to determine the likelihood that the observed differences in scores occurred by chance and that the two groups might actually have the same score.

NECAP scaled scores are represented by a 3-digit number, with the first digit representing the grade level tested; the remaining digits range from 00-80. Although this same scale is used for all three content areas, one cannot accurately directly compare a school’s or district’s scaled scores across content areas since the scaled scores in each area were determined by separate standard-setting processes.

The table on the following page shows the smallest differences in scaled scores that represent a statistically significant difference in performance based on the number of students tested in the school and/or district. When comparing the scores of two groups of different sizes, one should use a difference that is approximately the average of the minimally statistically significant difference of each group. For example, when comparing the average Grade 3 Reading scaled score of a school with 25 students to the average Grade 3 Reading scaled score of a school with 100 students, one should use three points as the minimally statistically significant difference. Three points is the average of the values for a school of 25 students (4 points) and a school of 100 students (2 points). If the difference in scaled scores between the two groups is at least three points, then the difference is statistically significant. If the difference in scaled scores between the two groups is fewer than three points, the difference is not statistically significant.
Number of Scaled Score Points Denoting Minimally Statistically Significant Difference for Average Group Results

*Standard error of the mean difference with assumption n1=n2 and s1=s2

Comparisons across content areas can also be made by comparing the percentage of students at a particular achievement level. But again, since the classification of students into achievement levels carries a small degree of imprecision, small differences in percentages should not be over-interpreted.

Comparisons of group performance can also be made by comparing the percentages of students scoring at or above a particular achievement level. But again, small differences in percentages should not be over-interpreted. Because, unlike scaled scores, achievement level results are reported as percentages, a slightly different procedure is used to make comparisons between the performance of two groups or between a group and a fixed point. To compare percentages, an interval estimation approach similar to a margin of error or the score band reported on the NECAP student report can be used.

With percentages, the statistical significance of differences is impacted by both the size of the group and the percentage of students in the category of interest (for example, Proficient or above on the Grade 4 Mathematics test). The table on the following page shows the size of the confidence interval that should be drawn around a score for selected percentages and school sizes. For example, if 60% of the students in a school of 50 students are Proficient or above, a confidence interval of ±7 percentage points, from 53% to 67%, would be drawn around the score of 60%. If the school’s performance were being compared to a fixed percentage of 65% of students Proficient or above, the conclusion would be that the school score was not significantly different because the 53%-67% confidence interval includes 65%.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Subject</th>
<th>Number of Students Tested in Group (Class, School etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Reading</td>
<td>6</td>
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<tr>
<td></td>
<td>Mathematics</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Reading</td>
<td>6</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<tr>
<td>5</td>
<td>Reading</td>
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<tr>
<td></td>
<td>Mathematics</td>
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</tr>
<tr>
<td></td>
<td>Writing</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<tr>
<td>7</td>
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<td></td>
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<td>8</td>
<td>Reading</td>
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<td>Mathematics</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Writing</td>
<td>6</td>
</tr>
</tbody>
</table>

*Standard error of the mean difference with assumption n1=n2 and s1=s2
Percentage Difference in Student Achievement Level Classification
Denoting Minimally Statistically Significant Differences for Group Results*

<table>
<thead>
<tr>
<th>Percentages of Students in Achievement Level (s)</th>
<th>Number of Students Tested in Group (Class, School etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>9</td>
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<td>40</td>
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<tr>
<td>50</td>
<td>16</td>
</tr>
<tr>
<td>60</td>
<td>15</td>
</tr>
<tr>
<td>70</td>
<td>14</td>
</tr>
<tr>
<td>80</td>
<td>13</td>
</tr>
<tr>
<td>90</td>
<td>9</td>
</tr>
</tbody>
</table>

*Standard error of a percentage

The previous example compared the performance of a relatively small school to a fixed point (for example, a very large group such as the state). When two relatively small groups are compared, a confidence interval should be drawn around each score using the appropriate values from the table based on the size and performance of each group. If the two confidence intervals do not overlap, then the conclusion is that the difference between the two groups is statistically significantly different. If the two confidence intervals do overlap, then the difference in performance between the two groups is too small to be considered statistically significant. The distance between the two confidence intervals or their degree of overlap also provides a visual indication of the probability that the two scores are significantly different.

Comparisons of NECAP Scores Across Years
The comparison of scores across years requires consideration and caution in addition to those described in the previous section. In general, the evaluation of any score differences should always be interpreted within the larger context of what occurred to impact the performance of the school, district, or other group between the two test administrations being compared.

The comparison of school- and district-level scaled scores and achievement levels across years is essentially the same as the comparison of similar scores within years. The procedures and cautions described in the previous section can be applied to scores from different years. As stated above, however, the interpretation of differences between scores should include consideration of any intervening factors between test administrations.

Also note that when interpreting changes in performance across years, it can be beneficial to consider scaled scores and achievement levels jointly. Interpreting scaled scores or achievement levels alone may lead to misinterpretation or over-interpretation of results. Consider the examples on the following page:
• It is not unusual for large numbers of students to earn the same scaled score—particularly in the middle of the distribution near the Partially Proficient/Proficient cut score. Consequently, school results may show a very small change in mean scaled score near the Proficient cut score, but show a shift of 4–6 percentage points in the percentage of students performing at the Proficient level or above.
• Conversely, a significant change in mean scaled score in the middle of an achievement level may not be reflected in improvement in the achievement level results.

With NECAP testing at grades 3 through 8, most students will have multiple years of NECAP test scores. A logical question to ask is how the student’s performance this year compares to performance in previous years.

The most direct comparison can be made between a student’s Achievement Level from one year to the next within a content area. The NECAP tests are designed specifically to measure the grade level expectations for each grade. Students meeting or exceeding those expectations at their grade level should score at the Proficient or Proficient with Distinction level each year. Of course, scores from a single test such as the NECAP tests should always be interpreted with caution.

The question of whether student performance is Proficient at a particular grade level is critical, but we may also wish to examine progress toward proficiency within an achievement level. Achievement Levels and Scaled Scores can be used together to examine, at a slightly finer level, whether a student is making progress toward proficiency from one year to the next. Scaled scores provide information about student performance within each Achievement Level. NECAP scores are reported on separate 80-point scales corresponding to each grade level (300-380, 400-480, ..., 800-880). Each individual grade level scale has been developed so that at every grade a score of 40 represents Proficient performance at that grade level.

Although the tests and scales are different at each grade level, in general, for students performing below the Proficient level, progress toward proficiency can be shown by earning a score that is closer to the Proficient score of 40. For students scoring at the Substantially Below Proficient level, progress can be shown by earning a scaled score the next year that is closer to or within the Partially Proficient level. Similarly, students scoring above Proficient can progress toward the Proficient with Distinction level.

Of course, small differences in scores of 2–4 points on the 80-point scale should not be over-interpreted. As indicated by the score band on the Student Report, an individual score should be interpreted as a probable range of scores within which student performance might fall. For example, if a student earns a score of 438 in the fourth grade and 541 in the fifth grade, it is likely that the score bands for both grades will cross the Proficient scores of 440 and 540, respectively. Therefore, the scores of 438 and 541 should not be considered significantly different from each other in relation to the Proficient standard for these two grade levels. It is important to remember, however, that maintaining Proficiency from one grade level to the next demonstrates a year of growth in that content area.
Content area subscores cannot be directly compared from one year to the next even within a grade level. Unlike achievement levels and scaled scores, these scores are reported as raw scores and have not been linked across years and placed on the same scale. Differences in subscores from one year to the next in the total number of points earned by a student or in the percent of total possible points earned by a school or district may simply reflect either a small difference in the number of possible points in the reporting category or a slight difference in the difficulty of items within a particular reporting category. The process of equating that accounts for these differences to produce scaled scores and achievement levels for the total content area is not applied to individual reporting categories. There is not a sufficient number of points within each reporting category to equate these subscores from one year to the next.

There are, however, comparisons that can be made with content area subscores to assist schools in the evaluation of their curricula and instructional programs. For each content area subscore, normative information is provided describing performance in comparison to the school, district, state, and at the student level, students scoring at the Proficient threshold. Across years, this information can be used to determine whether progress has been made relative to one of the comparison groups. Even more than with scaled scores and achievement levels, it is important not to over-interpret small changes from one year to the next.

At the school and district levels, it is also possible to pool content area subscores across years to compute a cumulative total. Consistent with the cumulative achievement level and scaled score information reported for the total content area, results based on a larger pool of students and/or test items can provide a more stable picture of school or district performance over longer periods of time. Of course, intervening factors such as program or curricular changes may impact local decisions on the appropriateness of pooling data across years.

The table on the following page shows the scaled scores that identify the cut point between the four achievement levels—Proficient with Distinction, Proficient, Partially Proficient, Substantially Below Proficient. The achievement level cut scores were the result of the standard-setting process that was completed in January, 2005 and will remain consistent year to year.
<table>
<thead>
<tr>
<th>Grade</th>
<th>Subject</th>
<th>SP/PP*</th>
<th>PP/P*</th>
<th>P/PD*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Reading</td>
<td>330 / 331</td>
<td>339 / 340</td>
<td>356 / 357</td>
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<tr>
<td></td>
<td>Mathematics</td>
<td>331 / 332</td>
<td>339 / 340</td>
<td>352 / 353</td>
</tr>
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<td>4</td>
<td>Reading</td>
<td>430 / 431</td>
<td>439 / 440</td>
<td>455 / 456</td>
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<td></td>
<td>Mathematics</td>
<td>430 / 431</td>
<td>439 / 440</td>
<td>454 / 455</td>
</tr>
<tr>
<td>5</td>
<td>Reading</td>
<td>529 / 530</td>
<td>539 / 540</td>
<td>555 / 556</td>
</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td>532 / 533</td>
<td>539 / 540</td>
<td>553 / 554</td>
</tr>
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<td></td>
<td>Writing</td>
<td>527 / 528</td>
<td>539 / 540</td>
<td>554 / 555</td>
</tr>
<tr>
<td>6</td>
<td>Reading</td>
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<td>639 / 640</td>
<td>658 / 659</td>
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<td>Mathematics</td>
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<td>639 / 640</td>
<td>652 / 653</td>
</tr>
<tr>
<td>7</td>
<td>Reading</td>
<td>728 / 729</td>
<td>739 / 740</td>
<td>759 / 760</td>
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<td>739 / 740</td>
<td>751 / 752</td>
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<tr>
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<td>827 / 828</td>
<td>839 / 840</td>
<td>858 / 859</td>
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<tr>
<td></td>
<td>Mathematics</td>
<td>833 / 834</td>
<td>839 / 840</td>
<td>851 / 852</td>
</tr>
<tr>
<td></td>
<td>Writing</td>
<td>828 / 829</td>
<td>839 / 840</td>
<td>855 / 856</td>
</tr>
</tbody>
</table>

*SP = Substantially Below Proficient, PP = Partially Proficient, P = Proficient, PD = Proficient with Distinction

The data used for the NECAP School Results Report are the results of the fall 2006 administration of the NECAP test. The NECAP tests are based on the Grade Level Expectations (GLE) from the prior year. For example, the Grade 7 NECAP test, administered in the fall of seventh grade, is based on the grade 6 GLEs. Therefore, many students receive the instruction they need for this fall test at a different school from where they are currently enrolled. The state Departments of Education determined that it would be valuable for both the school where the student tested and the school where the student received instruction to have access to information that can help improve curriculum. To achieve this goal, separate NECAP School Results Reports have been created for the “testing” school and the “teaching” school. Every student who participated in the NECAP test will be represented in a “testing” school report, and most students will also be represented in a “teaching” school report. In some instances, such as when the student has recently moved into the state, it is not possible to provide information about a student in the “teaching” school report.

The following page contains a sample cover of a NECAP School Results Report for both “teaching year” and “testing year.”
This report highlights results from the Fall 2006 Beginning of Grade New England Common Assessment Program (NECAP) tests. The NECAP tests are administered to students in New Hampshire, Rhode Island, and Vermont as part of each state’s statewide assessment program. NECAP test results are used primarily for school improvement and accountability. Achievement level results are used in the state accountability system required under No Child Left Behind (NCLB). More detailed school and district results are used by schools to help improve curriculum and instruction. Individual student results are used to support information gathered through classroom instruction and assessments.

NECAP tests in reading and mathematics are administered to students in grades 3 through 8 and writing tests are administered to students in grades 5 and 8. The NECAP tests are designed to measure student performance on grade level expectations (GLE) developed and adopted by the three states. Specifically, the tests are designed to measure the content and skills that students are expected to have as they begin the school year in their current grade. In other words, the content and skills which students have learned through the end of the previous grade.

Each test contains a mix of multiple-choice and constructed-response questions. Constructed-response questions require students to develop their own answers to questions. On the mathematics test, students are required to provide the correct answer to a computation or word problem, draw or interpret a chart or graph, or explain how they solved a problem. On the reading test, students may be required to make a list or write a few paragraphs to answer a question related to a literary or informational passage. On the writing test, students are required to provide a single extended response of 1-3 pages and three shorter responses to questions measuring different types of writing.

This report contains a variety of school- and district- and state-level assessment results for the NECAP tests administered at a grade level. Achievement level distributions and mean scaled scores are provided for all students tested as well as for subgroups of students classified by demographics or program participation. The report also contains comparative information on school and district performance on subtopics within each content area tested. In addition to this report of grade level results, schools and districts will also receive Summary Reports, Item Analysis Reports, Released Item support materials, and student-level data files containing NECAP results. Together, these reports and data constitute a rich source of information to support local decisions in curriculum, instruction, assessment, and professional development. Over time, this information can also strengthen school district’s evaluation of their ongoing improvement efforts.

**Fall 2006 Beginning of Grade 3 NECAP Tests**

<table>
<thead>
<tr>
<th>School</th>
<th>Grade 3 Students in 2006-2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>District:</td>
<td>Code:</td>
</tr>
</tbody>
</table>

**About The New England Common Assessment Program**

This report highlights results from the Fall 2006 Beginning of Grade New England Common Assessment Program (NECAP) tests. The NECAP tests are administered to students in New Hampshire, Rhode Island, and Vermont as part of each state’s statewide assessment program. NECAP test results are used primarily for school improvement and accountability. Achievement level results are used in the state accountability system required under No Child Left Behind (NCLB). More detailed school and district results are used by schools to help improve curriculum and instruction. Individual student results are used to support information gathered through classroom instruction and assessments.

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**Fall 2006 Beginning of Grade 3 NECAP Tests**

<table>
<thead>
<tr>
<th>School</th>
<th>Grade 2 Students in 2005-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>District:</td>
<td>Code:</td>
</tr>
</tbody>
</table>
Grade Level Summary Report
(Second page of the *NECAP School Results Report*)

The second page, titled “Grade Level Summary Report,” provides a summary of participation in NECAP and a summary of NECAP results. This page shows the number and percentage of students who were enrolled, tested, and not tested as part of the NECAP test in fall 2006. Students enrolled in a school on or after October 1, 2006 were expected to complete the NECAP test at that school.

The first table in the “Grade Level Summary Report” shows the number of students enrolled in the tested grade. The total number of students reported as enrolled is defined as the number of students tested added to the numbers of students who were not tested.

Since students who were not tested did not participate in the NECAP tests, average school scores are not affected by not tested students. These students are included in the calculation of the percent that participated, but are not included in the calculation of scores.

For students who participated in some but not all parts of the NECAP test, their actual score was reported for each content area in which they participated. These reporting decisions were made to support the requirement that all students must participate in the NECAP testing program.

Data is provided for the following groups of students who may not have completed the entire battery of NECAP tests.

- **Alternate Assessment**—Students in this category completed an alternate assessment for the 2005-2006 school year.
- **First Year LEP**—Students in this category are defined as being new to the US after October 1, 2005 and were not required to take the NECAP tests in reading and writing. Students in this category were expected to take the mathematics portion of the NECAP.
- **Withdrew After October 1**—Students withdrawing from a school after October 1, 2006 may have taken some sessions of the NECAP tests prior to their withdrawal from the school.
- **Enrolled After October 1**—Students enrolling in a school after October 1, 2006 may not have had adequate time to fully participate in all sessions of the NECAP tests.
- **Special Consideration**—Schools received state approval for special consideration for an exemption for all or part of the NECAP tests for any student whose circumstances are not described by the previous categories, but for whom the school determined that taking the NECAP tests would not be possible.
- **Other**—Occasionally students will not have completed the NECAP tests for reasons other than those listed above. These “other” categories are considered “not state approved.”
NECAP Results

The results portion of the page indicates the number and percentage of students performing at each achievement level in each of the three content areas tested by NECAP. In addition, a Mean Scaled Score is provided for each content area at the school, district, and state levels.

The following page contains a sample of the “Grade Level Summary Report” from a NECAP School Results Report.
**Guide to Using the 2006 NECAP Reports**

**Page 2 of 8**

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**Fall 2006 - Beginning of Grade 5 NECAP Tests**

**Grade 5 Students in 2006-2007**

**Grade Level Summary Report**

Schools and districts administered all NECAP tests to every enrolled student with the following exceptions: students who participated in the alternate assessment for the 2005-06 school year, first year LEP students, students who withdrew from the school after October 1, 2006, students who enrolled in the school after October 1, 2006, students for whom a special consideration was granted through the state Department of Education, and other students for reasons not approved. On this page, and throughout this report, results are only reported for groups of students that are larger than nine (9).

### Participation in NECAP

<table>
<thead>
<tr>
<th></th>
<th>School</th>
<th>District</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students enrolled on or after October 1</td>
<td>95</td>
<td>173</td>
<td>11,589</td>
</tr>
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</table>

### Students tested

<table>
<thead>
<tr>
<th></th>
<th>Reading</th>
<th>Math</th>
<th>Writing</th>
<th>Reading</th>
<th>Math</th>
<th>Writing</th>
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<th>98</th>
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<td>Students tested</td>
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<td>95</td>
<td>95</td>
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<td>173</td>
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<td>Students not tested in NECAP</td>
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<tr>
<td>Withdrawn After October 1</td>
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**NECAP RESULTS**

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<th>District</th>
<th>State</th>
</tr>
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<tbody>
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<td>N</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Math</strong></td>
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<tr>
<td><strong>Writing</strong></td>
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<td>0</td>
</tr>
</tbody>
</table>

**Level 4 = Proficient with Distinction; Level 3 = Proficient; Level 2 = Partially Proficient; Level 1 = Substantially Below Proficient**

Note: Throughout this report, percentages may not total 100 since each percentage is rounded to the nearest whole number.
Content Area Results
(Pages 3, 5, and 7 of the NECAP School Results Report)

Content area subscores provide information on performance in specific subtopics of the tested content areas (for example, geometry and measurement within mathematics). Subscore results by content area tested are provided on the following pages of the report:

- page 3—reading,
- page 5—mathematics,
- page 7—writing.

The purpose of these sections is to help schools determine the extent to which their curricula are effective in helping students achieve the particular standards and benchmarks contained in the Grade Level Expectations.

Information about each content area (reading, mathematics and writing) for school, district and state includes:

- the total number of students Enrolled, Not Tested (state-approved reason), Not Tested (other reason), and Tested;
- the total number and percent of students at each achievement level (based on the number in the Tested column); and
- the Mean Scaled Score.

The information listed above is provided for both the current testing year (2006–07) in bold as well as the previous testing year (2005–06). These pages of the report also include a location for scores for 2007–08 so that next year a cumulative total over the three years can be reported.

For this year, because there are only two years of data available, these scores are combined into a “Cumulative Total” row. The two years of data are summed for the Enrolled, Not Tested Approved, Not Tested Other, and Tested columns. For the achievement levels, the two years of data in the “N” columns are summed while the percentages of students are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total number of students tested. The Mean Scaled Score is calculated by summing the product of the mean scaled score and tested N for each year, and dividing the sum by the tested N from the cumulative total row (weighted average).

Information about each content area subtopic for reading, mathematics and writing includes:

- The Total Possible Points for that category. In order to provide as much information as possible for each category, the total number of points includes both the common items used to calculate scores as well as additional items in each category used for equating the test from year to year.
- A graphic display of the Percent of Total Possible Points for the school, state and district. In this graphic display, there are symbols representing school, district and state performance. In addition, there is a line representing the standard error of measurement. This statistic indicates
how much a student’s score could vary if the student was examined repeatedly with the same test (assuming that no learning occurs between test administrations).

The following page contains a sample “Reading Results” page from a NECAP School Results Report.
## Guide to Using the 2006 NECAP Reports

### Fall 2006 - Beginning of Grade 5 NECAP Tests

#### Grade 5 Students in 2006-2007

#### Reading Results

<table>
<thead>
<tr>
<th>Subtopic</th>
<th>Total Possible Points</th>
<th>Percent of Total Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Word ID/Vocabulary</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Type of Text</strong></td>
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<td></td>
</tr>
<tr>
<td>Literary</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Informational</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td><strong>Level of Comprehension</strong></td>
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<td></td>
</tr>
<tr>
<td>Initial Understanding</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Analysis &amp; Interpretation</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

#### Proficient with Distinction (Level 4)

Student’s performance demonstrates an ability to read and comprehend grade-appropriate text. Student is able to analyze and interpret literary and informational text. Student offers insightful observations/assertions that are well supported by references to the text. Student uses range of vocabulary strategies and breadth of vocabulary knowledge to read and comprehend a wide variety of texts.

#### Proficient (Level 3)

Student’s performance demonstrates an ability to read and comprehend grade-appropriate text. Student is able to analyze and interpret literary and informational text. Student makes and supports relevant assertions by referencing text. Student uses vocabulary strategies and breadth of vocabulary knowledge to read and comprehend text.

#### Partially Proficient (Level 2)

Student’s performance demonstrates an inconsistent ability to read and comprehend grade-appropriate text. Student attempts to analyze and interpret literary and informational text. Student may make and/or support assertions by referencing text. Student’s vocabulary knowledge and use of strategies may be limited and may impact the ability to read and comprehend text.

#### Substantially Below Proficient (Level 1)

Student’s performance demonstrates minimal ability to derive/construct meaning from grade-appropriate text. Student may be able to recognize story elements and text features. Student’s limited vocabulary knowledge and use of strategies impacts the ability to read and comprehend text.

---

### Table

<table>
<thead>
<tr>
<th>Enrolled</th>
<th>NT Approved</th>
<th>NT Other</th>
<th>Tested</th>
<th>Level 4</th>
<th>Level 3</th>
<th>Level 2</th>
<th>Level 1</th>
<th>Mean Scaled Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHOOL</td>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>%</td>
<td>N</td>
<td>%</td>
<td>N</td>
</tr>
<tr>
<td>2005-06</td>
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<td>0</td>
<td>98</td>
<td>11</td>
<td>11</td>
<td>50</td>
<td>51</td>
</tr>
<tr>
<td>2006-07</td>
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<td>95</td>
<td>12</td>
<td>13</td>
<td>52</td>
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<tr>
<td>2007-08</td>
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<td></td>
<td>193</td>
<td>23</td>
<td>12</td>
<td>102</td>
<td>53</td>
</tr>
<tr>
<td>Cumulative Total</td>
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<td>0</td>
<td>193</td>
<td>23</td>
<td>12</td>
<td>102</td>
<td>53</td>
</tr>
</tbody>
</table>

**DISTRICT**

| 2005-06 | 175 | 0 | 0 | 175 | 16 | 9 | 80 | 51 | 48 | 27 | 22 | 13 | 539 |
| 2006-07 | 173 | 0 | 0 | 173 | 17 | 10 | 90 | 52 | 46 | 27 | 20 | 12 | 543 |
| 2007-08 |     |   |   |     |    |   |    |    |    |    |    |    |     |
| Cumulative Total | 348 | 0 | 0 | 348 | 33 | 9 | 179 | 51 | 94 | 27 | 42 | 12 | 541 |

**STATE**

| 2005-06 | 11,570 | 180 | 6 | 11,384 | 1,470 | 13 | 5,250 | 46 | 2,880 | 25 | 1,784 | 16 | 540 |
| 2006-07 | 11,589 | 176 | 9 | 11,404 | 1,494 | 13 | 5,309 | 47 | 2,831 | 25 | 1,770 | 16 | 543 |
| 2007-08 |     |   |   |     |    |    |    |    |    |    |    |    |     |
| Cumulative Total | 23,159 | 356 | 15 | 22,788 | 2,964 | 13 | 10,559 | 46 | 5,711 | 25 | 3,554 | 16 | 542 |
Disaggregated Content Area Results
(Pages 4, 6, and 8 of the NECAP School Results Report)

• page 4—reading,
• page 6—mathematics, and
• page 8—writing.

Students can be grouped according to many characteristics—gender, ethnicity, school programs, etc. The scores provide information on achievement for different groups in a school, males and females for example.

The performance of subgroups is included on the “Disaggregated Content Area Results” pages of the NECAP School Results Report for reading, mathematics, and writing. These sections present the relationship between the variables reported and performance in each content area at the school, district and state levels. The tables show the number of students categorized as Enrolled, Not Tested (state-approved reason), Not Tested (other reason), and Tested. The tables also provide the number and percentage of students within the subgroup at each of the four achievement levels, as well as the Mean Scaled Score. The data for achievement levels and Mean Scaled Score is based on the number shown in the Tested column. The data for the reporting categories was provided by information coded on the students’ answer booklets by teachers and/or data linked to the student label. Because performance is being reported by categories that can contain relatively low numbers of students, school personnel are advised, under FERPA guidelines, to treat these pages confidentially.

The following page contains a sample “Disaggregated Mathematics Results” page from a NECAP School Results Report. Please note that for NH and VT no data appears for 504 Plan in any of the content areas. In addition, for VT, no data appears for Title I in any of the content areas.
## School:

### Fall 2006 - Beginning of Grade 5 NECAP Tests

#### Grade 5 Students in 2006-2007

### Disaggregated Mathematics Results

### Reporting Categories

<table>
<thead>
<tr>
<th>Reporting Categories</th>
<th>SCHOOL</th>
<th>DISTRICT</th>
<th>STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrolled</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>NT Approved</td>
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<td>N</td>
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</tr>
<tr>
<td>NT Other</td>
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<td>N</td>
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</tr>
<tr>
<td>Tested</td>
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<td>N</td>
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</tr>
<tr>
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<tr>
<td>Level 3</td>
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<td>Level 1</td>
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</tr>
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<tr>
<td>Level 3</td>
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<td>N</td>
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<tr>
<td>Level 2</td>
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<td>N</td>
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<tr>
<td>Level 1</td>
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<tr>
<td>Mean Scaled Score</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

### Gender

- Male
- Female
- Not Reported

### Primary Race/Ethnicity

- American Indian or Alaskan Native
- Asian
- Black or African American
- Hispanic or Latino
- Native Hawaiian or Pacific Islander
- White (non-Hispanic)
- No Primary Race/Ethnicity Reported

### LEP Status

- Currently receiving LEP services
- Former LEP student - monitoring year 1
- Former LEP student - monitoring year 2
- All Other Students

### IEP

- Students with an IEP
- All Other Students

### SES

- Economically Disadvantaged Students
- All Other Students

### Migrant

- Migrant Students
- All Other Students

### Title I

- Students Receiving Title I Services
- All Other Students

### 504 Plan

- Students with a 504 Plan
- All Other Students

### Mean Scaled Score

- Level 4 = Proficient with Distinction; Level 3 = Proficient; Level 2 = Partially Proficient; Level 1 = Substantially Below Proficient

### Notes

- Some numbers may have been left blank because fewer than ten (10) students were tested.

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**Page 6 of 8**
Understanding the School and District Summary Reports

Overview
The NECAP School Summary Report and the NECAP District Summary Report provide NECAP results for schools and districts based on the testing of local students in grades 3 through 8. A separate school report and district report has been produced for each grade level tested.

Although text in this section refers only to the NECAP School Summary Report, educators and others who are reviewing the NECAP District Summary Report should also refer to this section for applicable information because the data reported, report format, and guidelines for using the reported data are identical for both the school and district reports. The only real difference between the reports is that the NECAP District Summary Report includes no individual school data.

The NECAP School Summary Report provides details, broken down by content area, about student performance for all grade levels of NECAP that were tested in the school.

The purpose of this summary is to help schools determine the extent to which their students achieve the particular standards and benchmarks contained in the Grade Level Expectations.

Information about each content area and grade level for school, district and state includes:

- the total number of students Enrolled, Not Tested (state-approved reason), Not Tested (other reason), and Tested;
- the total number and percent of students at each achievement level (based on the number in the Tested column); and
- the Mean Scaled Score.

Now that schools and districts will have access to two years of summary reports (2005–06 and 2006–07) as well as “teaching year” and “tested year” summary reports for each year, it is important to be able to differentiate and identify each of the four reports. The top line in the title of the report (see example below) designates the year the test was administered. That line does not change whether you are looking at a “testing year” or “teaching year” report. The second line in the title is the name of the report. The third line in the title differentiates between the “teaching year” and the “testing year.” For the “Fall 2006 NECAP Tests,” the label “2006–2007 Students” in the third line indicates that it is a “testing year” report and a label of “2005–2006 Students” in the third line would indicate that it is a “teaching year” report. The name of the tests within the report (for example, “Beginning of Grade 3”) also does not change whether you are looking at a “teaching year” or “testing year” report.

The following page contains a sample NECAP School Summary Report.
## Fall 2006 NECAP Tests

### School Summary

**2006-2007 Students**

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<td></td>
<td></td>
<td></td>
<td>N %</td>
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<td></td>
</tr>
<tr>
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</tr>
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<th>NT Other</th>
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<th>Achievement Level</th>
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<td>Level 4</td>
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<td></td>
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<td></td>
<td>N %</td>
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<table>
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<th>NT Other</th>
<th>Tested</th>
<th>Achievement Level</th>
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<tr>
<td></td>
<td>N N N N</td>
<td>N N N N</td>
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<td>Level 4</td>
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<td>Beginning of Grade 5</td>
<td>8 0 1 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Beginning of Grade 8</td>
<td>10 0 2 8</td>
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</table>

**Level 4** = Proficient with Distinction; **Level 3** = Proficient; **Level 2** = Partially Proficient; **Level 1** = Substantially Below Proficient
District Student-Level Data Files

In addition to all of the reports, districts are also able to access and download student-level data files from the NECAP reporting website for each grade of students tested within their district. Student-level data files will be available for both “teaching year” and “testing year.”

The student-level data files list students alphabetically within each school and contain all of the demographic information for each student that was provided by the state. Student records contain each scaled score, achievement level, and subscores earned by the student for each content area tested. In addition, the student records contain each student’s actual performance on each of the released items for each content area tested as well as the student’s responses to the student questionnaire.

The data collected from the optional reports fields that were coded by schools on page two of the student answer booklets is also available for each student in the student-level data file. The “optional report” fields were provided to allow schools the option of grouping individual students into additional categories (for example, by class or by previous year’s teacher) for the purpose of allowing schools to make comparisons between subgroups that are not already listed on the disaggregated results pages of the school and district results reports.

The file layout of the student-level data files that lists all of the field names, variable information, and valid values for each field is also available to districts on the NECAP reporting website. Schools must contact their district office to obtain copies of their student-level data files and the file layout.
Appendix A
Overview of Assessment Instruments and Procedures
NECAP Tests of 2006

Local Educator Involvement in Test Development
Local educators in all three NECAP states were actively involved in each aspect of the NECAP test development from the beginning of the collaboration among the three states. Educators have been involved in development of Grade Level Expectations, review of all passages and items for bias and sensitivity issues, review of all items for purposes of alignment, Depth of Knowledge, age appropriateness and accuracy of content. Local educators were also involved in standard setting and the Technical Advisory Committee.

Grade Level Expectation Development
The NH, RI and VT Departments of Education have developed a common set of grade level expectations, known as the New England Common Assessment Program Grade Level Expectations (GLE), and test specifications in mathematics, reading, and writing. These expectations were developed in response to the requirements of the federally mandated No Child Left Behind Act of 2001 to test all students, beginning in the 2005-2006 academic year, in each of grades 3 through 8 in mathematics and reading/language arts. Although these sets of GLEs were developed for this purpose, the partner states were committed to building coherent sets of expectations that would focus, not narrow, the curricula; would support good instruction; and would be aligned with each state’s standards. Throughout the development process, each of the NECAP partners has relied upon the expertise of educators in their states. These educators have helped guide the development of these documents and have made numerous insightful contributions in an effort to help support meaningful instruction in mathematics and reading/language arts.

Item Review Committee
During the item review process, a committee of local educators is convened to review all of the items developed for NECAP. Committee member comments are solicited for each item. Each item is evaluated on the following four criteria:

- alignment with the GLE being measured;
- accurate Depth of Knowledge coding;
- appropriateness for grade-level; and
- content accuracy.

Bias and Sensitivity Committee
A committee of local educators also meets to review all reading passages and individual test items. Committee members determine if the passages and items are likely to place a particular group of students at an advantage or disadvantage for non-educational reasons; and if so, whether the passage or item should be revised or removed.
Technical Advisory Committee
A committee of nationally recognized test and measurement experts and local educators has been established and meets regularly to ensure the technical integrity of NECAP tests.

Test Design

In order to provide a valid assessment of students’ attainment of the Grade Level Expectations, a variety of item types needed to be used. Therefore, multiple-choice items, short-answer items constructed-response items and extended-response writing prompts were used as follows.

Multiple choice (one point)
Multiple-choice items are efficient for testing a broad array of content in a relatively short time span.

Short answer (one point and two point)
These open-ended items ask students to generate a short response to a question.

Constructed response (four points)
This is a more complex item type that requires students to give a longer response to items related to a reading passage or solve multi-step mathematics problems.

Extended-response writing prompts (twelve points)
These are topics or questions designed to prompt students to respond in writing. Students compose a response to the writing prompt.

There are multiple versions, or forms, of the NECAP tests; nine forms were created for each grade level tested in reading and mathematics. Approximately half of the items in each of the NECAP test forms were the same in every form, or were “common” to all forms of the test. All individual student results (achievement levels, scaled scores, content area subscores) and school results are based on only common items. The other half of the items in each form were matrix sampled. “Matrix sampling” means distributing a large number of items among the different forms of the test. This approach allows for field testing of new items for subsequent years’ tests and also allows some items to be administered in successive years for purposes of equating the tests from year to year.

The writing test is entirely common, meaning that every student in grade 5 took the same writing test, and each student in grade 8 took the same writing test.

A portion of common items is publicly released following each year’s test administration to inform local curriculum and instruction. Released common items are replaced each year with some of the items from the previous year’s matrix-sampled section.
Content Knowledge and Skills Tested on NECAP

All items appearing on the NECAP test were designed to measure a specific GLE. The GLE documents for each content area can be found at each state Department of Education website (see page 1 for DOE web addresses).

The NECAP reading test consists of 42 multiple-choice items and 9 constructed-response items at all grades.

The reading passages on the NECAP test are broken down into the following categories:

- Literary passages representing a variety of forms—modern narratives; diary entries; drama; poetry; biographies; essays; excerpts from novels; short stories; and traditional narratives such as fables, tall tales, myths, and folktales.
- Informational passages, which are factual texts and often deal with the areas of science and social studies. These passages are taken from sources such as newspapers, magazines, and excerpts from books. Informational text also includes directions, manuals, or recipes.

The passages are authentic texts—selected from grade-level appropriate reading sources—that students would be likely to experience in both classroom and independent reading. None of the passages are written specifically for the assessment, but instead are collected from published works.

The items on the NECAP test are categorized by both the type of passage associated with the item and also whether the item measured lower or higher level comprehension. The level of comprehension is designated as either “Initial Understanding” or “Analysis and Interpretation.”

Word identification and vocabulary skills are tested, primarily through multiple-choice items, at each grade level.

### Reading Distribution of Emphasis

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<tr>
<td><strong>Initial Understanding of Literary Text</strong></td>
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<td>20%</td>
<td>20%</td>
<td>15%</td>
<td>15%</td>
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<tr>
<td><strong>Initial Understanding of Informational Text</strong></td>
<td>20%</td>
<td>20%</td>
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<tr>
<td><strong>Analysis and Interpretation of Literary Text</strong></td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
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<tr>
<td><strong>Analysis and Interpretation of Informational Text</strong></td>
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The NECAP mathematics test at grades 3 and 4 consists of 44 multiple-choice items, 13 one-point short-answer items, and 13 two-point short-answer items.

The NECAP mathematics tests at grades 5 through 8 consists of 41 multiple-choice items, 9 one-point short-answer items, 9 two-point short-answer items, and 6 constructed-response items.

The content standards in mathematics identify four major strands.

- Numbers and Operations
- Geometry and Measurement
- Functions and Algebra
- Data, Statistics, and Probability

In addition, problem solving, reasoning, connections and communication are embedded throughout the GLEs.

### Mathematics Distribution of Emphasis

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</tbody>
</table>
The NECAP writing test at grades 5 and 8 consists of 10 multiple-choice items, 3 constructed-response items, 3 one-point short-answer items, and one extended-response writing prompt.

NECAP assesses students’ writing skills directly through the use of writing prompts, or topics, to which students respond. In the 2006 tests, all students were administered one extended writing prompt. Students also completed constructed-response items. Each of the constructed-response items and the writing prompt addressed a different genre of writing.

The content standards in writing identify four major genres.

- Writing in Response to Literary Text
- Writing in Response to Informational Text
- Narratives
- Informational Writing (Report/Procedure at grade 5 and Persuasive at grade 8)

Each year, all four genres of writing are assessed in the writing portion of the NECAP test. In addition, structures and conventions of language are assessed through multiple-choice items and throughout the student’s writing.

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<tr>
<th>Writing Distribution of Emphasis</th>
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<tr>
<td><strong>Narrative</strong></td>
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<td></td>
<td>Less emphasis</td>
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<tr>
<td><strong>Informational Writing</strong></td>
<td></td>
<td></td>
<td>Greater emphasis (Reports)</td>
<td></td>
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<td>Greater emphasis (Reports or Persuasive)</td>
</tr>
<tr>
<td><strong>Conventions</strong></td>
<td></td>
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<td>Less emphasis</td>
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<td>Less emphasis</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100%</td>
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</table>
Administration Procedures for NECAP

Guidelines for test scheduling, student participation, and test security, as well as detailed administration manuals, were provided to districts and schools prior to the October 2006 testing period. Training on test administration procedures was provided through five or more Test Administration Workshops held in each of the three states three weeks prior to testing.

Student Participation
All students were to participate in the assessment in one of the following three ways:

- the general assessment without accommodations,
- the general assessment with accommodations, or
- state-specific alternate assessment.

The decision about how a student with disabilities would participate using accommodations was made at the local level. Guidance in making these decisions was available through each state’s Department of Education and through use of the NECAP Accommodations Training Guide, available at the DOE website for each state.

Test Scheduling
The NECAP Reading and Mathematics tests were designed to be administered in six separate sessions. For students in grades 5 and 8, two additional writing sessions were administered. The guidelines for scheduling test sessions were based on an estimate that each session would require approximately forty-five minutes and all students were allowed up to ninety minutes per session. Administrators were instructed to allow extra time for any students who required test accommodations that could not be made during the regular test sessions. For scheduling purposes, each session was treated as an intact unit. That is, once students started a session of the test they had to finish it within the time allotted; also, under no circumstances were they allowed to go back to an earlier session once they had moved on to another session.
Scoring

In November 2006, more than 26 million responses were processed and scored at Measured Progress. The scoring activities that were used to produce the results for the NECAP reports are described below.

Scoring was separated into the following four major tasks:

- scoring of responses to multiple-choice items,
- scoring of responses to short-answer items,
- scoring of responses to constructed-response items, and
- scoring of extended-response writing prompts.

Multiple-choice items were machine-scored using digital scanning equipment. Correct responses were assigned a score of one point each; incorrect or blank responses were assigned a score of zero points each.

Short-answer and constructed-response items were scored by scorers employed by Measured Progress, the testing contractor. Short-answer items were given a score from zero to one or zero to two. Constructed-response items were given a score from zero to four. Zeros are employed when a student produces some work, but the work is totally wrong or irrelevant, or if he or she leaves the item blank. For purposes of aggregating item results, blanks and zeros both count as zero points towards a student’s score.

The work in preparation for scoring student responses included:

- development of scoring guides (rubrics) by content specialists from the NH, RI and VT Departments of Education and Measured Progress’s test developers, and
- selection of “benchmark” responses—examples of student work at different score points for each item—that were used in training and continuous monitoring of scorer accuracy.

Scorer training consisted of:

- review of each item and its related content and performance standard,
- review and discussion of the scoring guide and multiple sets of benchmark responses for each score point, and
- qualifying rounds of scoring in which scorers needed to demonstrate a prescribed level of accuracy.
Extended-response items (writing test only) were given a score from zero to six. Zeros are employed when a student produces some work, but the work is totally wrong or irrelevant or if he or she leaves the item blank. For purposes of aggregating item results, blanks and zeros both count as zero points towards a student’s score. All NECAP extended response items are 100% double-blind scored. Double-blind scoring refers to the method of scoring whereby two scorers score the same response and neither scorer has any indication as to what score the other person has given. If there is a difference in reader scores that is greater than 1 score point, then the response goes into an arbitration queue. Senior scoring staff members score all arbitration responses without knowing the scores given by the two previous readers. The state Departments of Education defined how resolution should be reached if discrepant scores arise.

Preparation for scoring extended-response items included the selection of benchmark responses that mirrored the work described on page 33 for scoring short-answer and constructed-response items. Scorers were trained by grade level and content area in large sessions by senior scoring staff for that grade.
Setting Standards for Performance on the NECAP Tests

Standard setting is the process of determining the minimum or “threshold” score for each achievement level, grade, and subject for which results are reported. The multi-step process of setting standards for the NECAP tests began with creation of achievement level descriptions.

In January 2005, the state Departments of Education in NH, RI and VT convened panels of educators to participate in the standard-setting process for NECAP. A challenging aspect of standard setting is that many methods exist to set standards and establish cut points. With this in mind, the Departments of Education, in consultation with the NECAP Technical Advisory Committee and Measured Progress, determined that three kinds of judgments would be employed for setting standards on the NECAP tests.

Upon completion of the data gathering phases of standard setting, the commissioners of each state met on January 20, 2005 to approve the recommended cut points.

The judgments captured by this standard-setting method are not based on the actual NECAP tests; rather, the standards rely on teacher judgments in matching students to the same achievement descriptors established for NECAP. Teachers were asked to judge how well their students were prepared to succeed in each content area in the upcoming school year by reviewing the achievement level descriptions and considering each student. The achievement level descriptors were given insignificant labels (i.e. 1, 2, 3, 4) to encourage teachers to focus on the descriptors and not on labels such as Proficient.

Once this information was collected from teachers, preliminary data were established by calculating the percentage of students teachers rated in each category for each content area and grade level.

One standard setting panel was convened for each grade level (3 through 8) in mathematics and another in reading. More than 100 panelists participated in two days of meetings to set the standards for each content area. Panelists were local educators invited to participate by the NH, RI and VT Departments of Education.

The Bookmark method of standard setting is a multi-step process. First, participants took the NECAP test as though they were students. Then, as a group, the panels reviewed the achievement level descriptions, paying special attention to differentiating between knowledge, skills and abilities typically associated with students described as being on the borderline between achievement levels. Panelists then looked at “Ordered Item Booklets,” which show each common item on the test in order from easiest to hardest. The “Ordered Item Booklet” also includes actual student work samples for each score point for short-answer and constructed-response items. Participants made decisions about which items would differentiate between students at each achievement level and placed a “bookmark” between those items to represent the cut point between achievement levels. In addition, panelists were provided with Score Profiles (in intervals of 20-25 points) that show average or typical item scores for a student whose total score is at the center of that interval. Panelists looked at the profiles that would fall into each achievement level category based on their cut points and determined if they thought their cut point placements made sense. Small- and large-group discussions followed regarding the knowledge, skills and abilities associated with the items around each cut point. Participants had the opportunity to change their placement of the
“bookmark” based on these discussions. Finally, panelists had the opportunity to provide feedback on the achievement level descriptions.

One standard setting panel was convened for each grade level (5 and 8) in writing. Approximately 30 panelists participated in two days of meetings to set the standards for writing. Panelists were local educators invited to participate by the NH, RI and VT Departments of Education.

The Body of Work method of standard setting was used for writing. Similar to the Bookmark method described above, participants took the NECAP test, reviewed achievement level descriptions, and discussed knowledge, skills and abilities typically associated with “borderline” students. Participants were then provided with identical sets of student work (including responses to all relevant item types) from approximately 25 different, anonymous students distributed along the raw score continuum. Panelists were asked to independently (without discussion) categorize the student sets as Proficient with Distinction, Proficient, Partially Proficient, or Substantially Below Proficient based on their match to the achievement level. Panelists were also asked to write brief comments rationalizing each of their ratings and to help refresh their memories when discussing their ratings. After completing their categorizations, panelists reviewed and discussed all of the sets of student work, and the facilitator was instructed to encourage discussion of ratings where there was a noticeable split among panelists. After the discussion of each student’s work, panelists were provided the opportunity to change any of their ratings. Second ratings were recorded in a column immediately adjacent to the first ratings on each panelist’s rating form. Finally, panelists had the opportunity to provide feedback on the achievement level descriptions.
Reporting

The NECAP tests were designed to measure student performance against the learning goals described in the Grade Level Expectations. Consistent with this purpose, primary results on the NECAP tests are reported in terms of achievement levels that describe student performance in relation to these established state standards. There are four achievement levels: Proficient with Distinction, Proficient, Partially Proficient, and Substantially Below Proficient. Students receive a separate achievement-level classification (based on total scaled score) in each content area in which they complete a test. There is no overall classification of student performance across content areas. School- and district-level results are reported as the number and percentage of students attaining each achievement level at each grade level tested.

In addition to achievement levels, NECAP results are also reported as scaled scores. The major purpose of including scaled scores in NECAP reports is to enhance the level of feedback provided to students, parents, and teachers. Each of the four achievement levels encompasses a range of student performance. A student whose test performance is just above Substantially Below Proficient and a student whose level of performance is slightly below Proficient are both classified as Partially Proficient. However, scaled-score results are more precise since they pinpoint a student’s performance (score) on the continuum of scores within the achievement levels. The additional information provided by scaled scores is critical in forming the most accurate impression of performance possible.

NECAP scores in each content area are reported on a scale that ranges from 00 to 80. Scaled scores supplement the NECAP achievement-level results by providing information about the position of a student’s results within an achievement level. School- and district-level scaled scores are calculated by computing the average of student-level scaled scores. Students’ raw scores, or total number of points, on the NECAP tests are translated to scaled scores using a data analysis process called scaling. Scaling simply converts raw points from one scale to another. In the same way that the same temperature can be expressed on either the Fahrenheit or Celsius scales and the same distance can be expressed either in miles or kilometers, student scores on the NECAP tests could be expressed as raw scores (i.e., number right) or scaled scores.

It is important to note that converting from raw scores to scaled scores does not change the students’ achievement-level classifications. Given the relative simplicity of raw scores, it is fair to question why scaled scores are used in NECAP reports instead of raw scores. Foremost, scaled scores offer the advantage of simplifying the reporting of results across content areas, grade levels, and subsequent years. Because the standard-setting process typically results in different cut scores across content areas on a raw score basis, it is useful to transform these raw cut scores to a scale that is more easily interpretable and consistent. For NECAP, a score of 40 is the cut score between the Partially Proficient and Proficient achievement levels. This is true regardless of the content area, grade, or year with which one may be concerned. If one were to use raw scores, the raw cut score between Substantially Below Proficient and Partially Proficient might, for example, be 35 in mathematics at grade 3, but 33 in mathematics at grade 7, or 36 in writing at grade 8. Using scaled scores greatly simplifies the task of understanding how a student performed.
Appendix B

CODE OF PROFESSIONAL RESPONSIBILITIES
IN EDUCATIONAL MEASUREMENT

Prepared by the NCME Ad Hoc Committee on the Development of a Code of Ethics:
Cynthia B. Schmeiser, ACT – Chair
Kurt F. Geisinger, State University of New York
Sharon Johnson-Lewis, Detroit Public Schools
Edward D. Roeber, Council of Chief State School Officers
William D. Schafer, University of Maryland

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Any portion of this Code may be reproduced and disseminated for educational purposes
As an organization dedicated to the improvement of measurement and evaluation practice in education, the National Council on Measurement in Education (NCME) has adopted this Code to promote professionally responsible practice in conduct that arises from either the professional standards of the field, general ethical principles, or both.

The purpose of the Code of Professional Responsibilities in Educational Measurement, hereinafter referred to as the Code, is to guide the conduct of NCME members who are involved in any type of assessment activity in education. NCME is also providing this Code as a public service for all individuals who are engaged in educational assessment activities in the hope that these activities will be conducted in a professionally responsible manner. Persons who engage in these activities include local educators such as classroom teachers, principals, and superintendents; professionals such as school psychologists and counselors; state and national technical, legislative, and policy staff in education; staff of research, evaluation, and testing organizations; providers of test preparation services; college and university faculty and administrators; and professionals in business and industry who design and implement educational and training programs.

This Code applies to any type of assessment that occurs as part of the educational process, including formal and informal, traditional and alternative techniques for gathering information used in making educational decisions at all levels. These techniques include, but are not limited to, large-scale assessments at the school, district, state, national, and international levels; standardized tests; observational measures; teacher-conducted assessments; assessment support materials; and other achievement, aptitude, interest, and personality measures used in and for education.

Although NCME is promulgating this Code for its members, it strongly encourages other organizations and individuals who engage in educational assessment activities to endorse and abide by the responsibilities relevant to their professions. Because the Code pertains only to uses of assessment in education, it is recognized that uses of assessments outside of educational contexts, such as for employment, certification, or licensure, may involve additional professional responsibilities beyond those detailed in this Code.

The Code enumerates professional responsibilities in eight major areas of assessment activity. Specifically, the Code presents the professional responsibilities of those who:

1) Develop Assessments
2) Market and Sell Assessments
3) Select Assessments
4) Administer Assessments
5) Score Assessments
6) Interpret Use, and Communicate Assessment Results
7) Educate About Assessment
8) Evaluate Programs and Conduct Research on Assessments.

Although the organization of the Code is based on the differentiation of these activities, they are viewed as highly interrelated, and those who use this Code are urged to consider the Code in its entirety. The index following this Code provides a listing of some of the critical interest topics within educational measurement that focus on one or more of the assessment activities.
The professional responsibilities promulgated in this Code in eight major areas of assessment activity are based on expectations that NCME members involved in educational assessment will:

1) protect the health and safety of all examinees;
2) be knowledgeable about, and behave in compliance with, state and federal laws relevant to the conduct of professional activities;
3) maintain and improve their professional competence in educational assessment;
4) provide assessment services only in areas of their competence and experience, affording full disclosure of their professional qualifications;
5) promote the understanding of sound assessment practices in education;
6) adhere to the highest standards of conduct and promote professionally responsible conduct within educational institutions and agencies that provide educational services; and
7) perform all professional responsibilities with honesty, integrity, due care, and fairness.

1.1 ensure that assessment products and services are developed to meet applicable professional, technical, and legal standards.
1.2 develop assessment products and services that are as free as possible from bias due to characteristics irrelevant to the construct being measured, such as gender, ethnicity, race, socioeconomic status, disability, religion, age, or national origin.
1.3 plan accommodations for groups of test takers with disabilities and other special needs when developing assessments.
1.4 disclose to appropriate parties any actual or potential conflicts of interest that might influence the developers' judgment or performance.
1.5 use copyrighted materials in assessment products and services in accordance with state and federal law.
1.6 make information available to appropriate persons about the steps taken to develop and score the assessment, including up-to-date information used to support the reliability, validity, scoring and reporting processes, and other relevant characteristics of the assessment.
1.7 protect the rights to privacy of those who are assessed as part of the assessment development process.
1.8 caution users, in clear and prominent language, against the most likely misinterpretations and misuses of data that arise out of the assessment development process.
1.9 avoid false or unsubstantiated claims in test preparation and program support materials and services about an assessment or its use and interpretation.
1.10 correct any substantive inaccuracies in assessments or their support materials as soon as feasible.
1.11 develop score reports and support materials that promote the understanding of assessment results.

Responsible professional practice includes being informed about and acting in accordance with the Code of Fair Testing Practices in Education (Joint Committee on Testing Practices, 1988), the Standards for Educational and Psychological Testing (American Educational Research Association, American Psychological Association, NCME, 1985), or subsequent revisions as well as all applicable state and federal laws that may govern the development, administration, and use of assessment. Both the Standards for Educational and Psychological Testing and the Code of Fair Testing Practices in Education are intended to establish criteria for judging the technical adequacy of tests and the appropriate uses of tests and test results. The purpose of this Code is to describe the professional responsibilities of those individuals who are engaged in assessment activities. As would be expected, there is a strong relationship between professionally responsible practice and sound educational assessments, and this Code is intended to be consistent with the relevant parts of both of these documents.

It is not the intention of NCME to enforce the professional responsibilities stated in the Code or to investigate allegations of violations to the Code. Since the Code provides a frame of reference for the evaluation of the appropriateness of behavior, NCME recognizes that the Code may be used in legal or other similar proceedings.
2.1 provide accurate information to potential purchasers about assessment products and services and their recommended uses and limitations.

2.2 not knowingly withhold relevant information about assessment products and services that might affect an appropriate selection decision.

2.3 base all claims about assessment products and services on valid interpretations of publicly available information.

2.4 allow qualified users equal opportunity to purchase assessment products and services.

2.5 establish reasonable fees for assessment products and services.

2.6 communicate to potential users, in advance of any purchase or use, all applicable fees associated with assessment products and services.

2.7 strive to ensure that no individuals are denied access to opportunities because of their inability to pay the fees for assessment products and services.

2.8 establish criteria for the sale of assessment products and services, such as limiting the sale of assessment products and services to those individuals who are qualified for recommended uses and from whom proper uses and interpretations are anticipated.

2.9 inform potential users of known inappropriate uses of assessment products and services and provide recommendations about how to avoid such misuses.

2.10 maintain a current understanding about assessment products and services and their appropriate uses in education.

2.11 release information implying endorsement by users of assessment products and services only with the users’ permission.

2.12 avoid making claims that assessment products and services have been endorsed by another organization unless an official endorsement has been obtained.

2.13 avoid marketing test preparation products and services that may cause individuals to receive scores that misrepresent their actual levels of attainment.

3.1 conduct a thorough review and evaluation of available assessment strategies and instruments that might be valid for the intended uses.

3.2 recommend and/or select assessments based on publicly available documented evidence of their technical quality and utility rather than on unsubstantiated claims or statements.

3.3 disclose any associations or affiliations that they have with the authors, test publishers or others involved with the assessments under consideration for purchase and refrain from participation if such associations might affect the objectivity of the selection process.

3.4 inform decision makers and prospective users of the appropriateness of the assessment for the intended uses, likely consequences of use, protection of examinee rights, relative costs, materials, and services needed to conduct or use the assessment, and known limitations of the assessment, including potential misuses and misinterpretations of assessment information.

3.5 recommend against the use of any prospective assessment that is likely to be administered, scored, and used in an invalid manner for members of various groups in our society for reasons of race, ethnicity, gender, age, disability, language background, socioeconomic status, religion, or national origin.

3.6 comply with all security precautions that may accompany assessments being reviewed.

3.7 immediately disclose any attempts by others to exert undue influence on the assessment selection process.

3.8 avoid recommending, purchasing, or using test preparation products and services that may cause individuals to receive scores that misrepresent their actual levels of attainment.
4.1 inform the examinees about the assessment prior to its administration, including its purposes, uses; and consequences; how the assessment information will be judged or scored; how the results will be kept on file; who will have access to the results; how the results will be distributed; and examinees rights before, during, and after the assessment.

4.2 administer only those assessments for which they are qualified by education, training, licensure, or certification.

4.3 take appropriate security precautions before, during, and after the administration of the assessment.

4.4 understand the procedures needed to administer the assessment prior to administration.

4.5 administer standardized assessments according to prescribed procedures and conditions and notify appropriate persons if any nonstandard or delimiting conditions occur.

4.6 not exclude any eligible student from the assessment.

4.7 avoid any conditions in the conduct of the assessment that might invalidate the results.

4.8 provide for and document all reasonable and allowable accommodations for the administration of the assessment to persons with disabilities or special needs.

4.9 provide reasonable opportunities for individuals to ask questions about the assessment procedures or directions prior to and at prescribed times during the administration of the assessment.

4.10 protect the rights to privacy and due process of those who are assessed.

4.11 avoid actions or conditions that would permit or encourage individuals or groups to receive scores that misrepresent their actual levels of attainment.

5.1 provide complete and accurate information to users about how the assessment is scored, such as the reporting schedule, scoring process to be used, rationale for the scoring approach, technical characteristics, quality control procedures, reporting formats, and the fees, if any, for these services.

5.2 ensure the accuracy of the assessment results by conducting reasonable quality control procedures before, during, and after scoring.

5.3 minimize the effect on scoring of factors irrelevant to the purposes of the assessment.

5.4 inform users promptly of any deviation in the planned scoring and reporting service or schedule and negotiate a solution with users.

5.5 provide corrected score results to the examinee or the client as quickly as practicable should errors be found that may affect the inferences made on the basis of the scores.

5.6 protect the confidentiality of information that identifies individuals as prescribed by state and federal law.

5.7 release summary results of the assessment only to those persons entitled to such information by state or federal law or those who are designated by the party contracting for the scoring services.

5.8 establish, where feasible, a fair and reasonable process for appeal and rescoring the assessment.
6.1 conduct these activities in an informed objective, and fair manner within the context of the assessment’s limitations and with an understanding of the potential consequences of use.

6.2 provide to those who receive assessment results information about the assessment, its purposes, its limitations, and its uses necessary for the proper interpretation of the results.

6.3 provide to those who receive score reports an understandable written description of all reported scores, including proper interpretations and likely misinterpretations.

6.4 communicate to appropriate audiences the results of the assessment in an understandable and timely manner, including proper interpretations and likely misinterpretations.

6.5 evaluate and communicate the adequacy and appropriateness of any norms or standards used in the interpretation of assessment results.

6.6 inform parties involved in the assessment process how assessment results may affect them.

6.7 use multiple sources and types of relevant information about persons or programs whenever possible in making educational decisions.

6.8 avoid making, and actively discourage others from making, inaccurate reports, unsubstantiated claims, inappropriate interpretations, or otherwise false and misleading statements about assessment results.

6.9 disclose to examinees and others whether and how long the results of the assessment will be kept on file, procedures for appeal and rescoring, rights examinees and others have to the assessment information, and how those rights may be exercised.

6.10 report any apparent misuses of assessment information to those responsible for the assessment process.

6.11 protect the rights to privacy of individuals and institutions involved in the assessment process.

7.1 remain competent and current in the areas in which they teach and reflect that in their instruction.

7.2 provide fair and balanced perspectives when teaching about assessment.

7.3 differentiate clearly between expressions of opinion and substantiated knowledge when educating others about any specific assessment method, product, or service.

7.4 disclose any financial interests that might be perceived to influence the evaluation of a particular assessment product or service that is the subject of instruction.

7.5 avoid administering any assessment that is not part of the evaluation of student performance in a course if the administration of that assessment is likely to harm any student.

7.6 avoid using or reporting the results of any assessment that is not part of the evaluation of student performance in a course if the use or reporting of results is likely to harm any student.

7.7 protect all secure assessments and materials used in the instructional process.

7.8 model responsible assessment practice and help those receiving instruction to learn about their professional responsibilities in educational measurement.

7.9 provide fair and balanced perspectives on assessment issues being discussed by policymakers, parents and other citizens.
8.1 conduct evaluation and research activities in an informed, objective, and fair manner.

8.2 disclose any associations that they have with authors, test publishers, or others involved with the assessment and refrain from participation if such associations might affect the objectivity of the research or evaluation.

8.3 preserve the security of all assessments throughout the research process as appropriate.

8.4 take appropriate steps to minimize potential sources of invalidity in the research and disclose known factors that may bias the results of the study.

8.5 present the results of research, both intended and unintended, in a fair, complete, and objective manner.

8.6 attribute completely and appropriately the work and ideas of others.

8.7 qualify the conclusions of the research within the limitations of the study.

8.8 use multiple sources of relevant information in conducting evaluation and research activities whenever possible.

8.9 comply with applicable standards for protecting the rights of participants in an evaluation or research study, including the rights to privacy and informed consent.

As stated at the outset, the purpose of the Code of Professional Responsibilities in Educational Measurement is to serve as a guide to the conduct of NCME members who are engaged in any type of assessment activity in education. Given the broad scope of the field of educational assessment as well as the variety of activities in which professionals may engage, it is unlikely that any code will cover the professional responsibilities involved in every situation or activity in which assessment is used in education. Ultimately, it is hoped that this Code will serve as the basis for ongoing discussions about what constitutes professionally responsible practice. Moreover, these discussions will undoubtedly identify areas of practice that need further analysis and clarification in subsequent editions of the Code. To the extent that these discussions occur, the Code will have served its purpose.

To assist in the ongoing refinement of the Code, comments on this document are most welcome. Please send your comments and inquiries to:

Dr. William J. Russell
Executive Officer
National Council on Measurement in Education
1230 Seventeenth Street, NW
Washington, DC 20036-3078
Guide to Using the 2006 NECAP Reports


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### General Achievement Level Descriptions

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<td>Proficient with Distinction (Level 4)</td>
<td>Students performing at this level demonstrate the prerequisite knowledge and skills needed to participate and excel in instructional activities aligned with the GLE at the current grade level. Errors made by these students are few and minor and do not reflect gaps in prerequisite knowledge and skills.</td>
</tr>
<tr>
<td>Proficient (Level 3)</td>
<td>Students performing at this level demonstrate minor gaps in the prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. It is likely that any gaps in prerequisite knowledge and skills demonstrated by these students can be addressed during the course of typical classroom instruction.</td>
</tr>
<tr>
<td>Partially Proficient (Level 2)</td>
<td>Students performing at this level demonstrate gaps in prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. Additional instructional support may be necessary for these students to meet grade level expectations.</td>
</tr>
<tr>
<td>Substantially Below Proficient (Level 1)</td>
<td>Students performing at this level demonstrate extensive and significant gaps in prerequisite knowledge and skills needed to participate and perform successfully in instructional activities aligned with the GLE at the current grade level. Additional instructional support is necessary for these students to meet grade level expectations.</td>
</tr>
<tr>
<td>Reading Achievement Level Descriptions</td>
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<tr>
<td><strong>Proficient with Distinction</strong></td>
<td>Student’s performance demonstrates an ability to read and comprehend grade-appropriate text. Student is able to analyze and interpret literary and informational text. Student offers insightful observations/assertions that are well supported by references to the text. Student uses range of vocabulary strategies and breadth of vocabulary knowledge to read and comprehend a wide variety of texts.</td>
</tr>
<tr>
<td><strong>Proficient</strong></td>
<td>Student's performance demonstrates an ability to read and comprehend grade-appropriate text. Student is able to analyze and interpret literary and informational text. Student makes and supports relevant assertions by referencing text. Student uses vocabulary strategies and breadth of vocabulary knowledge to read and comprehend text.</td>
</tr>
<tr>
<td><strong>Partially Proficient</strong></td>
<td>Student’s performance demonstrates an inconsistent ability to read and comprehend grade-appropriate text. Student attempts to analyze and interpret literary and informational text. Student may make and/or support assertions by referencing text. Student’s vocabulary knowledge and use of strategies may be limited and may impact the ability to read and comprehend text.</td>
</tr>
<tr>
<td><strong>Substantially Below Proficient</strong></td>
<td>Student’s performance demonstrates minimal ability to derive/construct meaning from grade-appropriate text. Student may be able to recognize story elements and text features. Student’s limited vocabulary knowledge and use of strategies impacts the ability to read and comprehend text.</td>
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<tr>
<td>Mathematics Achievement Level Descriptions</td>
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<td>--------------------------------------------</td>
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<tr>
<td><strong>Proficient with Distinction</strong></td>
<td>Student's problem solving demonstrates logical reasoning with strong explanations that include both words and proper mathematical notation. Student's work exhibits a high level of accuracy, effective use of a variety of strategies, and an understanding of mathematical concepts within and across grade level expectations. Student demonstrates the ability to move from concrete to abstract representations.</td>
</tr>
<tr>
<td><strong>Proficient</strong></td>
<td>Student's problem solving demonstrates logical reasoning with appropriate explanations that include both words and proper mathematical notation. Student uses a variety of strategies that are often systematic. Computational errors do not interfere with communicating understanding. Student demonstrates conceptual understanding of most aspects of the grade level expectations.</td>
</tr>
<tr>
<td><strong>Partially Proficient</strong></td>
<td>Student's problem solving demonstrates logical reasoning and conceptual understanding in some, but not all, aspects of the grade level expectations. Many problems are started correctly, but computational errors may get in the way of completing some aspects of the problem. Student uses some effective strategies. Student's work demonstrates that he or she is generally stronger with concrete than abstract situations.</td>
</tr>
<tr>
<td><strong>Substantially Below Proficient</strong></td>
<td>Student's problem solving is often incomplete, lacks logical reasoning and accuracy, and shows little conceptual understanding in most aspects of the grade level expectations. Student is able to start some problems but computational errors and lack of conceptual understanding interfere with solving problems successfully.</td>
</tr>
<tr>
<td>Writing Achievement Level Descriptions</td>
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<tr>
<td><strong>Proficient with Distinction</strong></td>
<td>Student's writing demonstrates an ability to respond to prompt/task with clarity and insight. Focus is well developed and maintained throughout response. Response demonstrates use of strong organizational structures. A variety of elaboration strategies is evident. Sentence structures and language choices are varied and used effectively. Response demonstrates control of conventions; minor errors may occur.</td>
</tr>
<tr>
<td><strong>Proficient</strong></td>
<td>Student's writing demonstrates an ability to respond to prompt/task. Focus is clear and maintained throughout the response. Response is organized with a beginning, middle and end with appropriate transitions. Details are sufficiently elaborated to support focus. Sentence structures and language use are varied. Response demonstrates control of conventions; errors may occur but do not interfere with meaning.</td>
</tr>
<tr>
<td><strong>Partially Proficient</strong></td>
<td>Student's writing demonstrates an attempt to respond to prompt/task. Focus may be present but not maintained. Organizational structure is inconsistent with limited use of transitions. Details may be listed and lack elaboration. Sentence structures and language use are unsophisticated and may be repetitive. Response demonstrates inconsistent control of conventions.</td>
</tr>
<tr>
<td><strong>Substantially Below Proficient</strong></td>
<td>Student's writing demonstrates a minimal response to prompt/task. Focus is unclear or lacking. Little or no organizational structure is evident. Details are minimal and/or random. Sentence structures and language use are minimal or absent. Frequent errors in conventions may interfere with meaning.</td>
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Appendix D

Reference Materials

