

# Interpretive Guide to the WinScan Score Reports for ***NCEXTEND1*** Assessments

## 2014-15

North Carolina Department of Public Instruction



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## Introduction

WinScan is a software application provided to schools by the North Carolina Department of Public Instruction (NCDPI). This software permits administrators at the district level to produce a variety of score reports on demand, including Individual Student Reports (ISRs), Achievement Level Frequency Reports, Class Roster Reports, and Score Frequency Reports. *The Interpretive Guide to the WinScan Score Reports for NCEXTENDI Assessments* is intended to help educators understand these reports and to inform decision making at the student, classroom, school, and district levels. This guide will also help administrators and educators explain assessment results to parents and the general public.

The NCDPI also produces an interpretive guide entitled *Understanding the Individual Student Report (UISR)*. The UISRs are available online for the English Language Arts (ELA)/Reading, Mathematics, and Science End-of-Grade (EOG) and *NCEXTENDI* assessments (see <http://www.ncpublicschools.org/accountability/policies/uirs>).

The UISRs are designed for parents and teachers; whereas, the *Interpretive Guide to WinScan Score Reports for the North Carolina End-of-Grade Assessments* is designed for teachers and administrators at the school, district, and state levels. Together, these documents provide guidance in interpreting the many reports that are generated by the WinScan software application.

## How to Use This Guide

This guide provides users with sample WinScan reports and the information needed to interpret a specific WinScan report. Users can learn about all of the key features of the sample reports by matching label numbers in the sample reports to the label numbers in the *Index of Terms by Label Number*.

## The WinScan Reports

Each WinScan report has a standard template. Except for the ISRs, the standard templates can be modified through user-defined options. When the standard report templates are combined with different options, assessments, and data filters, over three hundred (300) unique reports can be produced. This guide focuses on the most commonly used reports for *NCEXTENDI* assessments. Table 1 shows a list of the reports described in subsequent pages and the audiences for which these reports are intended. The ISRs are designed for students, teachers, parents, and school administrators. Class Rosters are designed for teachers and school administrators. Score Frequency Reports and

Achievement Level Frequency Reports are designed for teachers, principals, district administrators, and state administrators.

Table 1. *WinScan Reports and Intended Audience*

Report	Audience				
	Parent	Teacher	Administrators		
			School	District	State
Individual Student Report	✓	✓	✓		
Class Roster Reports		✓	✓		
Score and Achievement Level Frequency Reports		✓	✓	✓	✓

The WinScan reporting system can aggregate data at various levels, including class, school, district, and state levels. Table 2 presents the reporting levels of each group-level WinScan report.

Table 2. *Reporting Levels for Group-Level WinScan Reports*

Report	Reporting Level			
	Class	School	District	State
Class Roster Reports	✓	✓		
Score and Achievement Level Frequency Reports	✓	✓	✓	✓

The WinScan reporting system can also summarize scores across various subgroups, including gender (male and female) and ethnicity (American Indian, Asian, Black, Hispanic, Two or More Races, and White). Table 3 presents the standard reporting groups available for each group-level WinScan report. When multiple subgroups are selected, reports are produced for every combination of the chosen subgroups.

Table 3. *Standard Reporting Groups for Group-Level WinScan Reports*

Report	Groups			
	All	Gender	Ethnicity	Gender & Ethnicity
Class Roster Reports	✓	✓	✓	✓
Score and Achievement Level Frequency Reports	✓	✓	✓	✓

*Note: Ethnicity includes the following subgroups: American Indian, Asian, Black, Hispanic, Two or More Races, and White.*

As can be seen from Tables 2 and 3, users have many options when producing WinScan reports, including subject areas, four possible reporting levels, and four grouping variables, resulting in over 300 individual reports.

## ***NCEXTEND1 Assessments***

As part of the statewide assessment program, students are assessed using the ***NCEXTEND1*** alternate assessment for the following state-required North Carolina assessments: the NC EOG assessments of ELA/reading, mathematics, and science, and the North Carolina End-of-Course (EOC) Assessments of English II, Math I, and Biology. The ELA/reading and mathematics assessments are administered to students at grades 3–8. Science is administered to students at grades 5 and 8. The EOC assessments are administered at grade 10. These curriculum-based achievement assessments are specifically aligned to the North Carolina *Standard Course of Study* and include a variety of strategies to measure the achievement of North Carolina students.

The ***NCEXTEND1*** is an alternate assessment for students who have a significant cognitive disability. The ***NCEXTEND1*** is administered to eligible students at grades 3–8 and 10 as part of the statewide assessment program. These curriculum-based assessments are specifically aligned to the North Carolina *Standard Course of Study* (NCSCS) Extended Content Standards. The ***NCEXTEND1*** measures grade-level extended content standards using a variety of performance tasks. The achievement of students participating in the ***NCEXTEND1*** is a measure based on alternate academic achievement standards for the content area(s) being tested. Student scores from the ***NCEXTEND1*** are used for computing school performance composites, as required by the state-mandated READY Accountability Program. The scores are also used in determining Annual Measurable Objectives (AMOs) designed to improve educational outcomes for all students and close achievement gaps, as required under the Elementary and Secondary Education Act (ESEA) waiver obtained by North Carolina in May 2012 and the renewal granted to North Carolina in 2015. This waiver granted North Carolina flexibility regarding specific requirements of the *No Child Left Behind Act* of 2001 (NCLB).

Key features of the ***NCEXTEND1*** assessments:

- The ***NCEXTEND1*** assesses student achievement on the North Carolina *Standard Course of Study Extended Content Standards* (<http://www.ncpublicschools.org/acre/standards/extended/>).
- The assessment takes place during a designated testing window in the spring. Each student has one assessor and a proctor for each content area assessed with the ***NCEXTEND1***. Each assessment is comprised of 15 items. Students are provided up to two opportunities to respond to each item.

# Individual Student Reports

For students at grades 3, 4, 6, and 7, the Individual Student Report (ISR) for the *NCEXTENDI* provides information concerning performance on the *NCEXTENDI* for ELA/reading and mathematics. For students at grades 5 and 8, the report includes information concerning performance on the *NCEXTENDI* for ELA/reading, mathematics, and science. For students at grade 10, the report provides information concerning performance on the *NCEXTENDI* English II, Math I, and Biology assessments. An ISR report is provided in Figure 1. Key features are labeled and explained in the *Index of Terms by Label Number*.

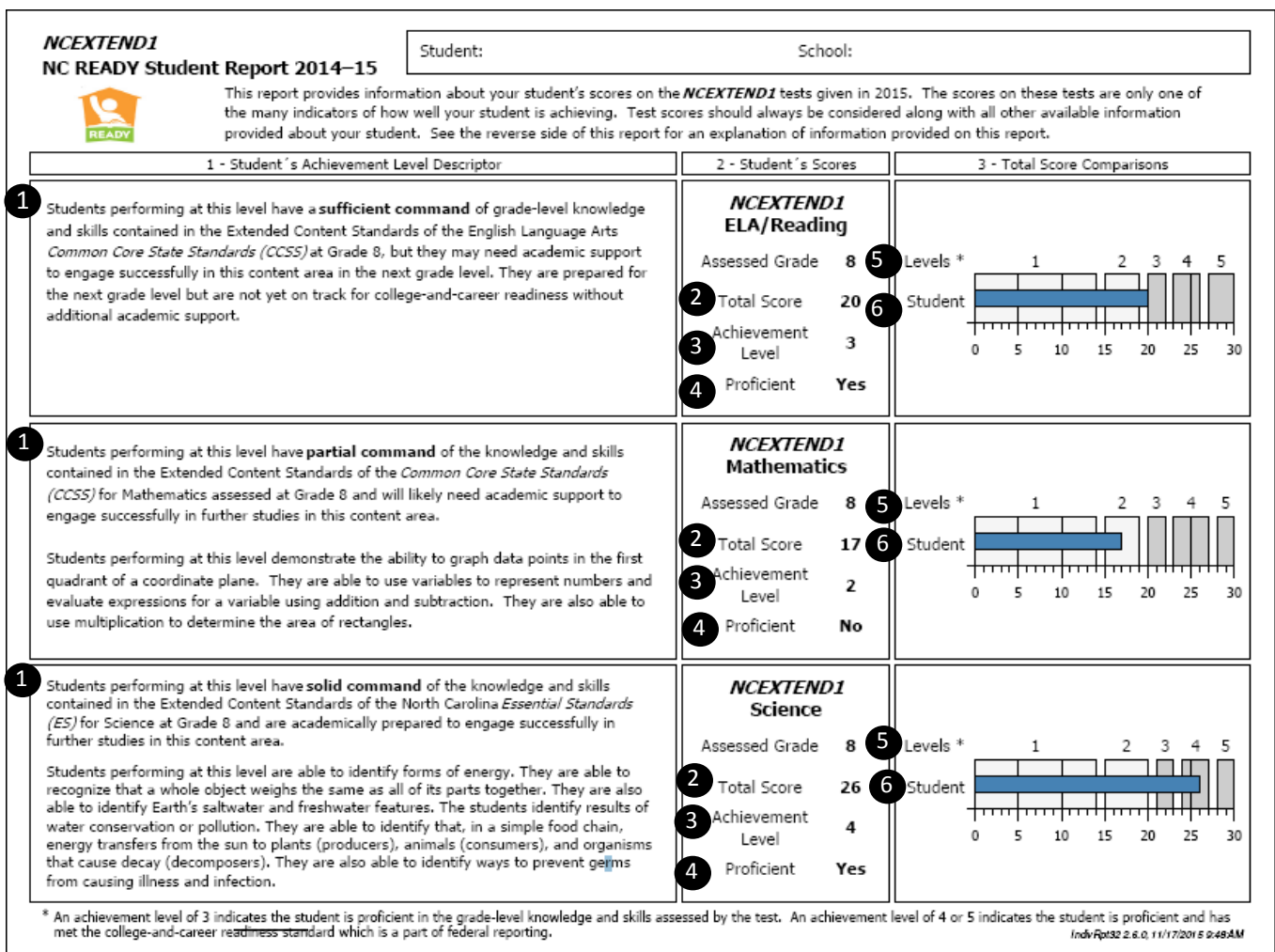


Figure 1. Sample Individual Student Report for *NCEXTENDI* Assessments.



## Class Roster Reports

The Class Roster Reports take on many different combinations. The report can contain grade-specific student scores for each content area independently or it can contain grade-specific student scores for combinations of content areas. The most typical combination for *NCEXTEND1* is a class roster report that displays ELA/reading, mathematics, and science scores together on one report for a specific grade. Figure 2 displays a sample *NCEXTEND1* Class Roster report. This report is often produced at the class level and the school level.

PUBLIC SCHOOLS OF NORTH CAROLINA ALTERNATE ASSESSMENTS 2014-2015 NC Alternate Assessment NCEXTEND1 Class Roster Regular test administration									
LEASchCode = ??????????					SchoolName = ??????????				
DateTested = Mar 2015									
Student Name	ELA/English II			Math I			Science/Biology		
	Assess Grade Level	Total Score (0-30)	Achieve Level	Assess Grade Level	Total Score (0-30)	Achieve Level	Assess Grade Level	Total Score (0-30)	Achieve Level
1	04	29	5	04	27	5			
2	05	30	5	05	30	5	05	30	5
3	05	17	3	05	16	2	05	17	2
4	03	24	4	03	25	4			
5	05	29	5	05	28	5	05	27	5
6	03	30	5	03	27	4			
7	03	24	4	03	27	4			
8	03	16	2	03	16	2			
9	03	30	5	03	30	5			
10	04	30	5	04	30	5			
11	03	14	1	03	16	2			
12	05	21	4	05	25	4	05	26	5
13	03	30	5	03	26	4			
14	03	30	5	03	26	4			
15	04	27	5	04	27	5			
16	05	25	4	05	25	4	05	19	2
17	03	30	5	03	26	4			
18	04	27	5	04	28	5			
<b>7</b> Group Mean		25.7			25.3			23.8	

English Language Arts/Reading and mathematics are assessed at grades 3-8.  
Science is assessed at grades 5 and 8.  
English II, Math I and Biology are assessed at grade 10.

Figure 2. Sample Roster Report

## Score Frequency Reports

Frequency tables are used to summarize scores. The Frequency Reports available in WinScan are often used to summarize score information at the class, school, system, and state levels. The WinScan Score Frequency Report presents the frequency, percent, cumulative frequency, and cumulative percent of each score at a specific grade. These reports can be created for each *NCEXTENDI* assessment including ELA/Reading, Mathematics, and Science. Figure 3 presents a sample Score Frequency Report for an *NCEXTENDI* Mathematics Assessment. The *Index of Terms by Label Number* can be used to learn more about each labeled feature of this report.

The Score Frequency Report consists of three sections: the header (section label F1), a summary table for scores (section label F2), and a score frequency distribution table (section label F3).

The header specifies the type of report (Score Frequency), the school year (2014–2015), and that it is an *NCEXTENDI* alternate assessment. The LEASchCode (Label 8), the month of testing (Label 9) and the SchoolName (Label 10) are also listed.

The top row of the summary table (section label F2) indicates that 61 students in this report had valid scores. The highest score was 30 (Label 15) and the lowest score was 10 (Label 16). The mean score was 20.20 (Label 12), the standard deviation was 4.83 (Label 13), and there are two modes, 22 and 17 (Label 14). The percentile scores are listed at the far right of the table (Label 17). The scale scores are listed for the 10th, 25th, 50th, 75th, and 90th percentiles (Label 22). In this sample, a scale score of 23.0 corresponds to a percentile of 75. This means that 75 percent of the 61 students earned a score of 23.0 or less.

In the Frequency Distribution table (section label F3) the subject Score column (Label 2) presents every score earned by the 61 students. The Frequency column (Label 18) on the report presents the number of students who earned each scale score. For example, 4 students earned a scale score of 14.

The Percent column (Label 19) presents the percent of students who earned a given scale score (number of students that earned the score divided by total number of observations). This column shows that 6.56 percent of the students earned a score of 14.

The Cumulative Percent column (Label 20) displays the percent of students who earned up to and including a given scale score. This column shows 91.80 percent of the students earned up to and including a scale score of 26.

The Achievement Level column (Label 3) displays the achievement level associated with each scale score. In this example, a scale score of 20 corresponds to an achievement level of 3.

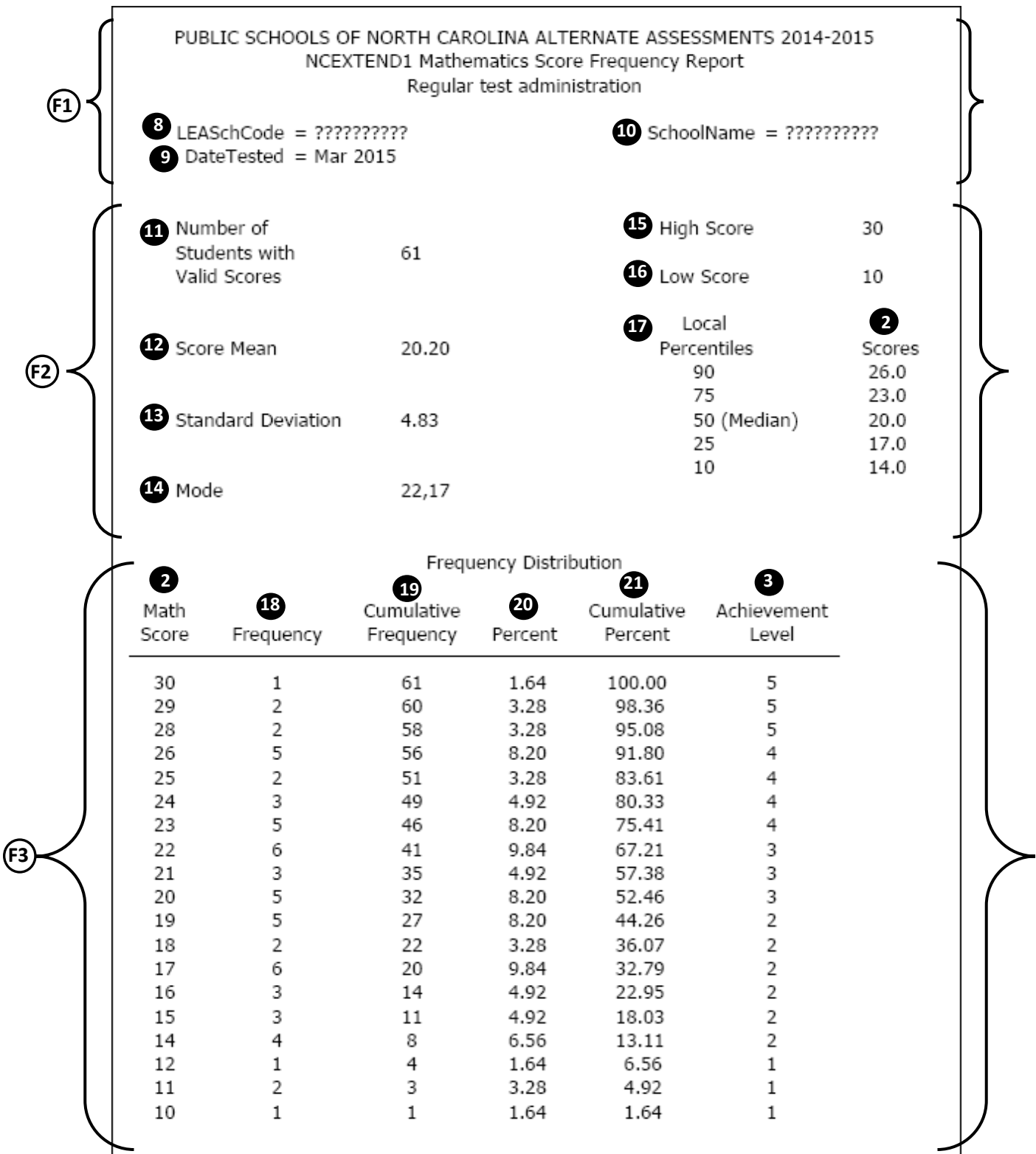


Figure 3. Sample Score Frequency Report for *NCEXTEND1* Assessments

## Index of Terms by Label Number

- ➊ **Student's Achievement Level Descriptor**—These descriptors explain the level of achievement that the student is expected to have mastered given his or her assessment score. The achievement level descriptors can be viewed at <http://www.ncpublicschools.org/accountability/testing//shared/achievelevel>
- ➋ **Score**—The score is the total number of questions the student answers correctly, also called a raw score. The scores for *NCEXTENDI* assessments differ from general assessments in that they do *not* permit comparisons over time. *NCEXTENDI* assessments are not on a vertical scale and thus do not permit year-to-year comparisons.
- ➌ **Achievement Level**—This indicates the level of achievement that the student is expected to have mastered given his or her assessment score. The achievement level descriptors can be viewed at <http://www.ncpublicschools.org/accountability/testing//shared/achievelevel>.
- ➍ **Proficient**—Proficient indicates whether the student has met (Yes) or not met (No) the grade-level proficiency standards.
- ➎ **Levels**—Achievement levels show the level at which a student performed on the assessment. They are predetermined performance standards that allow a student's performance to be compared to grade-level expectations. Five achievement levels (i.e., Levels 1, 2, 3, 4, and 5) are reported. Achievement levels of 3, 4, and 5 indicate grade-level proficiency. Achievement levels of 4 and 5 indicate college and career readiness. The achievement level descriptors can be viewed at <http://www.ncpublicschools.org/accountability/testing/shared/achievelevel/>.
- ➏ **Student**—This blue bar represents the student's score on the particular assessment.
- ➐ **Group Means**—The average of a group of scores. The mean is the sum of all scores in the roster divided by the number of scores in the roster.
- ➑ **LEASchCode** refers to the Local Education Agency (LEA) school code.
- ➒ **DateTested** describes the time of year in which the exam was administered.
- ➓ **SchoolName** refers to the school name.
- ➑ **Number of Students with Valid Scores**—This number is the count of all students who received a score for the group specified for the report.

- 12 Score Mean**—The average of a group of scores. The mean is the sum of all scores included in the report divided by the number of scores in the report
- 13 Standard Deviation**—The standard deviation indicates the degree of variation of scores among a group of students. The larger the standard deviation, the greater the variation there is in scores.
- 14 Mode**—The group mode is the most common score or scores of the group.
- 15 High Score**—The highest score received among a group of students.
- 16 Low Score**—The lowest score received among a group of students.
- 17 Local Percentiles**—The percentile describes the percent of all values of the scale score in the report that are equal to or less than the scale score presented in the next column. The median is the midpoint of the scale score distribution and corresponds to the 50th percentile.
- 18 Frequency**—The frequency column presents the number of students that earned each score.
- 19 Cumulative Frequency**—The value in the cumulative frequency column in a frequency table is the total number of students who earned all scores up to and including the score in the same row.
- 20 Percent**—The percent column presents the percent of the total number of students who earned each score (number of students that earned the score divided by the total number of observations).
- 21 Cumulative Percent**—The value in the cumulative percent column is the percent of students who earned all scores/achievement level up to and including the score/achievement level in the same row.