

## **2007-2008 SCHOOL PERFORMANCE GRADES SUMMARY**

The school performance grade includes four (4) measures of student achievement (proficiency components) and four (4) measures of student learning gains (gains component). School performance grades are determined by the accumulation of percentages points for these eight (8) measures of achievement and are calculated as follows:

### **Four (4) Proficiency Components:**

1. One (1) point for each percent of students who score at or above FCAT Achievement Level 3 in Reading.
2. One (1) point for each percent of students who score at or above FCAT Achievement Level 3 in Mathematics.
3. One (1) point for each percent of students who score 3.5 or higher on the FCAT Writing test (essay).
4. One (1) point for each percent of students who score at or above FCAT Achievement Level 3 in Science.

### **Four (4) Gains Components:**

1. One (1) point for each percent of student who make learning gains in Reading.
2. One (1) point for each percent of students who make learning gains in Mathematics.
3. One (1) point for each percent of the lowest 25% performing students who make learning gains in Reading.
4. One (1) point for each percent of the lowest 25% performing students who make learning gains in Mathematics.

**These point are added together and converted into a school performance grade based on the following scale:**

<b><u>GRADE</u></b>	<b><u>2007-2008</u></b>
A	525 or more points
B	495-524
C	435-494
D	395-434
F	Less than 395

**In addition to the accumulation of percentage points for each of the eight (8) performance measures, schools are also evaluated on the basis of three (3) other conditions:**

- **Percent Tested:**

- Schools earning enough points to receive an "A" must test at least 95% of their eligible population.
- Schools earning enough points to receive a "B", "C", or "D" must test at least 90% of their eligible population.

## **2007-2008 SCHOOL PERFORMANCE GRADES SUMMARY**

- Schools not meeting the percentage tested will receive one (1) letter grade lower than otherwise indicated by the points earned.
- **Adequate Progress of the Lowest 25% in Reading and Mathematics:**
  - Schools earning enough points to receive an “A” must demonstrate that at least half of the lowest 25% performing students make annual learning gains in Reading and Math in the current year.
  - Schools earning enough points to receive a “B” or “C” must demonstrate that at least half of the lowest 25% performing students make annual learning gains in Reading and Math in either the current year or the previous year, must be both in the same year.
  - Schools not meeting adequate progress will receive one (1) letter grade lower than otherwise indicated by the points earned.
- **Retakers of Grade 11 and 12:**
  - Ten Bonus points are earned if 50% of 11<sup>th</sup> and 12<sup>th</sup> graders retaking the FCAT in Reading and 50% of 11<sup>th</sup> and 12<sup>th</sup> graders retaking the FCAT in Mathematics receive a passing score. This computation excludes children who meet the graduation requirement based on the SAT or ACT alternate assessment.

## **2007-2008 SCHOOL PERFORMANCE GRADES FREQUENTLY ASKED QUESTIONS**

### **What schools are eligible to be graded?**

Any school with at least 30 “standard curriculum” students with valid FCAT scores in both the current and the previous year who were enrolled in the same school for the October FTE and the February FTE periods is eligible.

### **Which students are included in the school performance grade calculation?**

- **Performance Components:**

All “standard curriculum” students enrolled in the same school for the October FTE and the February FTE periods with valid FCAT scores in the current year.

Standard curriculum students exclude Limited English Proficient (LEP) students who entered less than two (2) years before the first day of the FCAT Writing test, but include Exceptional Student Education (ESE) students that are gifted, speech impaired, or hospital/home bound.

- **Learning Gains Components:**

All students (including LEP and ESE students) enrolled in the same school for the October FTE and February FTE periods with valid FCAT scores in both the current and the previous year.

### **Who is included in percent tested?**

All students enrolled in the same school for the October FTE and the February FTE periods are included in the participation calculation unless the student took an alternate assessment. An “A” school must test at least 95% of their eligible population and all others must test at least 90%. Schools not meeting these requirements will receive one (1) letter grade lower than otherwise indicated by the points earned. An adjustment to the numerator/denominator is made when a student answered too few items or if their test was invalidated. This is to ensure it does not count against the school’s percent tested.

### **What are the standards for meeting the proficiency requirements?**

- Achievement Level 3 or above in Reading.
- Achievement Level 3 or above in Mathematics.
- Achievement Level 3 or above in Science.
- A score of 3.5 or higher in Writing (essay only).

### **What constitutes learning gains?**

Students make learning gains by any of one of the following methods:

- Improving by one or more FCAT achievement levels;
- Maintaining FCAT achievement levels 3, 4, or 5; or
- For non-retained students at achievement levels 1 or 2; showing more than one year’s growth on FCAT Developmental Scale Scores (DSS).

## **2007-2008 SCHOOL PERFORMANCE GRADES FREQUENTLY ASKED QUESTIONS**

### **Do retained students affect the school performance grade?**

Retained students count in the school performance grade. They are included in all components. However, in order for a retained student to make learning gains they must either increase their achievement level or maintain their level if in level 3, 4 or 5.

### **Are ESE students who took the alternative test included in the school performance grade?**

No.

### **How does Adequate Yearly progress in Reading and Mathematics affect the school performance grade?**

- Adequate Yearly Progress means that half of the students scoring in the lowest 25% demonstrated a year's worth of learning gains.
- A school preliminarily designated as performance grade "A" that does not make Adequate Yearly Progress in Reading and Mathematics in the current year will receive a "B" as the final performance grade.
- A school preliminarily designated as performance grade "B" or "C" that does not make Adequate Yearly Progress in Reading and Mathematics in the current **AND** the previous year will receive one letter grade lower as the final performance grade.

### **How does the state determine the population for the lowest 25% in Reading and in Mathematics?**

The lowest 25% is based on ranking students on the prior year's FCAT developmental reading or mathematics score. Only students at FCAT achievement levels 1, 2, and 3 are included in the ranking.

### **Does the multiple choice portion of the Writing test count in the school performance grade?**

For the 2007-2008 school year, the multiple choice portion of the FCAT Writing test is not part of the of the school performance grade calculation.

### **What substitutions are made in the school performance grade calculation when fewer than 30 eligible students are tested?**

- Lowest 25% Reading gains substituted with Reading Learning Gains for all students.
- Lowest 25% Math gains substituted with Math Learning Gains for all students.
- Writing Proficiency substituted with the district's average writing score for the specific grade level.
- Science Proficiency substituted with the district's average science score for the specific grade level.

**2007-2008 SCHOOL PERFORMANCE GRADES  
FREQUENTLY ASKED QUESTIONS**

**Are retained 10<sup>th</sup> grade students who previously passed the FCAT included in the school performance grade calculation?**

No.

FLDOE technical assistance paper is available at:

<http://schoolgrades.fldoe.org/pdf/0607/2007SchoolGradesTAP.pdf>

# **2007 Guide to Calculating School Grades**

## **Technical Assistance Paper**

### **2006-07**



**Florida Department of Education**  
**Jeanine Blomberg, Commissioner**

This technical assistance paper was prepared by staff in the Evaluation and Reporting Office, Division of Accountability, Research, and Measurement. Questions? Please call (850) 245-0411 or email [evalnrpt@fldoe.org](mailto:evalnrpt@fldoe.org).

# 2007 Guide to Calculating School Grades Technical Assistance Paper

## I. Overview

### Introduction

The purpose of this technical assistance paper is to provide a description of the procedures used to determine School Grades for the 2007 school year. In 2007, the school grades include four measures of student achievement and four measures of student learning gains, the same six components that have been used for the last five years and two new components, percent meeting high standards in science and the lowest 25 percent making learning gains in mathematics. Florida's School Accountability System is being implemented as envisioned by the A+ Plan, passed by the 1999 Florida Legislature. Florida is one of the few states that can track student demographic information from year to year and the first to track annual student learning gains based on the state's academic standards.

School grades have been issued since 1999 with the Florida Comprehensive Assessment Test (FCAT) being the primary criterion in calculating school grades. In 2002, significant improvements were made in how school grades were calculated to fully implement the intent of the A+ Plan. The most noteworthy improvement was the inclusion of student learning gains. Additionally, a measure was added to determine whether the lowest performing students are making annual improvements in reading. Florida's accountability system allows the improvement of individual students to be tracked from one year to the next based on FCAT developmental scores in reading and mathematics in grades 3 through 10.

This paper contains two sections: the Overview (Section I) and the Process for Calculating School Grades (Section II). These sections describe a series of procedures for determining a school's final grade and are intended for knowledgeable audiences who are interested in the details of determining the school grades. A more general and concise description of the school grading system is found on the school grading "guide sheet," *Grading Florida Public Schools 2006-2007*, included as Attachment A and also available on the Department of Education website at <http://schoolgrades.fldoe.org/pdf/0607/2007SchoolGradesTAPcom.pdf>.

### Specific Authority

The authority for Florida's system of school accountability is detailed in Florida Statute and State Board of Education Rule. It is not the intent of this section to provide a detailed description of the specific contents of the state law and rule. Readers interested in the additional legal information should consult the source documents.

#### Florida Statutes - Section 1008.34 F.S.

This section of Florida law requires the Commissioner of Education to prepare annual reports of student performance for each school and district in the state. The law

specifies the grade categories, the timeframes, and the types of information to be included in the calculations. Further, the law directs the State Board of Education to adopt appropriate criteria for each school grade category and requires that added weight be given to student achievement in reading.

#### State Board Rule 6A-1.09981

This Rule describes the implementation requirements for Florida's System of School Improvement and Accountability. The State Board of Education revised this rule in November 2003 and March 2006 for clarification and to bring it into closer compliance with the statute. The rule provides policy information as well as procedural guidance for implementing the program. It also specifies which schools are included in the system and the criteria for designating the school grades. In addition, the rule describes the rewards and recognition for schools and the assistance and intervention provisions for low performing schools (D and F).

#### **Summary of the School Grading Criteria**

The FCAT is the primary measure of students' achievement of the Sunshine State Standards. School grades are determined by the accumulation of percentage points for eight measures of achievement in addition to two other conditions.

Section 6A-1.09981 of the State Board of Education Rule describes the eight performance measures included in the overall grade for a school. Points are calculated as follows:

***NOTE: Following the release of the 2007 FCAT results, analysis indicated that the results of the 2006 third grade FCAT Reading exam are anomalous. The anomaly has several dimensions both external and internal to the testing. However, without an immediate solution to re-score the exam, the State Board of Education ruled on June 19, 2007, to calculate the 2007 School Grades by excluding the 2006 third grade FCAT Reading results, with safeguards in place to ensure that no school is disadvantaged by the decision. In 2007, the percent of students making learning gains in reading is calculated with the 2005-2006 third grade FCAT reading scores and without the 2005-2006 FCAT reading scores. The gain percentages are compared and highest percentage is used in determining the total points earned. This is also done for the percent of low performing students making learning gains in reading.***

1. One point for each percent of students who meet high standards by scoring at or above FCAT Achievement Level 3 in reading.
2. One point for each percent of students who meet high standards by scoring at or above FCAT Achievement Level 3 in mathematics.
3. One point for each percent of students who meet high standards by scoring at or above FCAT Achievement Level 3 in science.
4. One point for each percent of students who meet high standards by scoring 3.5 or higher on the FCAT writing assessment. In the event that there are not at



least 30 eligible students tested in writing, the district average in writing is substituted.

5. One point for each percent of students making learning gains in reading.
6. One point for each percent of students making learning gains in mathematics.
7. One point for each percent of the lowest performing students making learning gains in reading. In the event that there are not at least 30 eligible students, the school's reading learning gains are substituted.
8. One point for each percent of the lowest performing students making learning gains in mathematics. In the event that there are not at least 30 eligible students, the school's mathematics learning gains are substituted.

**FCAT Retake Bonus Points for High Schools:** High schools will be eligible to earn (10) bonus points to their total school grade points if at least half of the 11<sup>th</sup> and 12<sup>th</sup> grade students in the school required to take the grade 10 FCAT retake meet the FCAT graduation requirement. There must be 10 eligible students in order to receive the bonus. Points will not be split; the bonus is all or nothing.

These points are added together and converted into a school grading scale, shown below in Table 1.

<b>Table 1</b>	
<b>2007 School Grading Scale</b>	
<b>Grade</b>	<b>Total points</b>
A	525 and above
B	495-524
C	435-494
D	395-434
F	Less than 395

In addition to the accumulation of percentage points for each of the eight performance measures, schools are also evaluated on the basis of two other conditions:

1. **Percent Tested:** Schools earning enough total points to earn a grade of A must also test at least 95% of their eligible students. All other letter grade designations are based on a minimum of 90% tested. If any school tests fewer than 90% of their students, the school will initially receive an "I" (incomplete). After investigation, if the percent tested remains less than 90%, the final grade will be lower than indicated by the total points accumulated.
2. **Adequate Progress of the Lowest Reading and Mathematic Students:** A school with enough points to earn an "A" must show adequate progress of the low 25% in both reading and math for the current year. A school with enough points to earn a "B" or "C" must show adequate progress of the low 25% in both reading and math for either the current or previous year. The final grade will be reduced

one letter grade for schools failing to meet this criterion.

For purposes of this calculation, the lowest students are the lowest quartile (or 25%) of students scoring in levels 1-3 of the FCAT reading and mathematics in each grade. The lowest 30 students are substituted when there are not 30 in the lowest quartile. In the event that there are not 30 eligible students scoring in FCAT Achievement Level 3 or below in reading, the percent of students making annual learning gains in reading for all students is substituted for this performance measure. In the event that there are not 30 eligible students scoring in FCAT Achievement Level 3 or below in mathematics, the percent of students making annual learning gains in mathematics for all students is substituted for this performance measure.

See Attachment A for a schematic description of the school grading system. Further clarification of the details involved in the calculation of school grades is in the next section of this paper.

## II. Process for Calculating School Grades

This section of the paper describes in sequential order the processes involved in evaluating the performance of each school and determining a school grade.

### 1. Identify the Schools to be Graded

Pursuant to State Board Rule, the Commissioner will determine the school types to earn school grades. All schools serving at least 30 eligible students with valid FCAT scores in reading and math in both the current year and the previous year will earn school grades. This includes new schools. Department of Juvenile Justice Schools and Alternative Schools do not earn school grades.

### 2. Identify the Students to be Included

All students enrolled in the same school for a full academic year are included in the school grades calculation. The performance of students who are standard curriculum, speech impaired, gifted, hospital homebound, and English language learners who have been in an English for Speakers of Other Languages (ESOL) program for more than two years are also included in all components of the school grade calculation. Students who are in exceptional student education and are English language learners for less than two years are included only in the participation and learning gains components of the school grade; they are not included in the components for meeting high standards in reading, math, and writing.

To identify which of the eight components of the school grade calculation in which a student should be included, the electronic record of each student in a school must be reviewed to determine his/her eligibility. The following steps briefly describe the process:

Step 2.1 – Determine student SWD and ELL classifications on Survey 3: The Students With Disabilities (SWD) classification and English language learners (ELL) status of each student is determined, and the student is identified as “included” for all components of the school grade if eligibility criteria is met.

a) SWD Status: The electronic record for each student contains up to 20 possible SWD classifications, as well as the student’s entry date into the SWD program. SWD students are included in the school grade calculations when their only exceptionality is gifted (L), hospital/homebound (M), speech impaired (F), or a combination of those three. Students with any other disability are not included in school grades. Students must be enrolled in an SWD program prior to testing to be excluded from the school grading calculation.

b) ELL Status: ELL students are included in the school grading system when they have been in an English for Speakers of Other Languages (ESOL) program for more than two years prior to testing.

If a student is in exceptional student education or is English language learners and does not meet the criteria set forth in a) or b), the student is included only in the calculation of participation and learning gains components.

Step 2.2 – Determine full academic year status: Students are included in the school grading system if they have been enrolled in the same school for a full academic year. Students are considered continuously enrolled for a full academic year if they were enrolled in the same school during the October and February FTE (full-time equivalent) counts. This determination is made by matching the “Student Number Identifier, Florida” in the Survey 3 file to the “Student Number Identifier, Florida” in the Survey 2 file by district and school.

Step 2.3 – Identify the grade 10 students who have previously passed the FCAT: Grade 10 students who have previously passed the grade 10 FCAT reading and/or mathematics will not be included in the school grading calculations. The identification process is completed separately for reading and for mathematics. Because there is no passing score for FCAT Writing, all enrolled tenth grade students must take the writing test, even if they have already passed the reading and/or mathematics tests.

Step 2.4 – Obtain corrections from the school districts: Lists of students to be included in school grades are identified by the Department and shared with the school districts in electronic form. Corrections and updates are submitted directly to the Evaluation and Reporting Office, and corrected files are posted for district review. Districts are given the opportunity to correct data twice. Any errors that remain after the second round of corrections cannot be corrected during the appeals process. A general description of the correction/update process is provided below.

- a. Unmatched Identification Numbers: If there are students who were present for a full academic year but the student ID on Survey 2 does not match the student ID on Survey 3, this results in unmatched records. Districts are required to match these students by providing one student ID to the Office of Evaluation and Reporting.
- b. Non-public school students taking courses at public schools: Home schooled and private school students who receive services from a public school are excluded from calculations if N998/9998 (Home Education) or N999/9999 (Private School) is reported as the primary school number in the “Current Enrollment” field of Survey 3. For students whose primary instructional school has been misidentified, districts must report the correct primary school number to the Office of Evaluation and Reporting.
- c. ELL status during FCAT is different from Survey 3: Only ELL students who were enrolled in an ESOL program for more than 2 years at the time of testing are included school grade calculations. Updated information must be provided for students who enroll in an ESOL program after Survey 3 but before testing (March X in 2007 for all districts, except Broward and Dade because they tested late, it is March XX, 2007).

- d. SWD status during FCAT is different from Survey 3: All students who are enrolled in designated SWD programs prior to testing are not included in school grade calculations (exemptions noted above). Updated information must be provided for students who are enrolled in a program after Survey 3 but before testing (March X in 2007 for all districts, except Broward and Dade because they tested late, it is March XX, 2007).
- e. Withdrawal, promotion, and demotion status prior to testing: All students who were withdrawn from school or who were promoted or demoted out of the FCAT testing range after Survey 3 and prior to FCAT testing must be identified for exclusion from the school grade calculation.
- f. 10th grade FCAT graduation requirements met prior to testing: All 10<sup>th</sup> grade retained students who have passed the reading and/or math FCAT prior to testing are not included in the school grade calculation. Districts must ensure that these students are appropriately identified.
- g. Inaccuracies in the data reported in Survey 3: Districts were given an opportunity to correct inaccuracies in data used for the school accountability calculations and reported in Survey 3.

Step 2.5 – Creation of the Membership File: Upon completion of both rounds of error corrections, a final file is created and referred to as the Membership File. The Membership File is used for all accountability calculations.

### **3. Obtain Student FCAT Scores**

The Evaluation and Reporting Office works closely with the K-12 Assessment staff to obtain accurate FCAT data on all students. The matching process is similar to that used for the matching of Survey 2 and 3. After the initial matching process is complete, districts are provided a list of unmatched and mismatched students. School districts must return updated and corrected information for each student. The extent to which this step is completed correctly by the school districts affects the Department's ability to include the maximum number of eligible students in the school grading process. The matching and corrections processes are briefly summarized below.

Step 3.1 – Identify FCAT records with blank or duplicate Student IDs: For records with a blank or duplicate FCAT Student ID, districts must provide the matching student ID from the Membership File for inclusion of student results.

Step 3.2 – Match Membership files to FCAT files by district, school, and student ID: The Membership File is matched to FCAT files using district, school, and student ID. Unmatched records are flagged and districts must provide the matching fields from the Membership File for inclusion of student results.

Step 3.3 – Identify FCAT records that have missing prior year FCAT data: Any record that does not contain prior year test results will be flagged. Districts must report correct

prior year print after scan numbers that are associated with the missing data for Reading, Math, Science, and Writing.

Step 3.4 – Update FCAT records with district corrections: Upon completion of error corrections, student results in the FCAT file should be closely matched to the students enrolled in the Membership File.

Note: This process is completed for all students tested not just those to be included in the school grading process. This is important for two reasons. First, scores for these students might be needed for determining learning gains the following year if the students become eligible for inclusion, e.g., students in limited English programs for more than two years. Secondly, because all students are included in determining Adequate Yearly Progress under the federal No Child Left Behind Act, it is necessary to correct all Student IDs.

#### **4. Compute the Percentage Points for Each Performance Measure**

The eight performance measures evaluated as part of determining school grades can be grouped into three categories:

- The percent of students achieving high standards (steps 4.1-4.4),
- The percent of students making learning gains (steps 4.4-4.5), and
- The percent of the lowest performing students who make learning gains (steps 4.6-4.7).

Although the computations are similar within each category, the computations for each performance measure are described separately in the following sections.

Step 4.1 – Calculate Reading Performance: This component focuses on the extent to which eligible students scored sufficiently high on the reading portion of the FCAT to be considered “on grade level.” Schools accumulate one point for each percent of eligible students scoring in FCAT Achievement Levels 3, 4, and 5 in reading. The number of eligible students scoring in levels 3-5 is divided by the total number of eligible students who took the FCAT reading test.

Step 4.2 – Calculate Mathematics Performance: This component focuses on the extent to which eligible students score sufficiently high on the mathematics portion of the FCAT to be considered “on grade level.” Schools accumulate one point for each percent of eligible students scoring in FCAT Achievement Levels 3, 4, and 5 in mathematics. The number of eligible students scoring in levels 3-5 is divided by the total number of eligible students who took the FCAT mathematics test.

Step 4.3 – Calculate Science Performance: This component focuses on the extent to which eligible students score sufficiently high on the science portion of the FCAT to be considered “on grade level.” Schools accumulate one point for each percent of eligible students scoring in FCAT Achievement Levels 3, 4, and 5 in science. The number of eligible students scoring in levels 3-5 is divided by the total number of eligible students who took the FCAT science test.

Note: If fewer than 30 eligible students were tested in science, the district science average is substituted for science.

Step 4.4 – Calculate Writing Performance: This component recognizes the traditional objective that students be able to write a composition that meets at least minimal requirements. The percentage points earned take into account the percent of students scoring 3.5 and above. The number of eligible students scoring 3.5 and above is then divided by the number of eligible students who took the writing test.

In a hypothetical school, there were 131 eligible students who took FCAT Writing. Ninety-four students scored 3.5 and above. The percent meeting high standards in writing at this hypothetical school is 72%: (94 students 3.5 and above/131 eligible students).

Note: If fewer than 30 eligible students were tested in writing, the district writing average is substituted for writing.

Step 4.4 – Calculate Reading Gains: Including learning gains as a performance measure for determining school grades was initiated in 2002. It emphasizes the importance of learning a year's worth of knowledge in a year's worth of time. Individual student learning gains are determined by comparing each student's prior year test score to the current year test score using three different methods. Schools earn one point for each percent of students who make learning gains in reading. Students make learning gains by any one of the three methods described below.

***NOTE: In 2007, the percent of students making learning gains in reading is calculated with the 2005-2006 third grade FCAT reading scores and without the 2005-2006 third grade FCAT reading scores. The gain percentages are compared and the highest percentage is used in determining the total points earned.***

Students can

- a. improve one or more achievement levels, e.g., from 1-2, 2-3, 3-4, or 4-5;
- b. maintain their achievement levels within levels 3, 4, or 5; or
- c. demonstrate more than one year's growth when remaining in achievement level 1 or 2 for both years. Under this alternative, one year's growth is defined in terms of the difference between a student's current year and prior year FCAT developmental score. Students who remain in levels 1 or 2 are credited with learning gains for reading if they improve more than the cut-off scores shown in Table 3.

Note: Retained students are included in methods a. and b. above but not in method c. because the definition of one year's growth is based on taking the FCAT at the next higher grade. Also, when achievement level scores drop, e.g., 4→3, they are not included in the calculation of learning gains, even if the lower score is on or above grade level.

<b>Table 3</b> <b>One Year's Growth Definition for</b> <b>FCAT Reading Developmental Scores</b>						
Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10
230	166	133	110	92	77	77

**Step 4.5 – Calculate Mathematics Gains:** This component is parallel to the reading procedure described in step 4.4. Individual student learning gains are determined by comparing each student's prior year test score to the current year test score using three different methods. Schools earn one point for each percent of students who make learning gains in mathematics. Students make learning gains by any one of the three methods described below.

Students can

- improve one or more achievement levels, e.g., from 1-2, 2-3, 3-4, or 4-5;
- maintain their achievement levels within levels 3, 4, or 5; or
- demonstrate more than one year's growth when remaining in achievement level 1 or 2 for both years. Under this alternative, one year's growth is defined in terms of the difference between a student's current year and prior year FCAT developmental score. Students who remain in levels 1 or 2 are credited with learning gains for mathematics if they improve more than the cut-off scores shown in Table 4.

**Note:** Retained students are included in methods a. and b. above but not in method c. because the definition of one year's growth is based on taking the FCAT at the next higher grade. Also, when achievement level scores drop, e.g., 4→3, they are not included in the calculation of learning gains, even if the lower score is on or above grade level.

<b>Table 4</b> <b>One Year's Growth Definition for</b> <b>FCAT Mathematics Developmental Scores</b>						
Grade 4*	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10
162	119	95	78	64	54	48

**Step 4.6 – Calculate reading gains for the lowest performing students:** Special attention is given to the reading gains of the lowest 25% of students or lowest 30 scoring in FCAT achievement levels 1, 2, or 3 in each school.

**NOTE:** In 2007, the percent of low performing students making learning gains in reading is calculated with the 2005-2006 third grade FCAT reading scores and without the 2005-2006 third grade FCAT reading scores. The low gain percentages are compared and the highest percentage is used in determining the total points earned.



The students included in the calculations for this component are students who

- a. meet all criteria for inclusion in school grade calculations for the current year;
- b. have both a prior year score and a current year score on FCAT reading;
- c. are ranked in the lowest 25% based on their prior year FCAT reading developmental scale scores; and
- d. have a prior year score less than or equal to an achievement level 3 score.

Step 4.7 – Calculate mathematics gains for the lowest performing students: Special attention is given to the mathematics gains of the lowest 25% of students or lowest 30 scoring in FCAT achievement levels 1, 2, or 3 in each school.

The students included in the calculations for this component are students who

- a. meet all criteria for inclusion in school grade calculations for the current year;
- b. have both a prior year score and a current year score on FCAT reading;
- c. are ranked in the lowest 25% based on their prior year FCAT mathematics developmental scale scores; and
- d. have a prior year score less than or equal to an achievement level 3 score.

The lowest 25 percent in reading and the lowest 25 percent in mathematics is determined using the same method but applied to reading data and mathematics data. The procedure used to identify the lowest 25% of the students in a school is applied separately by grade, and the identified students are combined across all grades to determine learning gains. The first step is to rank the scores of all students in the grade from highest to lowest based on their prior year reading developmental scale scores. Students without a prior year score are not included. The second step is to identify the developmental scale score that corresponds to the percentile rank of 25. This is not the same as sorting the scores descending as ranking allows for duplicate scores. This scale score becomes the boundary score. The boundary score must not be in FCAT achievement levels 4 or 5. Any student who has a score equal to or below the boundary score is included in the lowest 25%. Students from all grades are combined to form the total pool of students to be evaluated. If the total number of students in the lowest 25% is 30 or more, the percent making learning gains is calculated as described in Steps 4.4 and 4.5.

If the total number of students in the lowest 25% is less than 30, then the following iterative process is used to determine the 30 or more students who will be included in the lowest performing group. The next developmental scale score higher than the boundary score is identified (separately for each grade). If this new boundary score is equal to or less than an achievement level 3 score, then all students attaining the next higher developmental scale score for each grade are identified and included in the lowest performing group. If the number of students at this point is not at least 30, the step is repeated. After thirty or more students are identified, the percent making learning gains is determined as described in Steps 4.4 and 4.5.

If there are not 30 or more students who scored at or below achievement level 3 in the prior year, the reading or mathematics gains respectively of all students will be substituted.

The examples in Table 5 illustrate how this component is evaluated.

<b>Table 5</b> <b>Example of Learning Gains for the Lowest 25% in Reading</b>		
	Shell Elementary School	Dolphin Middle School
Number of eligible students included in the current year school grade	125	1050
Number of eligible students with prior year FCAT reading scores	100	1000
Students in the lowest 25% based on the prior year's FCAT reading scores that are less than or equal to an achievement level 3 score	25	250
Is the number 30 or more?	No	Yes
Identify next higher developmental scale score for each grade that is less than or equal to an achievement level 3 score and add the students attaining that score to the group	29	
Is the number 30 or more?	No	
Identify next higher developmental scale score for each grade that is less than or equal to an achievement level 3 score and add the students attaining that score to the group	40	
Is the number 30 or more?	Yes	
Number showing learning gains	12	150
Percent showing learning gains	30% (12/40)	60% (150/250)
If there are not 30 or more students who scored at or below achievement level 3 in the prior year, the reading gains of all students will be substituted.	If <30 Substitute Reading Gains of All students	

## 5. Determine Retake Bonus Points for High Schools

Students included in the bonus points calculation for retakes are standard curriculum, speech impaired, gifted, hospital homebound, and English Language Learners (ELL) who have been in the English for Speakers of Languages (ESOL) program for more than two years. This is the same criteria for inclusion in meeting the high standards components of school grades except students are in 11<sup>th</sup> or 12<sup>th</sup> grade during 2006-07 (the current year).

Eligibility for the retake calculation is applied in the following order:

### Eligibility for Denominator:

- a. Students who have not met the Reading and/or Math FCAT graduation requirement following the March 2006 administration.
- b. Students enrolled full time for two consecutive years (the 2005-06 and 2006-07 school years).
- c. During 2005-2006 (the previous year) students can be in 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade.
- d. Students are in 11<sup>th</sup> or 12<sup>th</sup> grade during 2006-07 (the current year).

Districts will have the opportunity to identify students who met the Reading and/or Math FCAT graduation requirement through a concordant test score on the assessment retake web application. These students will be excluded from the calculation.

### Eligibility for Numerator:

- a. Student is in the Denominator
- b. Reading and/or Math FCAT with a scale score of at least 300 on the Summer 2006, Fall 2006, and Spring 2007 administrations. If records are duplicated within an administration only the highest record is kept.

### Retake Calculation:

- a. The criteria for determining the retake bonus apply when there are at least 10 students in the denominator for both Reading and Math
- b. Numerator / Denominator = retake percent
- c. There must be at least 50 percent meeting the FCAT graduation requirement in both Reading and Math in order to earn 10 bonus points.

The requirement to be enrolled in the same school for two consecutive years is so districts will not be held responsible for students that were only enrolled in the school for a brief amount of time. Also, the determination that the student be enrolled in 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade the prior year is required because students should be taking the 10<sup>th</sup> grade FCAT. Students in 9<sup>th</sup> grade that are promoted to 11<sup>th</sup> grade are not included.

## 6. Determine the Percent Tested

The procedure for estimating a school's percent tested was developed long before school grades were first calculated. Starting in 1995, the estimating procedure was developed in cooperation with district testing directors and has been modified only slightly over the years. It has always been a straightforward approximation.

The estimate of the percent tested is calculated by dividing the total number of eligible students tested in each subject by the number of eligible students in membership who are expected to take each subject test. Eligibility for school grades participation is defined as those students who are enrolled in the same school for a full academic year. All students are included in the participation calculation unless the student took an alternate assessment because the Florida Comprehensive Assessment Test was not appropriate for the student due to a disability or limited English proficiency. Note that this is a different calculation and population than those students used to calculate percent tested for the No Child Left Behind (NCLB) Adequate Yearly Progress (AYP).

The example in Table 6 shows how the percent tested for a hypothetical high school is calculated.

<b>Table 6</b> <b>Example for Estimating the Percent Tested</b>			
	Number Tested	Eligible Membership	Percent Tested
Reading	620	640	
Mathematics	640	650	
Writing	340	350	
Science	345	350	
Totals	1945	1990	98%

An adjustment of the membership is included to take into account that some students in the membership have actually taken FCAT, but those scores never show up because the students may have answered too few items to generate a score or their test was invalidated due to a testing irregularity. Another adjustment is included for retained grade 10 students who have previously taken and passed the FCAT. These adjustments are accomplished by either adjusting the number tested (the numerator) or the number in membership (the denominator) as appropriate.

## 7. Determine the Total Points and the Final School Grade

This step is very straightforward.

1. All percentage points are accumulated for each performance measure and added together to obtain the total points.
2. Schools earning enough total points to earn a grade of A must also test at least 95% of their eligible students. All other letter grade designations are based on a minimum of 90% tested. For schools testing less than 90%, the final grade may be one letter grade lower than indicated by the total points accumulated.
3. A school with enough points to earn an "A" must show adequate progress of the low 25% in both reading and math for the current year. A school with enough points to earn a "B" or "C" must show adequate progress of the low 25% in both reading and math for either the current or previous year. The final grade will be reduced one letter grade for schools failing to meet this criterion. A school's grade can only be lowered once for the lowest performing students. The grade will not be lowered twice if the school does not meet the requirement for both reading and mathematics.
4. Schools that have at least half of the grade 11 and 12 students retaking the grade 10 and meeting the graduation requirement reading and mathematics FCAT will be awarded 10 bonus points on top of the eight components.

<b>Table 7</b> <b>Summary of School Grading Criteria</b>	
<b>Grade</b>	<b>Grading Criteria</b>
A	<ul style="list-style-type: none"> <li>• 525 points or more</li> <li>• 95% tested or more</li> <li>• Make adequate progress (50%) in the current year with the lowest performing students</li> </ul>
B	<ul style="list-style-type: none"> <li>• 495 to 524 points</li> <li>• 90% tested or more</li> <li>• Make adequate progress (50%) with the lowest performing students in either the current or the previous year</li> </ul>
C	<ul style="list-style-type: none"> <li>• 435 to 494 points or more</li> <li>• 90% or greater tested</li> <li>• Make adequate progress (50%) with the lowest performing students in either the current or the previous year</li> </ul>
D	<ul style="list-style-type: none"> <li>• 395 to 434 points or more</li> <li>• 90% tested or more</li> </ul>
F	<ul style="list-style-type: none"> <li>• Fewer than 395 points</li> <li>• 90% tested or more</li> </ul>
I	<ul style="list-style-type: none"> <li>• Less than 90% tested (Schools initially receive a grade of "incomplete" while the status is investigated.)</li> </ul>

## **8. Review of School Grades**

State Board Rule 6A-1.09981(9) requires each district to have an accountability contact person to verify that each school is appropriately classified, that students have been correctly identified and properly included for school grading, that matching FCAT records and previous year FCAT records can be identified, and that each school grade was calculated as specified in the Rule. The Rule also permits a 30-day period of time for districts to review the grade assigned. Therefore, the Florida Department of Education has instituted an appeals process described in this section. Requests for grade changes related to the specific requirements of the statute or rule cannot be granted and should not be submitted.

If a school district identifies a data miscalculation or circumstances that might result in the assignment of a different grade, the district can participate in the school grade review process. Appropriate documentation of all elements and data to be reviewed by the Department must be submitted within thirty (30) days from the date of the school grades release. These requests must be submitted by the school district accountability contact rather than by individual schools. Appeals that do not comply with the detailed instructions from the Department will not be reviewed.

Following the thirty (30) day appeal window, the Department of Education will review the appeals documentation and present recommendations to an appeals committee for their review and recommendations. Final recommendations will be made to the Commissioner of Education, and the Commissioner's determination of a school's grade shall be final. The Department will notify each district Superintendent and accountability contact of the final school grade after the final decision of the Commissioner. Local district officials, as designated by the Superintendent, are responsible for notifying individual schools.

# Grading Florida Public Schools

2006-07



FLORIDA DEPARTMENT OF EDUCATION  
Jeanine Blomberg, COMMISSIONER

School grades for 2006-07 utilize a point system. Schools are awarded one point for each percent of students who score *high on the FCAT and/or make annual learning gains*.

## Scoring High on the FCAT

The Florida Comprehensive Assessment Test (FCAT) is the primary measure of students' achievement of the Sunshine State Standards. Student scores are classified into five achievement levels, with 1 being the lowest and 5 being the highest.

- ⇒ Schools earn one point for each percent of students who score in achievement levels 3, 4, or 5 in **reading**, one point for each percent of students who score 3, 4, or 5 in **mathematics**, and one point for each percent of students who score 3, 4, or 5 in **science**. If a school has fewer than 30 students with science scores, the district average for science will be used.
- ⇒ The **writing** exam is scored by at least two readers on a scale of 1 to 6. Schools earn one point for each percent of students scoring 3.5 or above. If a school has fewer than 30 students with writing scores, the district average for writing will be used.

## Making Annual Learning Gains

Since FCAT **reading and mathematics** exams are given in grades 3 – 10, it is possible to monitor how much students learn from one year to the next.

- ⇒ Schools earn one point for each percent of students who make learning gains in **reading** and one point for each percent of students who make learning gains in **mathematics**. Students can demonstrate learning gains in any one of three ways:
  1. Improve achievement levels from 1-2, 2-3, 3-4, or 4-5; **or**
  2. Maintain within the relatively high levels of 3, 4, or 5; **or**
  3. Demonstrate more than one year's growth within achievement levels 1 or 2 (does not include retained students).
- ⇒ Special attention is given to the reading and mathematics gains of students in the lowest 25%<sup>1</sup> in levels 1, 2, or 3 in each school. Schools earn one point for each percent of the lowest performing students who make learning gains from the previous year in **reading and mathematics**. It takes at least 50% in both **reading and mathematics** to make "adequate progress" for this group.

<sup>1</sup> For schools with fewer than 30 students in the lowest 25%, the 30 lowest performing students will be substituted.

## SCHOOL GRADING SCALE

**A**

- 525 points or more
- Meet adequate progress of lowest students in reading and mathematics
- Test at least 95% of eligible students

**B**

- 495-524 points
- Meet adequate progress of lowest students in reading and mathematics within two years
- Test at least 90% of eligible students

**C**

- 435-494 points
- Meet adequate progress of lowest students in reading and mathematics within two years
- Test at least 90% of eligible students

**D**

- 395-434 points
- Test at least 90% of eligible students

**F**

- Fewer than 395 points
- OR
- Less than 90% of eligible students tested

Which students are included in school grade calculations? As in previous years, only standard curriculum students (including Speech impaired, gifted, hospital/home bound, and English Language Learner students (ELL) with more than two years in an English Speakers of other Languages (ESOL) program) enrolled in the same school in both October and February are included in the components for scoring high on the FCAT. All students, including Students with Disabilities (SWD) and ELL students, are included in the learning gains component of the school grade calculation.

What happens if the lowest students in the school do not make "adequate progress" in reading and mathematics? Schools that do not make adequate progress with their lowest students in reading and mathematics, must develop a School Improvement Plan component that addresses this need. If a school, otherwise graded "A", does not demonstrate adequate progress in the current year, the final grade will be reduced by one letter grade. If a school, otherwise graded "B" or "C", does not demonstrate adequate progress in either the current or prior year, the final grade will be reduced by one letter grade.

# Sample School Grade Report for 2007

Sunshine Middle School					
2007	Reading (Grades 6, 7, 8)	Mathematics (Grades 6, 7, 8)	Science (Grade 8)	Writing (Grade 8)	Grade Points
% Meeting High Standards	63%	59%	65%	74%	261
% of Students Making Learning Gains	66%	68%	_____	_____	134
Adequate Progress of Lowest 25% or Lowest 30 Students in the School?	50% (Yes)	50% (Yes)	_____	_____	100
School Grade Points					495
Percent Tested = 93%					
School Grade					B

Percent scoring FCAT level 3 and above

Percent scoring at 3.5 and above

1 point for each % meeting high standards in reading, mathematics, science, and writing

1 point for each % making gains in reading and mathematics

1 point for each % of lowest performing students making gains in reading and mathematics

3 ways to make gains:

- Improve FCAT levels
- Maintain Level 3, 4, or 5
- Improve more than one year within level 1 or 2, but not retained

Percent of eligible students tested

Adequate Progress?

"Yes" indicates at least 50% made learning gains in current or prior year.

"No" indicates less than 50% made learning gains in current or prior year.

Based on 3 Things:

- Total Points
- Adequate Progress
- % of Students Tested



## **Attachment B**

### **Definition of One Year's Growth in the A+ Accountability System**

Florida's A+ school accountability system has three major components:

- Yearly achievement of high standards in reading, mathematics and writing;
- Annual learning gains in reading and mathematics; and
- Annual learning gains in reading and mathematics for the lowest 25% of students in each school.

The definition of learning gains is spelled out in State Board of Education *Rule 6A-1.09981*. There are three ways that schools can be credited for the annual learning gains of their students:

1. when students improve their FCAT achievement level from one year to the next;
2. when students maintain their achievement levels within 3, 4 or 5 from one year to the next; or
3. when students demonstrate more than one year's growth within Levels 1 or 2, as measured by an increase in their FCAT developmental scores from one year to the next.

The first two gain definitions are relatively straightforward because student achievement level information is readily available from the FCAT student report and district test data files provided by the Department. The third definition is more complex since it is based on the amount of gain that represents one year's growth. Thus, a definition of "one year's growth" in terms of FCAT developmental scale score gain is required.

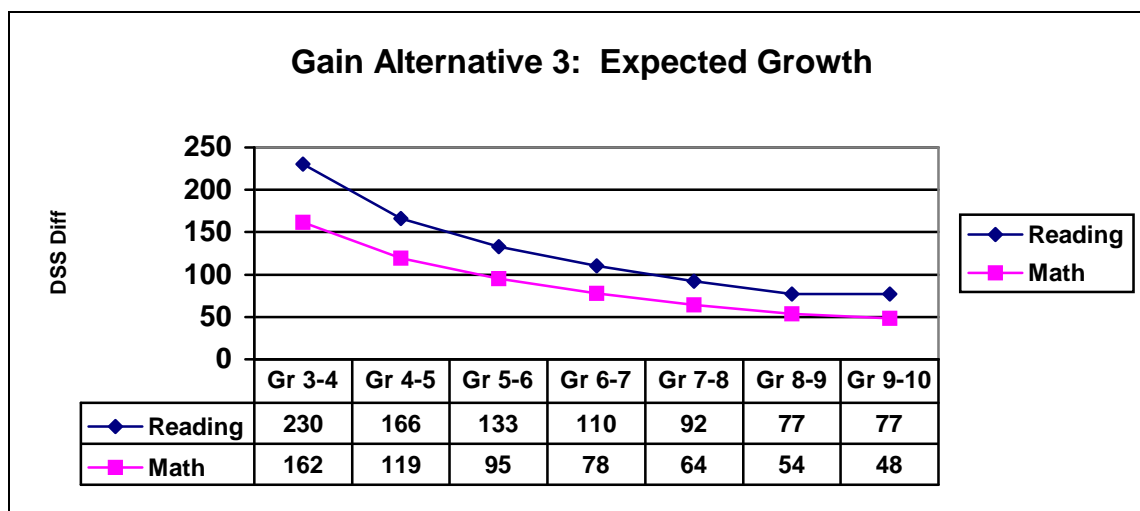
The definition of "one year's growth" applied to the third gain option for calculating school grades is based on the numerical cut-scores for the FCAT achievement levels approved by the State Board of Education. In State Board Rule 6A-1.09422, there are four cut-off scores that separate FCAT scale scores into five achievement levels, with Level 1 being the lowest and Level 5 being the highest. At each of the four cut-off scores between achievement levels, FCAT scale scores (100-500) were converted to FCAT developmental scores that range from 0-3000. This allows all of the cut scores to be placed on the same scale. The increase in FCAT developmental scores necessary to maintain the same relative standing within achievement levels from one grade to the next was calculated for each of the four cut points between the five achievement levels.

The following table provides an example of how the three preceding steps were applied to the reading cut points from grade three to grade four:

<b>Grade 4 Example</b>					
<b>Grade</b>	<b>Measure</b>	<b>Level 1-2 Cut</b>	<b>Level 2-3 Cut</b>	<b>Level 3-4 Cut</b>	<b>Level 4-5 Cut</b>
3	FCAT scale score	258	283	331	393
	Developmental score	1045	1197	1488	1865
4	FCAT scale score	274	298	338	385
	Developmental Score	1314	1455	1689	1964
3 – 4	Difference in Developmental Scores at the cut points	269	258	201	99
Midpoint of differences at the cut points			230		

The last line of the table shows the expected gain from one achievement level to the next is different, depending on the initial achievement level of the student. To produce a single value that represents the entire student population, the median value of the differences is calculated. The median of the four developmental scale score differences necessary for students to maintain the same relative standing within an FCAT achievement level in the example is 230. The median was considered more appropriate than the average or maximum of the four values because the median is less sensitive to very high or low values.

After median gain expectations were determined for each grade progression (3-4, 4-5, 5-6, 6-7, 7-8, 8-9, and 9-10), a best-fit curve (logarithmic trend line) was calculated, beginning at grades 3-4 and ending at grades 9-10. Other curve fits were considered, including regression lines and polynomial transformations; however, the logarithmic trend line was adopted because it best described the theoretical expectation of greater gains in the early grade levels and lesser at the upper grade levels due to student maturation. The expected gain values for reading and mathematics were obtained separately. The following chart provides the values used to define one year's growth.



It is important to note the following points:

- For purposes of school accountability calculations under the third gain alternative, 6A-1.09981 requires that students who remain within FCAT Achievement Levels 1 or 2 must demonstrate more than one year's growth on the FCAT developmental scale, as determined by the Department. Therefore, for students to be credited with learning gains under the third alternative, they must achieve at least one developmental scale score point more than the values listed above.
- The definition of "one year's growth" in terms of the FCAT developmental score applies to all students who are promoted from one grade level to the next. It cannot be ascertained for retained students who take the same level of the test in two consecutive years.

Other methods for defining one year's growth were also considered prior to the adoption of the procedures described herein. These alternative procedures are described briefly for historical purposes, but each of these options was determined to be less desirable than the one adopted. (1) Expected growth amounts could have been calculated using observed differences in students' developmental scale scores for two consecutive years; however, this approach would lock in expected growth values based on the first year of available gain data and might not reflect actual growth patterns in future years. (2) Expected growth could have been defined at some point in the future after tracking actual cohorts of students over multiple years and determining their average yearly gains; however, this would have delayed the use of learning gains in the accountability system for several more years. (3) The definition of "one year's growth" could have been done separately for students within each of the five achievement levels; however, this method would result in different standards for different students. (4) The definition of "one year's growth" could have been based on the values obtained from grades 3-10 without statistical smoothing; however, this would lead to widely fluctuating expectations from grade to grade.

In summary, the definition of “one year’s growth” applied to the calculating of learning gains was based firmly on the numerical cut-scores approved by the State Board of Education for the FCAT achievement levels. The numeric values of the learning gain expectations represent the average progress expected of students from grade to grade.