## Oregon School Report Card

## 2005-2006 TECHNICAL BULLETIN

Rating System and Formulas

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## I. Preface

The Technical Bulletin provides detailed information about how the ratings will be calculated for the 2005-2006 Oregon School Report Cards to be released in October 2006. A companion Policy Manual provides background information about the report cards.

School report cards were first issued in January 2000 with the rating formulas and rules remaining largely unchanged during the first three years. Extensive revisions in the formula were reflected in the report cards released in January 2003. Additional changes in displays were incorporated for January 2004 to bring the report card into compliance with requirements of the No Child Left Behind Act.

The Overall rating combines four components: Student Performance, Student Behavior, Improvement, and School Characteristics. This document describes in detail each of these component ratings.

Examples of schools are provided in this document to help readers understand how ratings are calculated for elementary/middle schools and high schools.

## Oregon Law

Oregon law (ORS 329.105) requires that the Oregon Department of Education issue performance reports for public schools. These performance reports shall include school ratings for Overall School Performance, Student Performance, Student Behavior, and School Characteristics. Schools shall be rated as Exceptional, Strong, Satisfactory, Low, and Unacceptable. In December 1999, the State Board of Education passed administrative rule OAR 581-022-1060 that established these criteria as the basis for the Oregon school report card ratings. Senate Bill 811 passed in July 2001 requires specific data elements to be displayed on school and district report cards. The No Child Left Behind Act of 2001 mandates additional data elements and displays for school and district report cards produced by states.

The State Superintendent and the Oregon Department of Education are charged with establishing the specific means for calculating the ratings and reporting the results. Working with a national consultant and stakeholders throughout the state, the Department has produced the specific formulas, definitions, and procedures for the school report cards. The school and district report cards have continued to display but not rate other information in addition to the requirements.

# Rating System and Formulas 2005-2006 Oregon School Report Card 

## II. Introduction

This document describes the rating system for the 2005-2006 School and District Report Cards to be issued in October 2006. It also provides detailed information about the specific formulas and definitions and examples of how the ratings will be calculated. The Technical Bulletin describes in detail the following four major topics:

- Formula changes for the 2005-2006 Report Card
- How the Overall rating will be calculated
- How the component ratings will be calculated
- Definitions of the data elements

A companion Policy Manual describes the Report Card elements, displays, and other background information.

## Formula Changes in the Rating System for the 2005-2006 Report Cards

The following changes will be incorporated into the formulas and rules:

- To align with inclusion rules of assessment results, the attendance of students identified in the Spring Membership Collection as enrolled in district special education programs on the first school day in May will be included only in the calculation of district attendance rates.
- Results from 2005-2006 reading and math assessments at grades 4, 6, and 7 will be included in the Statewide Assessments table in the school and district reports cards and will be included in the calculation of testing participation rates for the report card.
- ODE has requested the following amendments to the State's Accountability Workbook:
- Results from 05-06 reading and math assessments at grades 4, 6, and 7 will not be included in the calculation of student performance in 05-06 AYP reports or report cards rating formulas, but will be included in 06-07 reports and ratings.
- Students will be omitted from the participation rate calculation when such students cannot take the State assessment during the entire testing window, including the make-up dates, because of a significant medical emergency.

| Rating | Criteria |
| :---: | :--- |
| Overall | Student Performance, Student Behavior, Improvement, School Characteristics |
| Student | Elementary/Middle School: Student performance in Grades 3, 5, 8 on Oregon Statewide <br> Assessments in Reading/Literature and Math Knowledge and Skills. <br> High School: Student performance in Grade 10 on Oregon Statewide Assessments in <br> Reading/Literature, Math Knowledge and Skills, and Writing. |
| Performance | Elementary/Middle School: Attendance rate. <br> Student <br> Behavior School: Attendance and Dropout rates. |
| Improvement | Improvement in Reading and Math Knowledge and Skills assessment scores combined with <br> improvement in attendance and dropout rates. |
| School | Percentage of eligible students at grades 3-8 and 10 participating in 2005-2006 Oregon <br> Statewide Assessments in English/Language Arts and Mathematics. |
| Characteristics |  |

## III. Calculating the School Characteristics Rating

## Formula Description

The School Characteristics rating will be based on one indicator: the percentage of eligible students that participate in Oregon Statewide Assessments. Each school will receive a School Characteristics rating that reflects its participation rate as shown in the table below. A school that receives an Unacceptable or Low rating in School Characteristics will receive no higher than an Overall rating of Unacceptable or Low, respectively.

| School Characteristics Rating |  |
| :--- | :---: |
| Rating |  |
| Participation Rate |  |
| Exceptional | $94.5 \%$ and higher |
| Low | $89.5 \%-94.4 \%$ |
| Unacceptable | Less than $89.5 \%$ |

## Discussion: The Importance of Participation Rate

It is important that schools include all students in the statewide assessment system. As the number of students that participate appropriately increases, the accuracy of the depiction of the school performance increases. If a school were to select only the top $40 \%$ of its students to assess, the scores would be higher than if all students were assessed. Valid comparisons of the school to itself over time, or of one school to another, assume that a representative group of students at each school has been assessed. The specifics of how students were included are shown below for both the 2004-2005 and 2005-2006 Report Cards.

| Testing Conditions | 2004-2005 <br> Report Card <br> Issued October 2005 |  |
| :--- | :---: | :---: |
|  | Included | 2005-2006 <br> Report Card <br> To be issued October 2006 |
| Standard assessments (with or <br> without accommodations) | Included | Included |
| Targeted up | Included | Included |
| Targeted down | Included | Included |
| Extended assessments | Included | Included |
| Juried assessments | Included | Included |
| Modified assessments | Not included | Included |
| Parent Non-consent | Included as non-participant | Included as non-participant |
| Student Non-consent/No attempt | Included | Included |
| Exempted First Year ELL | Included | Included |
| Non-completers | Included as non-participant | Included as non-participant |
| Absent | Included as non-participant | Included as non-participant |
| Students enrolled on the first school <br> day in May that were enrolled during a <br> test window and not tested |  |  |

# Definition of Participation Rate 

## Definition of Participation Rate for Report Card

The participation rate reflects the proportion of students eligible to participate in the reading, writing, and mathematics Oregon Statewide Assessments to those who actually received scores.
For the purposes of the school report card system, the participation rate is defined as follows:

Number of Participating tests in reading, mathematics, and writing DIVIDED BY
Expected Number of Participating tests in reading, mathematics, and writing —Number tests from students that were ineligible for testing
This definition reflects the percentage of students who should have participated in assessments but did not participate. Schools receive a Low School Characteristics rating if more than $5.5 \%$ of expected tests from students enrolled on the first school day in May are non-participants. Schools receive an Unacceptable School Characteristics rating if more than 10.5\% of expected tests from students enrolled on the first school day in May are non-participants. See below for details on non-participating tests and expected number of tests.

## Summary Discussion

The participation rate for the 2005-2006 report card includes all students enrolled in a school or district on the first school day in May except those students who were exempted due to parent non-consent for religious or disability-related reasons. Students who were exempted due to parent non-consent for religious or disability-related reasons are considered ineligible for testing and are excluded from the calculation of the report card participation rate. For 2005-2006 the expected tests are students that were enrolled during a test window for the following tests:

- Reading/Literature grades 3-8 and 10
- Mathematics Knowledge and Skills grades 3-8 and 10
- Writing grades 4, 7, and 10

Note that registered home schooled students, private school students, tuitioned students and students attending public or private alternative programs that are not claimed by any district for ADM or did not receive instruction from the district in the state content standards during the 20052006 school year are excluded from district and school report card calculations when so identified by the district.

Non-participants are students enrolled on the first school day in May that were enrolled during a test window and not tested. This includes answer sheets coded as "absent", students that refuse to participate, parents that retuse to have their students tested tor reasons other than religious or disability-related reasons.

Students with "special codes" in Writing (e.g. "too long," "too short," "off topic") were included for both participation and school performance calculations.

## Student Inclusion Rules

| Type (Assessment Code) | Report Card <br> 2004-2005 Policy | Report Card <br> 2005-2006 Policy |
| :--- | :---: | :---: |
| Absent (1) | 2 | 2 |
| Non-attempt (no attempt-includes <br> student non-consent) | 2 | 2 |
| Modified (student with disability) (3) | 3 | 3 |
| Exempt* (Limited English Proficient) | 3 | 3 |
| Modified (Limited English Proficient) <br> (5) | 3 | 3 |
| Refusal (parent) (7) | 1 | 1 |
| Home schooled (home schooled/ <br> foreign exchange) (6) | 1 | 1 |
| Not enrolled during test window^ (8) | 1 | 1 |

Code key:
1- Not included in Participation (denominator) nor in calculation of Student Performance
2- Included as non-participant; not included in calculation of Student Performance
3- Included as participant; not included in calculation of Student Performance

Note: In calculating Student Performance, the average of two years is always used.
In calculating Participation, the single most recent year is used.
*Limited English Proficient (LEP) students that enroll in a U.S. school for the first time after August 15 of the current school year are not required to take the state assessments in reading and writing. However, these "First year" LEP students are counted as participants in reading or writing tests only if reported as taking a test of English Language Proficiency during the school year. First year LEP students are required to take state assessments in mathematics and science.
${ }^{\wedge} O D E$ has requested the following amendment to the State's Accountability Workbook:

- Students will be omitted from the participation rate calculation when such students cannot take the State assessment during the entire testing window, including the make-up dates, because of a significant medical emergency.


## IV. Calculating the Student Performance Rating

## Formula Description

The Student Performance Rating will be based on student performance on Oregon Statewide Assessments during the two most recent school years, 2004-2005 and 2005-2006.

## The Calculation of Student Performance Ratings

In order to maintain a rating system that is consistent for as many years as possible, the decision was made by the Oregon Department of Education that the

- Elementary and Middle School formula will include only the results of Reading/Literature and Math Knowledge and Skills assessments from grades 3, 5, 8, and 10 in the 2005-2006 report card ratings*.
- High School formula includes Reading/Literature and Math Knowledge and Skills results from students enrolled at grades $3,5,8$, and 10 , and the Writing results for students enrolled at grade 10 in the 2005-2006 report card ratings*.
*ODE has requested the following amendment to the State's Accountability Workbook:
- Results from 05-06 reading and math assessments at grades 4, 6, and 7 will not be included in the calculation of student performance in 05-06 AYP reports or report card rating formulas, but will be included in 06-07 reports and ratings.


## Determining Which Tests to Include in Calculating Student Performance

The rules for including tests in the calculation of student performance have changed over time.

- Prior to the 2004-2005 school year, the highest score a student earned in a school or district on a standard administration of a test at or above the student's enrolled grade was included in calculating the student performance index of a school or district.
- For the 2004-2005 school year and beyond, the highest score earned during the school year that a student taking a standard administration of a test at or above the student's enrolled grade is included in the school and district where the student was enrolled for a full academic year in the school of enrollment on the first school day in May.
- The scores of students enrolled in grade 10 who took and passed the test the previous school year or who targeted up and passed the test as an $8^{\text {th }}$ grade student and did not test again when enrolled in grade 10 are included using the inclusion rules for the appropriate school year.

Note that registered home schooled students, private school students, tuitioned students and students attending public or private alternative programs that are not claimed by any district for ADM or did not receive instruction from the district in the state content standards during the 2005-2006 school year are excluded from district and school report card calculations when so identified by the district.

## Weights

Elementary and Middle School: In calculations of the Student Performance ratings, results for Reading and Math Knowledge and Skills assessments will each contribute $50 \%$ of the total.

High School: In calculations of the Student Performance ratings, results for Reading and Math Knowledge and Skills will each contribute $39 \%$ and Writing will contribute $22 \%$ of the total.

## Student Performance Rating Formulas

Elementary and Middle Schools: The Student Performance rating will be calculated as an average of scores on Reading and Math Knowledge and Skills statewide assessments for the two most recent years.

Student Performance Index Score Grades 3,5,8=
$[((.50$ * Reading 2004-2005) + (.50 * Math Knowledge/Skills 2004-2005)) +
$((.50$ * Reading 2005-2006) $+(.50$ * Math Knowledge/Skills 2005-2006) $)] / 2$

High School: The Student Performance rating will be calculated as a weighted average of scores on Reading, Math Knowledge and Skills, Writing, and Math Problem Solving statewide assessments for the two most recent years.

Student Performance Index Score Grade $10=$
$[((.39$ * Reading 2004-2005) + (.39 * Math Knowledge/Skills 2004-2005) + (.22 * Writing 2004-2005) ) + $((.39$ * Reading 2005-2006) $+(.39$ * Math Knowledge/ Skills 2005-2006) $+(.22$ * Writing 2005-2006) $)] / 2$

## Calculating Index Points From Performance Levels

Based on performance levels, an Assessment Index Score will be calculated for each student assessment used in the rating, with the same general method used for all assessments. The scale score ranges for each performance level are shown below by test and by grade level. Writing at grades 4 and 7 and science are displayed and included in report card detail sheets, but are not included in student performance ratings for the 2005-2006 report card.

| Oregon Assessments Performance Levels and Cut Scores by Content Area and Grade |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Content Area and Grade | Scale Score Ranges for Each Performance Level |  |  |  |  |
|  | Exceed the Standard | Meet the Standard | Nearly Meet the Standard | Low | Very Low |
| Reading/Literature |  |  |  |  |  |
| Grade 3 | 215 \& above | 201-214 | 196-200 | 190-195 | below 190 |
| Grade 4 | 223 \& above | 208-222 | 203-207 | 196-202 | below 196 |
| Grade 5 | 231 \& above | 215-230 | 209-214 | 201-208 | below 201 |
| Grade 6 | 233 \& above | 219-232 | 214-218 | 203-213 | below 203 |
| Grade 7 | 236 \& above | 226-235 | 218-225 | 206-217 | below 206 |
| Grade 8 | 239 \& above | 231-238 | 223-230 | 208-222 | below 208 |
| Grade 10 | 249 \& above | 239-248 | 230-238 | 214-229 | below 214 |
| Math Knowledge and Skills |  |  |  |  |  |
| Grade 3 | 215 \& above | 202-214 | 196-201 | 186-195 | below 186 |
| Grade 4 | 223 \& above | 208-222 | 203-207 | 194-202 | below 194 |
| Grade 5 | 231 \& above | 215-230 | 210-214 | 202-209 | below 202 |
| Grade 6 | 233 \& above | 219-232 | 215-218 | 207-214 | below 207 |
| Grade 7 | 236 \& above | 226-235 | 220-225 | 211-219 | below 211 |
| Grade 8 | 239 \& above | 231-238 | 225-230 | 216-224 | below 216 |
| Grade 10 | 249 \& above | 239-248 | 229-238 | 219-228 | below 219 |
| Writing |  |  |  |  |  |
| Grade 4 | 40-48 | 32-39 | 28-31 | 16-27 | 0-15 |
| Grade 7, 10 | 50-60 | 40-49 | 35-39 | 20-34 | 0-19 |
| Science |  |  |  |  |  |
| Grade 5 | 239 \& above | 223-238 | 210-222 | 202-209 | below 202 |
| Grade 8 | 247 \& above | 233-246 | 227-232 | 216-226 | below 216 |
| Grade 10 | 252 \& above | 239-251 | 233-238 | 222-232 | below 222 |

## Index Points

Index points will be assigned for each student score with more points being assigned to higher student performance levels. The index points for each performance level are shown in the table below.

| Performance Level | Index Points |
| :--- | :---: |
| Exceed the Standard | 133 |
| Meet the Standard | 100 |
| Nearly Meet the Standard | 67 |
| Low | 33 |
| Very Low | 0 |

## Assessment Index Score Formula

The formula below yields one Assessment Index Score for a school. The index score is rounded to the nearest tenth of a point.

## Assessment Index Score=

$$
[(0 \text { * Number of Very Low Scores })+(33 \text { * Number of Low Scores })+(67 \text { * Number of Nearly Meets Scores })+
$$ $(100$ * Number of Meets Scores) $+(133$ * Number of Exceeds Scores)] / Total Number of Student Scores

## Student Performance Index Scores

The Student Performance Index Scores will be calculated and compared to the index score ranges below to determine the Student Performance rating.

Elementary and Middle School

| Student Performance Index Score Ranges |  |
| :--- | :---: |
| Rating | Index Score Range |
| Exceptional | 115.0 or higher |
| Strong | $100.0-114.9$ |
| Satisfactory | $70.0-99.9$ |
| Low | $60.0-69.9$ |
| Unacceptable | Less than 60.0 |

High School

| Student Performance Index Score Ranges |  |
| :--- | :---: |
| Rating | Index Score Range |
| Exceptional | 100.0 or higher |
| Strong | $90.0-99.9$ |
| Satisfactory | $70.0-89.9$ |
| Low | $60.0-69.9$ |
| Unacceptable | Less than 60.0 |

## Method for Calculation

An Assessment Index Score for a given year and subject is calculated by counting the number of students that scored at the Exceed, the Meet, the Nearly Meet, the Low, and the Very Low performance levels. Then the points will be applied to the number of students at each performance level. Please note that this method can be used to calculate an index score for each assessment at a particular grade level, or for a particular assessment across multiple grade levels within a school.

The Assessment Index Scores for a school include all the students assessed, regardless of the benchmark grade level. For example, a school with Grades 3 and 5 will have the scores combined into a single Reading Assessment Index Score for both grades combined.

## Discussion

The Assessment Index Score represents the average performance of students in the school on that particular assessment. A score of 100 indicates that, on average, the students performed at the level of Meet the Standard. A score of 33 indicates that, on average, the students performed at the Low level. A school could have a maximum Assessment Index Score of 133 if all the students were at the level of Exceed the Standard. The minimum score would be 0 if all the students were at the level of Very Low.

## Display

The percentage of students meeting or exceeding the standards will be displayed for Reading, Math, and Science Knowledge and Skills tests. The percentage of students exceeding, meeting, and conditionally meeting the state standards will be displayed for Writing tests.

## V. Calculating the Student Behavior Rating

## Formula Description

Elementary/Middle Schools: The Student Behavior rating will be based on attendance rates during the two most recent school years, 2004-2005 and 2005-2006.
High Schools/Schools With Grade 12: The Student Behavior rating will be based on attendance and dropout rates during the two most recent school years available.

## Calculation of Student Behavior Ratings

- The Student Behavior rating will be based on attendance and dropout rates for the two most recent years.
- Improvement in Student Behavior will not be included in this category, but improvement in attendance and dropout rates will be part of a separate Improvement rating.
- The index score for attendance will be the percentage of students attending in grades 1-12 and will not be based on a formula index.
- Index score ranges will be the same for elementary, middle, and high schools.


## Student Behavior Rating Formulas

Elementary and Middle Schools: The Index Score will be based on an average of the attendance rates for the 2004-2005 and 2005-2006 schools years.

Student Behavior Index Score EMS $=$
[(Attendance Rate $2004-2005$ + Attendance Rate $2005-2006)] / 2$

High Schools/Schools with Grade 12: The Index Score will be based on an average of the attendance rates for the school years 2004-2005 and 2005-2006 and dropout rates for 2003-2004 and 2004-2005. High schools will not receive separate ratings for attendance and dropout. The two measures will be combined into the Student Behavior rating.

Student Behavior Index Score ${ }_{\text {HS }}=$
([Attendance Index Score + Dropout Index Score]) $/ 2$

- Attendance Index Score нS $=\left[\left(\right.\right.$ Attendance Rate ${ }_{2004-2005}+$ Attendance Rate $\left.{ }_{2005-2006)}\right] / 2$
- Dropout Index Score нs $=\left[\left(100\right.\right.$ - Dropout Rate ${ }_{2003-2004)}$ + (100 - Dropout Rate $\left.\left.2004-2005\right)\right] / 2$


## Student Behavior Index Score Ranges

The ratings and corresponding index score ranges are shown below for all schools. The Student Behavior Index Score will be calculated and compared to the index score ranges in the table below to determine the Student Behavior rating. The same index score ranges apply to all schools.

| Student Behavior Ratings |  |
| :--- | :---: |
| Rating |  |
| Exceptional | 96.0 or higher |
| Strong | $94.0-95.9$ |
| Satisfactory | $92.0-93.9$ |
| Low | $89.0-91.9$ |
| Unacceptable | Iess than 89.0 |

## Definition of Attendance Rate

The attendance rate is the average percentage of enrolled students attending school each day during the school year. An attendance rate of $100 \%$ means that every enrolled student attended school every day. Because there is a normal rate of illness and other incidents, it is reasonable for schools to have attendance rates less than 100\%.

Attendance rates include absences that are excused and unexcused. When a student is not at school (unless withdrawn), the student is counted as absent. Out-of-school suspensions are included as absences. Attendance is defined using the standard definitions published by the Oregon Department of Education.

## Calculation of the Attendance Rate

Attendance is calculated as the ratio between Total Days Present and Total Daily Students Could Have Attended.

- Total Days Present is calculated by summing the number of students present in the school each day, across all the days of the school year.
- Total Days Absent is calculated by summing the number of students absent in the school each day, across all the days of the school year.
- The Attendance Rate is calculated by dividing the Total Days Present by the sum of the Total Days Present and the Total Days Absent and multiplying by 100. Attendance rates are rounded to the nearest tenth of one percent for the school report card.

Total Days Attendance
Attendance Rate $=$

## Total Days Attendance

(Total Days Present + Total Days Absent )

## Definition of Dropout Rate

A dropout is defined by Oregon Revised Statute ORS 339.505. This definition of dropout is consistent with the definition used by the National Center for Education Statistics and is calculated following the regular definitions published by the Oregon Department of Education.

## Calculation of the Dropout Index

The Dropout Index will be calculated as (100 - Dropout Rate).

The dropout rate is calculated annually. Final dropout figures are not available until after December of each year because schools must confirm that a student has not re-enrolled in school.

A dropout is a student who withdrew from school and did not graduate or transfer to another school that leads to graduation. Dropouts do not include students who:

- are deceased,
- are being home schooled,
- are enrolled in an alternative school or hospital education program,
- are enrolled in a juvenile detention facility,
- are enrolled in a foreign exchange program,
- are temporarily absent because of suspension, a family emergency, or severe health problems that prevent attendance at school,
- received a GED certificate,
- received an adult high school diploma from a community college.

For more information which students are considered dropouts and to view annual statewide reports on dropouts, see http://www.ode.state.or.us/data/schoolanddistrict/students/dropout.aspx.

## VI. Calculating the Improvement Rating

## Formula Description

The Improvement rating will be based on improvement over four years in performance on statewide assessments, attendance, and dropout rates.

## Improvement Ratings and Index Score Ranges

The Improvement Index Score will be calculated and compared to the index score ranges below to determine the Improvement rating. The same index score ranges apply to all schools.

| Improvement Ratings |  |
| :--- | :---: |
| Rating | Index Score Range |
| Improved | 5.0 and higher |
| Stayed About the Same | -4.9 to +4.9 |
| Declined | -5.0 and less |

## Improvement Rating Formulas

Part 1: Calculating Improvement in Student Performance on Reading and Math Knowledge and Skills assessments.

Improvement in Student Performance will be based on an average of the performance on Reading and Math Knowledge and Skills statewide assessments, as shown in the formula below. Please note that the Student Performance Improvement rating formula will be the same for elementary, middle, and high schools.

Student Performance Improvement ${ }_{2002-2003 \text { to 2005-2006 }}=$
[(Reading Improvement ${ }_{2002-2003}$ to 2005-2006) $+\left(\right.$ Math Improvement $_{2002-2003}$ to 2005-2006)] / 2

Part 2: Calculating Improvement in Student Behavior on attendance and dropout rates.

Elementary/Middle School: Improvement in Student Behavior will be the change in attendance rates.

Student Behavior Improvement ${ }_{\text {E/MS }}=$
(Attendance Improvement ${ }_{2002-2003}$ to 2005-2006)

High School: If the school includes a $12^{\text {th }}$ grade, Improvement in Student Behavior will be an average of the change in attendance and the change in dropout.

Student Behavior Improvement ${ }_{\text {HS }}=$
[(Attendance Improvement ${ }_{2002-2003}$ to 2005-2006) $+\left(\right.$ Dropout Improvement $\left._{\text {2001-2002 to 2004-2005 }}\right)$ ] 2

Part 3: Calculating the Improvement change over four years.

## Improvement Index=

[(. 8 * Student Performance Improvement) + (. 2 * Student Behavior Improvement)]

Please note that in cases where only three years of data are available, the two most recent years of data are compared against the single most prior year for the purposes of calculating Improvement. If three years of dropout data are not available, the elementary school improvement formula will be applied.

## VII. Calculating The Overall Rating

## Formula Description

The Overall rating will be based on

- Student Performance: Oregon Statewide Assessment results during the two most recent school years, 2004-2005 and 2005-2006.
- Student Behavior: Attendance and dropout rates during the two most recent school years.
- Improvement: Change in performance on statewide assessments, attendance, and dropout rates during the four most recent school years.
- School Characteristics: Participation in Reading, Writing, and Mathematics Oregon Statewide Assessments during the most recent school year, 2005-2006.

Two methods for determining the Overall rating are described below. The two methods yield the same results.

## Method 1: Calculating the Overall Rating

Step 1: If the rating of School Characteristics is Exceptional, then the Overall rating can be determined using the rating scores in the charts below. To calculate the Overall rating, find the numerical rating scores associated with the ratings for each of the component ratings:

## Student Performance, Student Behavior, and Improvement.

Note that if a school has an Unacceptable School Characteristics rating, then it will receive an Overall rating of Unacceptable. If a school has a Low School Characteristics rating, then it will receive a maximum Overall rating of Low.

| Student Performance |  |
| :---: | :--- |
| Rating Score | Rating |
| 4 | Exceptional |
| 3 | Strong |
| 2 | Satisfactory |
| 1 | Low |
| 0 | Unacceptable |


| Student Behavior |  |
| :---: | :--- |
| Rating Score | Rating |
| 4 | Exceptional |
| 3 | Strong |
| 2 | Satisfactory |
| 1 | Low |
| 0 | Unacceptable |


| Improvement |  |
| :---: | :--- |
| Rating Score | Rating |
| 1 | Improved |
| 0 | Stayed About the Same |
| -.25 | Declined |

Step 2: Apply the following formula

## Overall Rating Index Score =

(.8* Student Performance Rating Score) + (.2 * Student Behavior Rating Score) + Improvement Rating Score

Step 3: Find the rating that corresponds to the Overall Rating Index Score. Please note that for the Overall rating the same index score ranges apply to all schools.

| Overall Rating |  |
| :--- | :---: |
| Rating |  |
| Exceptional | Index Score Range |
| Strong | 4.0 or above |
| Satisfactory | $1.0-3.9$ |
| Low | $1.0-1.4$ |
| Unacceptable | less than 1.0 |

## Method 2: Calculating the Overall Rating

If the rating of School Characteristics is Exceptional, the Overall rating may be determined by using the chart below. Find the row that corresponds with each component rating.

| Overall <br> Rating | Student <br> Performance | Student <br> Behavior | Improvement |
| :--- | :--- | :--- | :--- |
| Exceptional | Exceptional | Exceptional | Improved |
| Exceptional | Exceptional | Strong | Improved |
| Exceptional | Strong | Exceptional | Improved |
| Exceptional | Exceptional | Satisfactory | Improved |
| Exceptional | Exceptional | Exceptional | Stayed about the same |
| Exceptional | Strong | Strong | Improved |
| Exceptional | Exceptional | Low | Improved |
| Exceptional | Exceptional | Unacceptable | Improved |
| Exceptional* | Exceptional | Exceptional | Declined |
| Strong | Satisfactory | Exceptional | Improved |
| Exceptional* | Exceptional | Strong | Stayed about the same |
| Strong | Strong | Satisfactory | Improved |
| Strong | Strong | Exceptional | Stayed about the same |
| Strong | Satisfactory | Strong | Improved |
| Strong | Exceptional | Strong | Declined |
| Exceptional* | Exceptional | Satisfactory | Stayed about the same |


| Overall <br> Rating | Student <br> Performance | Student <br> Behavior | Improvement |
| :--- | :--- | :--- | :--- |
| Strong | Strong | Low | Improved |
| Strong | Exceptional | Satisfactory | Declined |
| Strong | Strong | Strong | Stayed about the same |
| Strong | Satisfactory | Satisfactory | Improved |
| Strong | Exceptional | Low | Stayed about the same |
| Strong | Exceptional | Low | Declined |
| Strong | Strong | Unacceptable | Improved |
| Strong | Exceptional | Unacceptable | Stayed about the same |
| Strong | Strong | Exceptional | Declined |
| Strong | Exceptional | Unacceptable | Declined |
| Satisfactory | Low | Exceptional | Improved |
| Satisfactory | Satisfactory | Exceptional | Stayed about the same |
| Satisfactory | Low | Strong | Improved |
| Satisfactory | Strong | Strong | Declined |
| Satisfactory | Strong | Satisfactory | Stayed about the same |
| Satisfactory | Satisfactory | Low | Improved |
| Satisfactory | Satisfactory | Exceptional | Declined |
| Satisfactory | Satisfactory | Strong | Stayed about the same |
| Satisfactory | Low | Satisfactory | Improved |
| Satisfactory | Strong | Satisfactory | Declined |
| Satisfactory | Strong | Low | Stayed about the same |
| Satisfactory | Satisfactory | Strong | Declined |
| Satisfactory | Low | Exceptional | Stayed about the same |
| Satisfactory | Strong | Low | Declined |
| Satisfactory | Satisfactory | Satisfactory | Stayed about the same |
| Satisfactory | Low | Low | Improved |
| Satisfactory | Satisfactory | Unacceptable | Improved |
| Satisfactory | Unacceptable | Exceptional | Improved |
| Satisfactory | Satisfactory | Satisfactory | Declined |
| Satisfactory | Satisfactory | Low | Stayed about the same |
| Satisfactory | Strong | Unacceptable | Stayed about the same |
| Satisfactory | Unacceptable | Strong | Improved |
| Satisfactory | Satisfactory | Low | Declined |
|  |  |  |  |


| Overall <br> Rating | Student <br> Performance | Student <br> Behavior | Improvement |
| :--- | :--- | :--- | :--- |
| Satisfactory | Low | Unacceptable | Improved |
| Satisfactory | Strong | Unacceptable | Declined |
| Satisfactory | Satisfactory | Unacceptable | Stayed about the same |
| Low | Unacceptable | Satisfactory | Improved |
| Low | Low | Exceptional | Declined |
| Low | Low | Strong | Declined |
| Low | Low | Satisfactory | Stayed about the same |
| Low | Unacceptable | Low | Stayed about the same |
| Low | Unacceptable | Unacceptable | Improved |
| Low | Low | Strong | Stayed about the same |
| Low | Satisfactory | Declined |  |
| Low | Exceptional | Stayed about the same |  |
| Low | Low | Declined |  |
| Unacceptable | Unacceptable | Exceptional | Declined |
| Unacceptable | Low | Strong | Stayed about the same |
| Unacceptable | Unacceptable | Unacceptable | Stayed about the same |
| Unacceptable | Unacceptable | Strong | Declined |
| Unacceptable | Low | Satisfactory | Stayed about the same |
| Unacceptable | Unacceptable | Unacceptable | Declined |
| Unacceptable | Unacceptable | Satisfactory | Declined |
| Unacceptable | Low | Low | Stayed about the same |
| Unacceptable | Unacceptable | Low | Declined |
| Unacceptable | Unacceptable | Unacceptable | Stayed about the same |
| Unacceptable | Unacceptable | Unacceptable | Declined |
| Unacceptable | Unacceptable |  |  |
| Unacceptable | Unacceptable |  | \begin{tabular}{l}
\end{tabular} |

## Exceptions

The formula method and the matrix method can be used in most circumstances. However, there are four situations when a formula override will be applied.

1) If the rating of School Characteristics is Unacceptable, the Overall rating is set to Unacceptable.
2) If the rating of School Characteristics is Low, the Overall rating is set to a maximum of Low.
3) If the ratings for Student Performance and Student Behavior are Exceptional, but there is a decline in the Improvement factor, the Overall rating is set to Exceptional. This adjustment is noted with an asterisk in the Rating Matrix shown above.
4) Elementary/Middle Schools: If the index score for Student Performance is 115.0 or higher, then the rating for Student Performance is set to Exceptional* and the school will receive 4.5 points toward the Overall rating score. When combined with a Student Behavior rating of Strong and an Improvement rating of Stayed About the Same, the Overall rating will be set to Exceptiona/*. This adjustment is noted with an asterisk in the Rating Matrix shown above.

## Special Circumstances

An asterisk or a superscripted number by an Overall rating denotes a special circumstance for which additional information in a footnote is needed to allow the reader to interpret the rating appropriately.

If requested by the district, schools that have a significant change in population due to changes in boundaries or grade level configurations are noted with an asterisk. In cases where there has been a population change of at least $40 \%$, the institution is considered a new school and the Overall, the Student Performance, and the Student Behavior ratings are not computed until sufficient historical data is again accumulated.

## VIII. An Example of Calculating Ratings: Elementary/Middle School

## Introduction

The report card rating system is based on the following components: student performance on Oregon Statewide Assessments, attendance and dropout rates, and participation rates on statewide assessments. The rating system provides a method for combining index scores for the component ratings into a single number which is used to calculate the Overall rating.

Although there are many numbers, the calculations themselves are quite simple. You will need the score reports returned to the school by the Assessment Office of the Department of Education and the attendance and dropout data reported by the school to the Department.

## Background: Example for Elementary School

For the purpose of this example, we will assume that students in Grades 3 and 5 were included in assessments for Reading and Math Knowledge and Skills. We will also assume that the school has attendance data, and that a dropout rating does not apply to this school.

To calculate the Overall rating, we will need to calculate each of the four components. The example will show how this is done for each element:

- Student Performance Index Score
- Student Behavior Index Score
- Improvement Index Score
- School Characteristics Index Score


## Calculating the Student Performance Index Score

## Elementary/Middle School

Student assessment results are used to calculate the Student Performance Index Score. The steps are listed below.

Step 1. Calculate a Reading Assessment Index Score using 2004-2005 data.
Step 2. Repeat the procedures for 2005-2006 Reading.
Step 3. Calculate a Math Assessment Index Score using 2004-2005 data.
Step 4. Repeat the procedures for 2005-2006 Math.
Step 5. Using the Reading Assessment Index Scores and the Math Assessment Index Scores, calculate the Total Assessment Index Score for 2004-2005 and 2005-2006.
Step 6. Calculate the Student Performance Index Score by averaging the two Total Assessment Index Scores.
Step 7. Compare the Student Performance Index Score to the table for a Student Performance Rating.

## Example: Elementary/Middle School

## Step 1. Calculating a Reading Assessment Index Score ${ }_{2004-2005}$ for Grades 3 and 5

| Performance Level | Number of Tests | Points | Total |
| :---: | :---: | :---: | :---: |
| Exceed | 11 | 133 | 1463 |
| Meet | 15 | 100 | 1500 |
| Nearly Meet | 13 | 67 | 871 |
| Low | 7 | 33 | 231 |
| Very Low | 4 | 0 | 0 |
| Total | 50 |  | 4065 |
|  |  | Score | 81.3 |

- Count the number of tests at each Performance Level. In the example, there were eleven students who scored Exceed the Standard on the Reading test. Note that it is possible to count all students in the school across all grade levels tested; this is mathematically equivalent to counting each grade level, and then adding the sums.
- Multiply the number of tests at each Performance Level by the points assigned for that Performance Level. In the example, the school receives 133 points for each student at the Exceed Performance Level. Since there were eleven students who scored Exceed, the school calculates $11^{*} 133=1463$. This is done for each Performance Level.
- Add the total points for all the Performance Levels. In the example, the school had $(1463+1500+871+231+0)=4065$ total points.
- Add the total number of tests for all the Performance Levels. In the example the school had $(11+15+13+7+4)=50$ total students for the reading test.
- Divide the total points by the total number of tests for the Assessment Index Score. In the example, the school had 4065 total points, divided by 50 total tests $=81.3$ (rounded to the nearest tenth of a point).
- After calculating a score for both the Reading and Math Knowledge and Skills assessments during the 2004-2005 school year, repeat the procedures for Reading and Math during the school year 2005-2006. Then calculate a Total Assessment Index Score by multiplying the score for each assessment by its assigned weight and adding the weighted scores.


## Step 2. Calculating a Reading Assessment Index Score ${ }_{2005-2006}$

Repeat the procedures for Reading during the school year 2005-2006.

## Step 3. Calculating a Math Assessment Index Score ${ }_{2004-2005}$

Repeat the procedures for Math during the school year 2004-2005.
Step 4. Calculating a Math Assessment Index Score ${ }_{2005-2006}$
Repeat the procedures for Math during the school year 2005-2006.

Step 5. Calculating a Total Assessment Index Score

| Total Assessment Index Score ${ }_{2004-2005}$ |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Test | Score | Weight | Total |  |  |
| Reading Knowledge and Skills | 81.3 | $50 \%$ | 40.7 |  |  |
| Math Knowledge and Skills | 76.6 | $50 \%$ | 38.3 |  |  |
| Total |  | $100 \%$ | 79.0 |  |  |
| Total Assessment Index Score $_{2004-2005}$ |  |  |  |  | $\mathbf{7 9 . 0}$ |

After calculating the Total Assessment Index Score for the school year 2004-2005, repeat the procedure using the data for the school year 2005-2006.

| Total Assessment Index Score ${ }_{\text {2005-2006 }}$ |  |  |  |
| :--- | :---: | :---: | :---: |
| Test | Score | Weight | Total |
| Reading Knowledge and Skills | 83.3 | $50 \%$ | 41.7 |
| Math Knowledge and Skills | 82.6 | $50 \%$ | 41.3 |
| Total |  | $100 \%$ | 83.0 |
| Total Assessment Index Score |  |  |  |
| 2005-2006 | $\mathbf{8 3 . 0}$ |  |  |

Step 6. Calculating the Student Performance Index Score
Average the Total Assessment Index Score $_{2004-2005}$ and the Total Assessment Index Score ${ }_{2005-2006}$.
Student Performance Index Score ${ }_{2000-2005-2005-2006}=$
$\quad\left[\right.$ Total Assessment Index Score $2004-2005+$ Total Assessment Index Score ${ }_{2005-2006]} / 2$
Student Performance Index Score $=[79.0+83.0] / 2$
Student Performance Index Score $_{2004-2005-2005-2006}=81.0$
Step 7. Comparing the Student Performance Index Score
Compare the Student Performance Index Score of 81.0 to the table below. For the example, the school earned a Satisfactory Student Performance rating.

Elementary and Middle School

| Student Performance Index Score Ranges |  |
| :--- | :---: |
| Rating |  |
| Index Score Range |  |
| Exceptional | 115.0 or higher |
| Strong | $100.0-114.9$ |
| Satisfactory | $70.0-99.9$ |
| Low | $60.0-69.9$ |
| Unacceptable | Less than 60.0 |

## Calculating the Student Behavior Index Score: Elementary/Middle School

## Step 1. Calculating the Attendance Index Score for Grades 3 and 5

The Attendance rate is calculated by dividing the Number of Days Attendance (days present) by the Total Daily Membership (days present + days absent). The two numbers are reported by the school and district to the Department of Education. First calculate for 2004-2005.

| Number of Days Attendance | 29160 |
| :--- | ---: |
| Total Daily Membership | 31500 |
| Attendance Rate | 92.6 |
| Attendance Index Score $_{2004-2005}$ | 92.6 |

Step 2. Repeating the procedure for 2005-2006 Attendance Data.

| Number of Days Attendance | 30140 |
| :--- | ---: |
| Total Daily Membership | 31600 |
| Attendance Rate | 95.3 |
| Attendance Index Score $2005-2006$ | $\mathbf{9 5 . 3}$ |

Step 3. Calculating the Student Behavior Index Score

```
Student Behavior Index Score 2004-2005-2005-2006 =
    [ Attendance Index Score 2004-2005 + Attendance Index Score 2005-2006] / 2
    Student Behavior Index Score = [92.6 + 95.3] / 2
    Student Behavior Index Score 2004-2005-2005-2006 = 94.0
```

Step 4. Comparing the Student Behavior Index Score
Compare the Student Behavior Index Score of 94.0 to the table below. For the example, the school earned a Strong Student Behavior Rating.

## Student Behavior Index Score Ranges

The ratings and corresponding index score ranges are shown below for all schools.

| Student Behavior Ratings |  |
| :--- | :---: |
| Rating |  |
| Exceptional | Index Score Range |
| Strong | 94.0 or higher |
| Satisfactory | $92.0-95.9$ |
| Low | $89.0-91.9$ |
| Unacceptable | less than 89.0 |

## Calculating the Improvement Index Score: Elementary/Middle School

## Improvement in Assessments and Attendance

The formula for the Improvement Index Score is
Improvement Index Score =
(.8 * Assessment Improvement Index Score) + (. 2 * Attendance Improvement Index Score)

We will calculate the Improvement Index Score $_{\text {емм }}$. The steps are listed below.
Step 1. Calculate the Reading Assessment Improvement Index Score
Step 2. Calculate the Math Assessment Improvement Index Score
Step 3. Calculate the Average Assessment Improvement Index Score
Step 4. Calculate an Attendance Improvement Index Score
Step 5. Calculate a Total Improvement Index Score
Step 6. Compare the Total Improvement Index Score to the table for an Improvement rating.
Step 1. Calculating the Reading Assessment Improvement Index Score
The Assessment Improvement Index Score reflects improvement in performance on Reading and Math Knowledge and Skills statewide assessments during the past four school years.

Reading

| School <br> Year | Assessment <br> Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| $2005-2006$ | 83.3 | Average of | Between |

The Reading Assessment Improvement Index is calculated by following the steps below.

- Calculate a Reading Assessment Index Score for the four school years 2005-2006, 2004-2005, 2003-2004, and 2002-2003 using the same procedures as discussed previously.
- Add the Reading Assessment Index Score ${ }_{2004-2005}$ and the Reading Assessment Index Score $_{2005-2006}$.
- Divide the sum by 2 for an average index for those two years.
- Add the Reading Assessment Index Score ${ }_{2002-2003}$ and the Reading Assessment Index Score 2003 -2004.
- Divide the sum by 2 for an average index for those two years.
- Subtract the two average index scores. This is the amount of improvement or difference during the four years.

Step 2. Calculating the Math Assessment Improvement Index Score The same procedure is used to calculate the Math Assessment Improvement Index using results from the Math Knowledge and Skills assessments.

| School <br> Year | Assessment <br> Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| $2005-2006$ | 82.6 | Average of <br> $2004-2005$ and 2005-2006 <br> 79.6 | Between <br> $2004-2005+2005-2006$ <br> $2004-2005$ |
| 20.6 | 78.6 | Average of |  |
| $2003-2004$ | 76.2 | 2002 and 2003-2004 <br> 77.4 | AND |
| $2002-2003$ |  | Math Assessment <br> Improvement Index Score | $\mathbf{2 0 0 2}+2003-2004$ |

Step 3. Calculating the Average Assessment Improvement Index Score The Average Assessment Improvement Index Score is the average of the index scores for Reading and Math Knowledge and Skills.

| Average Assessment Improvement Index Score |  |
| :--- | :---: |
| Content Area | Index Score |
| Reading Assessment Improvement <br> 2002-2003 to 2005-2006 | 7.3 |
| Math Assessment Improvement <br> 2002-2003 to 2005-2006 | 2.2 |
| Average Assessment <br> Improvement Index Score | 4.8 |

The Average Assessment Improvement Index Score is calculated by following the steps below.

- Add the Reading Assessment Improvement Index Score and the Math Assessment Improvement Index Score.
- Divide by 2 .
- Round to the nearest tenth of a point.


## Step 4. Calculating the Attendance Improvement Index Score

The Attendance Improvement Index Score reflects improvement in attendance over the past four school years. It is calculated by comparing the average of the two most recent years to the average of the previous two years.
\(\left.\left.$$
\begin{array}{|c|c|c|c|}\hline \begin{array}{c}\text { School } \\
\text { Year }\end{array}
$$ \& \begin{array}{c}Attendance <br>

Index Score\end{array} \& Averages \& Difference\end{array} \right\rvert\, $$
\begin{array}{c}\text { Between }\end{array}
$$\right]\)| AND |
| :---: |
| $2005-2006$ |

## Calculating the Attendance Improvement Index Score: Elementary/Middle School

The Attendance Improvement Index Score is calculated by following the steps below.

- Calculate the Attendance Index for the four years 2005-2006, 2004-2005, 2003-2004, and 2002-2003, using the procedures discussed previously.
- Add the Attendance Index Score $2005-2006$ and the Attendance Index Score $2004-2005$. [95.3 + $92.6=187.9]$
- Divide the sum by 2 for an average index for those two years.
[187.9 / 2 = 94.0]
- Add the Attendance Index ${ }_{2003-2004}$ and the Attendance Index ${ }_{2002-2003}$.
[90.2 + $88.5=178.7$ ]
- Divide the sum by 2 for an Average Attendance Index Score for those two years. [178.7 / 2 = 89.4]
- Subtract the average index scores. This is the amount of improvement or difference during the four years. [94.0-89.4 = 4.6]
- The Attendance Improvement Index Score in this example is 4.6.


## Step 5. Calculating the Total Improvement Index Score

The Total Improvement Index Score combines the assessment improvement and attendance improvement.

| Element | Index Score |  | Weight |  | Weighted Index |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Average Assessment Improvement | 4.8 | x | .8 | $=$ | 3.8 |
| Average Attendance Improvement | 4.6 | x | .2 | $=$ | 0.9 |
|  | Total Improvement Index Score |  |  | $\mathbf{4 . 7}$ |  |
|  |  |  |  |  |  |

## Step 6. Comparing the Total Improvement Index Score

We have calculated the Total Improvement Index Score as 4.7. Compare the Total Improvement Index Score of 4.7 to the table below to determine the rating for Improvement. For the example, the school has earned an Improvement Rating of Stayed About the Same.

| Improvement Ratings |  |
| :--- | :---: |
| Rating | Improvement Index <br> Score Range |
| Improved | 5.0 and higher |
| Stayed About the Same | $-4.9-+4.9$ |
| Declined | -5.0 and less |

## Calculating the School Characteristics Index Score: Elementary School

The School Characteristics Index Score is based on the percentage of eligible students that participated in the Oregon Statewide Assessments in the most recent year.

## School Characteristics Index Score 2005-2006 = Participation Rate

| School Year | Participation Rate |
| :---: | :---: |
| $2005-2006$ | 96.5 |

## Step 1: Calculating the Participation Rate

Use the report card definition of participation below. Include participation for each student enrolled on the first school day in May for each assessment included in the rating:

- Grade $3-8$ and 10: Reading/Literature and Math Knowledge and Skills
- Grades 4, 7, and 10: Writing

Number of Participating tests in reading, mathematics, and writing DIVIDED BY
Expected Number of Participating tests in reading, mathematics, and writing —Number tests from students that were ineligible for testing

Participation rate $=$ Number of participating tests/(expected number of participating tests - number of ineligible student tests)

$$
193 /(201-1)=96.5 \%
$$

Remember to exclude from the expected number of tests any student that was enrolled on the first school day in May but was not tested and was not enrolled during the school's test window.

## Step 2: Comparing the School Characteristics Index Score

The Participation Rate in the example is $96.5 \%$. For the example, the school earned an Exceptional School Characteristics rating.

| School Characteristics Rating |  |
| :--- | :---: |
| Rating |  |
| Exceptional | Participation Rate |
| Low | $89.5 \%$ and higher |
| Unacceptable | Less than $89.4 \%$ |

## Calculating the Overall School Rating: Elementary School

## Method 1: Weighted Average Method

In the example above, we calculated that the school received a Student Performance rating of Satisfactory and a Student Behavior Rating of Satisfactory. The Improvement rating was Stayed About the Same and the School Characteristics rating was Exceptional. Please refer to page 16 for rating scores that correspond to the ratings earned by the example school.

| Component | Index Score | Rating | Rating Score | Weight | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Student Performance | 81.0 | Satisfactory | 2 | . 8 | 1.6 |
| Student Behavior | 94.0 | Strong | 3 | . 2 | 0.6 |
| Improvement | 4.7 | Stayed About the Same | 0 | 1 | 0.0 |
|  |  | Overall Rating Index Score |  |  | 2.2 |

Compare the Overall Rating Index Score to the table below. The Overall Rating Index Score of 2.2 is converted into an Overall rating of Satisfactory.

| Overall Rating |  |
| :--- | :---: |
| Rating |  |
| Index Score Range |  |
| Exceptional | 4.0 and above |
| Strong | $3.0-3.9$ |
| Satisfactory | $1.5-2.9$ |
| Low | $1.0-1.4$ |
| Unacceptable | less than 1.0 |

## Method 2: Matrix Method

The Overall rating can also be determined by using the Overall Rating Matrix. To use this method, identify the row that matches the school ratings for Student Performance, Student Behavior, and Improvement. The full matrix of possible ratings is given beginning on page 17.

| Overall <br> Rating | Student <br> Performance | Student <br> Behavior | Improvement |
| :--- | :--- | :--- | :--- |
| Satisfactory | Low | Exceptional | Declined |
| Satisfactory | Low | Strong | Stayed about the Same |
| Satisfactory | Satisfactory | Satisfactory | Declined |
| Satisfactory | Satisfactory | Strong | Stayed about the Same |
| Satisfactory | Low | Strong | Declined |

In this example, the fourth row of the matrix correctly matches the ratings for the school. The Overall rating associated with that row is Satisfactory. However, if the school had received a rating of Low or Unacceptable in School Characteristics, the Overall rating would have been Low or Unacceptable.

## IX. An Example of Calculating Ratings: High School

## Introduction

The report card rating system is based on the following components: student performance on Oregon Statewide Assessments, attendance and dropout rates, and participation rates on statewide assessments. The rating system provides a method for combining index scores for the component ratings into a single number which is used to calculate the Overall rating.

Although there are many numbers, the calculations themselves are quite simple. You will need the score reports returned to the school by the Assessment Office of the Department of Education and the attendance and dropout data reported by the school to the Department.

## Background: Example for High School

For the purpose of this example, we will assume that students in Grade 10 were included in assessments in Reading and Math Knowledge and Skills, Writing, and Math Problem Solving. We will also assume that the school has attendance and dropout data.

Note that these same procedures apply to all schools with a Grade 12. For example, schools with grades K-12 or 7-12 are treated as high schools using the high school index scores for the purposes of issuing school report cards and ratings. The procedures used to generate ratings for elementary, middle, and high schools are identical, except that high schools include results from four assessments and dropout rates and use some different tables to convert index scores to ratings.

To calculate the Overall rating, we will need to calculate each of the four components. The example will show how this is done for each element:

- Student Performance Index Score
- Student Behavior Index Score
- Improvement Index Score
- School Characteristics Index Score


## Calculating the Student Performance Assessment Index Score

Student assessment results are used to calculate the Student Performance Index Score. The steps are listed below.

Step 1. Calculate a Reading Assessment Index Score using 2004-2005 data.
Step 2. Repeat the procedures for 2005-2006 Reading.
Step 3. Calculate a Math Assessment Index Score for Math Knowledge and Skills using 2004-2005 data.
Step 4. Repeat the procedures for 2005-2006 Math Knowledge and Skills.
Step 5. Calculate a Writing Assessment Index Score using 2004-2005 data.
Step 6. Repeat the procedures for 2005-2006 Writing.
Step 7. Using the Assessment Index Scores for Reading, Math Knowledge and Skills, and Writing, calculate the Total Assessment Index Score.
Step 8. Calculate the Student Performance Index Score by averaging the two total Assessment Index Scores.
Step 9. Compare the Student Performance Index Score to the table for a Student Performance Rating.

## Example: High School

## Step 1. Calculating a Reading Assessment Index Score ${ }_{2000-2005}$ for Grade 10

| Performance <br> Level | Number of Tests | Points | Total |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Exceed | 11 | 133 | 1463 |  |  |
| Meet | 15 | 100 | 1500 |  |  |
| Nearly Meet | 13 | 67 | 871 |  |  |
| Low | 7 | 33 | 231 |  |  |
| Very Low Total | 4 | 0 | 0 |  |  |
| 50 |  |  | 4065 |  |  |
| Score |  |  |  |  | $\mathbf{8 1 . 3}$ |

- Count the number of tests at each Performance Level. In the example, there were eleven students who scored Exceed the Standard on the Reading test. Note that it is possible to count all tests in the school across all grade levels tested; this is mathematically equivalent to counting each grade level, and then adding the sums together.
- Multiply the number of tests at each Performance Level by the points assigned for that Performance Level. In the example, the school receives 133 points for each student at the Exceed Performance Level. Since there were eleven tests at the Exceed level, the school calculates $11^{*} 133=1463$. This is done for each Performance Level.
- Add the total points for all the Performance Levels. In the example, the school had $(1463+1500+871+231+0)=4065$ total points.
- Add the total number of tests for all the Performance Levels. In the example, the school had $(11+15+13+7+4)=50$ total tests for the reading test.
- Divide the total points by the total number of tests for the Assessment Index Score. In the example, the school had 4065 total points, divided by 50 total tests $=81.3$ (rounded to the nearest tenth of a point).
- After calculating a score for Reading/Literature, Math Knowledge and Skills, and Writing, assessments during 2004-2005, repeat the procedures for results during school year 20052006. Then calculate a Total Assessment Index Score by multiplying the score for each assessment by its assigned weight and adding the weighted scores.

Step 2. Calculating a Reading Assessment Index Score ${ }_{2005-2006}$ Repeat the procedures for Reading during the school year 2005-2006.

## Step 3. Calculating a Math Assessment Index Score ${ }_{2004-2005}$

Repeat the procedures for Math during the school year 2004-2005.
Step 4. Calculating a Math Assessment Index Score ${ }_{2005-2006}$ Repeat the procedures for Math during the school year 2005-2006.

Step 5. Calculating a Writing Index Score ${ }_{2004-2005}$
Repeat the procedures for Writing during the school year 2004-2005.
Step 6. Calculating a Writing Index Score $_{2005-2006}$
Repeat the procedures for Writing during the school year 2005-2006.

## Step 7. Calculating a Total Assessment Index Score

After calculating the Total Assessment Index for the school year 2004-2005, repeat the procedure using the data for the school year 2005-2006.

| Total Assessment Index Score ${ }_{\text {2004-2005 }}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Test | Score | Weight | Total |
| Reading Knowledge and Skills | 81.3 | 39\% | 31.7 |
| Math Knowledge and Skills | 86.9 | 39\% | 33.9 |
| Writing | 79.0 | 22\% | 7.4 |
| Total |  | 100\% | 83.0 |
|  |  | Total Assessment Index Score 2004-2005 | 83.0 |


| Total Assessment Index Score $_{\text {2005-2006 }}$ |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test | Score | Weight | Total |  |  |  |  |
| Reading Knowledge and Skills | 75.3 | $39 \%$ | 29.4 |  |  |  |  |
| Math Knowledge and Skills | 84.3 | $39 \%$ | 32.9 |  |  |  |  |
| Writing | 80.0 | $22 \%$ | 17.6 |  |  |  |  |
| Total |  | $100 \%$ | 79.9 |  |  |  |  |
|  |  |  |  |  |  | Total Assessment Index Score $_{2005-2006}$ | 79.9 |
|  |  |  |  |  |  |  |  |

Step 8. Calculating the Student Performance Index Score
Average the Total Assessment Index Score ${ }_{2004-2005}$ and the Total Assessment Index Score ${ }_{2005-2006}$.
Student Performance Index Score ${ }_{2004-2005--2005-2006}=$
[Total Assessment Index Score ${ }_{2004-2005}+$ Total Assessment Index Score ${ }_{2005-2006}$ / 2
Student Performance Index Score $=[83.0+79.9] / 2$
Student Performance Index Score $_{2004-2005-2005-2006}=81.5$
Step 9. Comparing the Student Performance Index Score
Compare the Student Performance Index Score of 81.5 to the table below. For the example, the school earned a Satisfactory Student Performance rating.

High School

| Student Performance Index Score Ranges |  |
| :--- | :---: |
| Rating | Index Score Range |
| Exceptional | 100.0 or higher |
| Strong | $90.0-99.9$ |
| Satisfactory | $70.0-89.9$ |
| Low | $60.0-69.9$ |
| Unacceptable | Less than 60.0 |

## Calculating the Student Behavior Index Score: High School

## Calculating the Attendance Index Score: High School

## Step 1. Calculating the Attendance Index Score

The Attendance rate is calculated by dividing the Number of Days Attendance (days present) by the Total Daily Membership (days present + days absent). The two numbers are reported by the school and district to the Department of Education. First calculate for 2004-2005.

| Number of Days Attendance | 29160 |
| :--- | ---: |
| Total Daily Membership | 31500 |
| Attendance Rate | 92.6 |
| Attendance Index Score $_{2004-2005}$ | $\mathbf{9 2 . 6}$ |

Step 2. Repeating the procedure for 2005-2006 Attendance Data.

| Number of Days Attendance | 30140 |
| :--- | ---: |
| Total Daily Membership | 31600 |
| Attendance Rate | 93.4 |
| Attendance Index Score $_{2005-2006}$ | $\mathbf{9 3 . 4}$ |

Step 3. Averaging the Attendance Index Scores.

```
Student Attendance Index Score \(_{2004-2005-2005-2006}=\)
    [ Attendance Index Score \({ }_{2004-2005}+\) Attendance Index Score \(_{2005-2006}\) / 2
    Student Attendance Index Score \(=[92.6+93.4] / 2\)
    Student Attendance Index Score \({ }_{2004-2005-2005-2006}=93.0\)
```


## Calculating the Dropout Index Score: High School

## Step 1. Calculating the Dropout Index Score

The Dropout Index Score for one year is calculated by subtracting the dropout rate from 100.

## Dropout Index Score ${ }_{\text {ня }}=100$ - (Dropout Rate)

## Step 2. Calculating the Dropout Index Score

To calculate the Dropout Index Score, average the two years of Dropout Index Scores.
Dropout Index Score ${ }_{\text {HS }}=\left(\right.$ Dropout Index $^{\text {Score }}{ }_{2003-2004}+$ Dropout Index Score $\left._{2004-2005}\right) / 2$
For the example, assume the school has a dropout rate of $6.2 \%$ in 2003-2004 and $7.6 \%$ in 2004-2005. The Dropout Index ${ }_{2003-2004}$ is 93.8. The Dropout Index ${ }_{2004-2005}$ is 92.4. The average of the two years is 93.1. The Dropout Index Score 2003-2004-2004-2005 for the school is 93.1.

| School Year | Dropout Rate | Index Score | Average |
| :---: | :---: | :---: | :---: |
| $2003-2004$ | 6.2 | 93.8 |  |
| $2004-2005$ | 7.6 | 92.4 |  |
| Dropout Index Score |  | 93.1 |  |

Step 3. Calculating the Student Behavior Index Score
The Attendance and Dropout Index Scores are averaged together to produce the Student Behavior Index Score.
Student Behavior Index Score $_{2004-2005-2005-2006}=$
$\quad\left[\left(\right.\right.$ Attendance ${ }_{2004-2005}+$ Attendance $\left.2005-2006\right)+($ Dropout $2003-2004+$ Dropout 2004-2005 $\left.)\right] / 2$

| Element | Index Score |
| :---: | :---: |
| Attendance (Average of 2004-2005 and 2005-2006) | 93.0 |
| Dropout (Average of 2003-2004 and 2004-2005) | 93.1 |
| Student Behavior Index Score | $\mathbf{9 3 . 1}$ |

Step 4. Comparing the Student Behavior Index Score of 93.1 to the table below. For the example, the school earned a Satisfactory Student Behavior Rating.

| Student Behavior Ratings |  |
| :--- | :---: |
| Rating |  |
| Index Score Range |  |
| Exceptional | 96.0 or higher |
| Strong | $94.0-95.9$ |
| Satisfactory | $92.0-93.9$ |
| Low | $89.0-91.9$ |
| Unacceptable | less than 89.0 |

## Calculating the Improvement Index Score: High School Improvement in Assessments, Attendance, Dropout

The formula for the Improvement Index Score is

## Improvement Index Score =

(. 8 * Assessment Improvement Index Score) + (. 2 * Attendance Improvement Index Score)

We will calculate the Improvement Index Score through the following steps:
Step 1. Calculate the Reading Assessment Improvement Index Score
Step 2. Calculate the Math Assessment Improvement Index Score
Step 3. Calculate the Average Assessment Improvement Index Score
Step 4. Calculate an Attendance Improvement Index Score
Step 5. Calculate a Dropout Improvement Index Score
Step 6. Combining for an Average Attendance/Dropout Improvement Index Score
Step 7. Calculate a Total Improvement Index Score
Step 8. Compare the Total Improvement Index Score to the table for an Improvement rating

## Step 1. Calculating the Reading Assessment Improvement Index Score

The Assessment Improvement Index Score reflects improvement in performance on Reading and Math Knowledge and Skills statewide assessments during the past four school years.

## Reading

| School <br> Year | Assessment <br> Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| $2005-2006$ | 75.3 | 2004-2005 and 2005-2006 <br> 78.3 | Between |
| $2004-2005$ | 81.3 | 77.0 | 2002-2003 and 2003-2004 <br> 75.9 |
| $2003-2004$ | 74.8 | AND |  |
| $2002-2003$ |  | Reading Assessment <br> Improvement Index Score | $\mathbf{2 0 0 4}$ 2002-2003+2003-2004 |

The Reading Assessment Improvement Index is calculated by following the steps below.

- Calculate a Reading Assessment Index Score for the four school years 2005-2006, 2004-2005, 2003-2004, and 2002-2003 using the same procedures as discussed previously.
- Add the Reading Assessment Index Score ${ }_{2005-2006}$ and the Reading Assessment Index Score $2004-2005$.
- Divide the sum by 2 for an average index for those two years. Round to one decimal place.
- Add the Reading Assessment Index Score ${ }_{2003-2004}$ and the Reading Assessment Index Score $_{2002-2003}$.
- Divide the sum by 2 for an average index for those two years. Round to one decimal place.
- Subtract the two average index scores. This is the amount of improvement or difference during the four years.

Step 2. Calculating the Math Assessment Improvement Index Score
The same procedure is used to calculate the Math Assessment Improvement Index Score using results from the Math Knowledge and Skills assessments.

Math

| School <br> Year | Assessment <br> Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| $2005-2006$ | 84.3 | $2004-2005$ and 2005-2006 | Between |
| $2004-2005$ | 86.9 | 85.6 | 2004-2005 +2005-2006 <br> AND |
| $2003-2004$ | 84.0 | $2002-2003$ and 2003-2004 | AN |
| $2002-2003$ | 82.4 | Math Assessment | 2.4 |

Step 3. Calculating the Average Assessment Improvement Index Score The Average Assessment Improvement Index Score is the average of the Improvement Index Scores for Reading and Math Knowledge and Skills.

| Average Assessment Improvement Index Score |  |
| :---: | :---: |
| Content Area | Index Score |
| Reading Assessment Improvement <br> 2002-2003 to 2005-2006 | 2.4 |
| Math Assessment Improvement <br> 2002-2003 to 2005-2006 | 2.4 |
| Average Assessment <br> Improvement Index Score | $\mathbf{2 . 4}$ |

The Average Assessment Improvement Index Score is calculated by following the steps below.

- Add the Reading Assessment Improvement Index Score and the Math Assessment Improvement Index Score.
- Divide by 2.
- Round to the nearest tenth of a point.

Step 4. Calculating the Attendance Improvement Index Score
The Attendance Improvement Index score reflects improvement in attendance over the past four school years. It is calculated by comparing the average of the two most recent years to the average of the previous two years.

| School Year | Attendance Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| 2005-2006 | 93.4 | $\begin{gathered} \text { 2004-2005 and 2005-2006 } \\ 93.0 \end{gathered}$ | Between$\begin{gathered} 2004-2005+2005-2006 \\ \text { AND } \\ 2002-2003+2003-2004 \end{gathered}$ |
| 2004-2005 | 92.6 |  |  |
| 2003-2004 | 90.2 | $\begin{gathered} \text { 2002-2003 and 2003-2004 } \\ 89.4 \end{gathered}$ |  |
| 2002-2003 | 88.5 |  |  |
|  |  | Attendance Improvement Index Score | 3.6 |

## Calculating the Attendance Improvement Index Score: High School

The Attendance Improvement Index Score is calculated by following the steps below.

- Calculate the Attendance Index for the four years 2005-2006, 2004-2005, 2003-2004, and 2002-2003, using the procedures discussed previously.
- Add the Attendance Index Score $_{2005-2006}$ and the Attendance Index Score 20004-2005 . [93.4 + 92.6 = 186.0]
- Divide the sum by 2 for an average index for those two years. [186.0/2 $=93.0$ ]
- Add the Attendance Index ${ }_{2003-2004}$ and the Attendance Index $x_{2002-2003 .}$ [88.5+90.2 = 178.7]
- Divide the sum by 2 for an Average Attendance Index Score for those two years. [178.7 / 2 = 89.4]
- Subtract the average index scores. This is the amount of improvement or difference during the four years. [93.0-89.4 $=3.6$ ]
- The Attendance Improvement Index Score in this example is 3.6.


## Step 5. Calculating a Dropout Improvement Index

The Dropout Improvement Index score reflects improvement in the dropout rate over the past four school years. It is calculated by comparing the average of the two most recent years to the average of the previous two years.

| School <br> Year | Dropout <br> Index Score | Averages | Difference |
| :---: | :---: | :---: | :---: |
| $2004-2005$ | 92.4 | 2003-2004 and 2004-2005 | Between |
| $2003-2004$ | 93.8 | 93.1 | 2003-2004 +2004-2005 |
| $2002-2003$ | 89.2 | 2001-2002 and 2002-2003 <br> 86.9 | AND |
| $2001-2002$ | 84.6 | Dropout Improvement <br> Index Score | $\mathbf{6 . 2}$ |

## Calculating the Dropout Improvement Index Score: High School

The Dropout Improvement Index Score is calculated by following the steps below.

- Calculate the Dropout Index for the four years 2004-2005, 2003-2004, 2002-2003, and 2001-2002 using the procedures discussed previously.
- Add the Dropout Index Score ${ }_{2004-2005}$ and the Dropout Index Score ${ }_{2003-2004}$. [92.4+ $93.8=186.2$ ]
- Divide the sum by 2 to get an average index score for those two years. [186.2 / 2 = 93.1]
- Add the Dropout Index Score ${ }_{2002-2003}$ and the Dropout Index Score ${ }_{2001-2002}$. [89.2 + $84.6=173.8$ ]
- Divide the sum by 2 to get an average index score for those two years. [173.8 / 2 = 86.9]
- Subtract the average index scores. This is the amount of improvement or difference during the four years. [93.1-86.9 = 6.2]
- The Dropout Improvement Index Score in this example is 6.2.


## Step 6. Combining the Attendance Improvement Index Score and the Dropout Improvement Index Score

## Attendance/Dropout Improvement Index Score= <br> (Attendance Improvement + Dropout Improvement) / 2 <br> $(3.6+6.2) / 2=4.9$

Step 7. Calculating the Total Improvement Index Score
The Total Improvement Index combines the assessment improvement and attendance improvement.

| Element | Index Score |  | Weight |  | Weighted Index |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Average Assessment Improvement | 2.4 | X | . 8 | $=$ | 1.9 |
| Average Attendance/Dropout Improvement | 4.9 | x | . 2 | = | 1.0 |
|  | Total Improvement Index Score |  |  |  | 2.9 |

## Step 8. Comparing the Total Improvement Index Score

The Total Improvement Index Score as 2.9. Compare the Total Improvement Index Score of 2.9 to the table below to determine the rating for Improvement. For this example, the school has earned an Improvement Rating of Stayed About the Same.

| Improvement Ratings |  |
| :--- | :---: |
| Rating | Improvement <br> Index Score Range |
| Improved | 5.0 and higher |
| Stayed About the Same | $-4.9-+4.9$ |
| Declined | -5.0 and less |

## Calculating the School Characteristics Index Score: High School

The School Characteristics Index Score is based on the percentage of eligible students that participated in the Oregon Statewide Assessments in the most recent year.

## School Characteristics Index Score 2005-2006 = Participation Rate

| School Year | Participation Rate |
| :---: | :---: |
| $2005-2006$ | 96.0 |

## Step 1: Calculating the Participation Rate

Use the report card definition of participation below. Include participation for each student enrolled on the first school day in May for each assessment included in the rating:

- Grade 3, 5, 8, 10: Reading/Literature and Math Knowledge and Skills
- Grades 4, 7, and 10: Writing

Number of Participating tests in reading, mathematics, and writing DIVIDED BY
Expected Number of Participating tests in reading, mathematics, and writing —Number tests from students that were ineligible for testing

Participation rate $=$ Number of participating tests/(expected number of participating tests - number of ineligible student tests)
192/(201-1) = 96.0\%

Remember to exclude from the expected number of tests any student that was enrolled on the first school day in May but was not tested and was not enrolled during the school's test window.

## Step 2: Comparing the School Characteristics Index Score

The Participation Rate in the example is $96.0 \%$. For the example, the school earned an Exceptional School Characteristics rating.

| School Characteristics Rating |  |
| :--- | :---: |
| Rating |  |
| Exceptional | Participation Rate |
| Low | $89.5 \%$ and higher |
| Unacceptable | Less than $89.4 \%$ |

# Calculating the Overall School Rating: High School 

## Method 1: Weighted Average Method

In the example above, we calculated that the school received a Student Performance rating of Satisfactory and a Student Behavior rating of Satisfactory. The Improvement rating was Stayed About the Same and the School Characteristics rating was Exceptional. Please refer to page 16 for rating scores that correspond to the ratings earned by the example school.

| Component | Index <br> Score | Rating | Rating <br> Score | Weight | Total |
| :--- | ---: | :--- | :---: | :---: | :---: |
| Student Performance | 81.0 | Satisfactory | 2 | .80 | 1.6 |
| Student Behavior | 93.1 | Satisfactory | 2 | .20 | 0.4 |
| Improvement | 2.9 | Stay about the same | 0 | 1 | 0.0 |
|  |  | Overall Rating Index Score |  | $\mathbf{2 . 0}$ |  |
|  |  |  |  |  |  |

Compare the Overall Rating Index Score of 2.0 to the table below. The Overall Rating Index Score of 2.0 is converted into an Overall rating of Satisfactory.

| Overall Rating |  |
| :--- | :---: |
| Rating |  |
| Index Score Range |  |
| Stroptional | 4.0 and above |
| Satisfactory | $3.0-3.9$ |
| Low | $1.5-2.9$ |
| Unacceptable | $1.0-1.4$ |

## Method 2: Matrix Method

The Overall rating can also be determined by using the Overall Rating Matrix. To use this method, identify the row that matches the school ratings for Student Performance, Student Behavior, and Improvement. The full matrix of possible ratings is given beginning on page 17.

In this example case, the fourth row of the matrix correctly matches the ratings for the school. The Overall rating associated with that row is Satisfactory. However, if the school had received a rating of Low or Unacceptable in School Characteristics, the Overall rating would have been Low or Unacceptable.

| Overall <br> Rating | Student <br> Performance | Student <br> Behavior | Improvement |
| :--- | :--- | :--- | :--- |
| Satisfactory | Low | Exceptional | Declined |
| Satisfactory | Low | Strong | Stayed about the Same |
| Satisfactory | Satisfactory | Satisfactory | Declined |
| Satisfactory | Satisfactory | Satisfactory | Stayed about the Same |
| Satisfactory | Low | Strong | Declined |

## X. Resources and Background Materials

There are many Oregon School Report Card resources available. Most of these can be accessed at http://www.ode.state.or.us/search/results/?id=116. There are also many links to other resources at the ODE website. Please contact (503) 378-3600 if you would like hardcopies of the following items:

1. The ODE report card website contains all past editions of school and district report cards http://www.ode.state.or.us/data/reportcard/reports.aspx
2. The 1999 Legislation that created the Oregon School Report Card http://www.leg.state.or.us/99reg/measures/sb1300.dir/sb1329.en.html
3. The Oregon Administrative Rules that describe the report card ratings http://arcweb.sos.state.or.us/rules/OARS_500/OAR_581/581_022.html
4. National research that summarizes the public expectations for school report cards http://counts.edweek.org/sreports/qc99/opinion/edweekresults.pdf
5. A communications toolkit prepared by OSBA for districts and schools http://www.osba.org/hotopics/rptcard/index.htm
6. How to Read the Oregon School and District Report Cards
http://www.ode.state.or.us/search/results/?id=273
7. Information on the Oregon Statewide Assessments http://www.ode.state.or.us/search/results/?id=169
8. NCLB Non-Regulatory Guidance on School, District, and State Report Cards http://www.ed.gov/programs/titleiparta/reportcardsguidance.doc
