

A series of five dark blue silhouettes of people are arranged along a green, upward-curving line that represents a hill. From left to right, the silhouettes show a person sitting on the ground, a person walking, a person walking with a backpack, a person walking with a backpack, and a person wearing a graduation cap.

Indiana Department of Education

Glenda Ritz, NBCT

Indiana Superintendent of Public Instruction

INDIANA'S STUDENT-CENTERED ACCOUNTABILITY SYSTEM

GROWTH CALCULATION

Cynthia Roach; Maggie Paino
December 2, 2015

BACKGROUND & REQUIREMENTS

A series of small black silhouettes of people in various walking and running poses, positioned along a green, curved line that represents a hill or a path.

Indiana
Department of Education

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

BACKGROUND & REQUIREMENTS

Accountability System Review Panel Work

- Individual student growth should be utilized in the accountability system
- Student growth should be a criterion metric within the accountability system.
- Growth should be a unique metric independent of school performance status. The metric should have a low correlation to performance
- Growth should incentivize progress toward proficiency in non-proficient students and continued growth in proficient students.
- Growth should deter a decline in individual student performance levels.



HOW TO CALCULATE GROWTH

A series of black silhouettes of people in various walking and climbing poses, positioned along a green, upward-curving line that represents a hill or a path. The silhouettes are of different sizes and are spaced out along the curve.

Indiana
Department of Education

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

HOW TO CALCULATE GROWTH

Growth

Regardless of whether the child passed the test, did the child do better on the test this year than last year?

HOW TO CALCULATE GROWTH

Growth Calculation

Growth calculation students will include the following:

- Students enrolled for at least 162 days with two consecutive years of ISTEP+ test results

Growth calculation students will not include the following:

- Students in Grade 3
- Students who have been retained
- Students who move in from out of state, home school, or school that did not administer ISTEP+
- Student who did not test in the prior year for any reason
- Student who took some form of alternate assessment

HOW TO CALCULATE GROWTH

Growth Calculation

First: Identify which students are in the following:

- Top 75% performance from last year
- Bottom 25% performance from last year

Using the results from the prior ISTEP+ test, in each grade in your school, order the students from lowest Scale Score to highest. Those students in the bottom 25% in each grade will represent your Bottom 25% performance. The rest of the students will represent your Top 75% performance.

EXAMPLE: If you have 20 students ordered from lowest Scale Score to highest, the lowest 5 scores would be the Bottom 25% and the other 15 would be the Top 75%.

These students will then represent the students you need to grow for each category along with how they performed last year.



Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

HOW TO CALCULATE GROWTH

Growth Calculation

Second: Once new results are released, assign points based on Student Observed Growth Chart

Prior Year Status	SAMPLE Observed Growth					
	Negative/Low Movement		Static/Typical/Normal Movement		Positive/High Movement	
	Target Range	Points	Target Range	Points	Target Range	Points
Pass+ 2	1-41	75	42-66	125	67-99	150
Pass+ 1	1-39	75	40-64	125	65-99	150
Pass 3	1-36	50	37-61	100	62-99	125
Pass 2	1-34	50	35-59	100	60-99	125
Pass 1	1-31	50	32-56	100	57-99	125
Did Not Pass 3	1-29	0	30-54	50	55-99	100
Did Not Pass 2	1-26	0	27-51	50	52-99	100
Did Not Pass 1	1-24	0	25-49	50	50-99	100

NOTE: *Negative/Low Movement indicates that the student performance on current test is actually behind that of the performance on the prior test. In other words, student went backwards in growth. Positive/High Movement for the Did Not Pass category does indicate that the student will succeed in passing the test within 3 years.*

HOW TO CALCULATE GROWTH

Growth Calculation

Grade 12 Improvement

- Mathematics Points: Percentage of students not passing the Mathematics graduation exam by the end of Grade 10 that do pass by the end of Grade 12, times 10.
- English/Language Arts Points: Percentage of students not passing the English/Language Arts graduation exam by the end of Grade 10 that do pass by the end of Grade 12, times 10.

Overall Growth Calculation by Subject

- Add the Grades 4-10 Bottom 25% and Top 75% for each subject and divide by 2.
- Add the Grade 12 improvement value for each subject to the Grades 4-10 growth value.

Final Growth Calculation

- Add overall mathematics growth and overall English/Language Arts growth together and divide by 2.



HOW TO CALCULATE GROWTH

Growth											
	Top 75% Observed Growth	Bottom 25% Observed Growth	Points			Gr 12 Improvement	Points	Points	Weight	Final Points	
Math Total Points	1150	375				# From Cohort Passed by Gr 12					
Math Number of Students	12	4				# From Cohort Not Passed in Gr 10					
Math Average Points	95.8	93.8	94.8				0.0%	0.0	94.8	0.5	47.40
Eng/Language Arts Total Points	1350	275				# From Cohort Passed by Gr 12	5				
Eng/Language Arts # Students	12	4				# From Cohort Not Passed in Gr 10	10				
Eng/Language Arts Avg Points	112.5	68.8	90.6				50.0%	5.0	95.6	0.5	47.81
Total Growth Points:									1	95.21	



Indiana Department of Education

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

NEXT STEPS: STATE BOARD OF EDUCATION & DEPARTMENT OF EDUCATION



NEXT STEPS

Current Work of SBOE Staff & IDOE Staff:

- Point Values
 - Reviewing assignment of point values for each observed growth score and distribution thereof against preliminary 14/15 data



Indiana
Department of Education

The background of this section shows a green, curved line representing a hill. Silhouettes of several people are walking along the top of the hill from left to right. The first person is a small figure, followed by a person in a wheelchair, then a person walking, and finally a person in a graduation cap and gown.

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

NEXT STEPS

511 IAC 6.2-10-2

- SBOE approves the observed growth table, publishes table for the public and establishes the effective date of the table
- Prior to final action:
 - Provide public notice of table at least 30 days before
 - Accept and consider public comment



NEXT STEPS

Timeline

- January: SBOE & IDOE staffs to present recommended values table to SBOE as action item to approve recommendation
- January – February: Public Comment window
- March: SBOE adopts values table



Indiana
Department of Education

The background of this section shows a green, curved line representing a hill. Silhouettes of five people are walking along the top of the hill from left to right. The first person is a child, followed by an adult, and then three more adults.

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

NEXT STEPS

Additional Consideration

Additional accountability components, including Educator Effectiveness growth ratings, should be evaluated for potential alignment to observed growth where available.

QUESTIONS

A series of small black silhouettes of people in various walking and running poses are arranged along a green, wavy line that represents a hill or a path. The silhouettes are positioned at different points along the curve of the line, suggesting movement and progress.

Indiana
Department of Education

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction