



Growth is a measurement tool to ensure that a student receives, at a minimum, one year's worth of learning in one year. If, based on the prediction model, the students on average in a school receive at least one year's learning in one year, the school will have met growth.

To be included in the growth predictions, a student must meet three criteria:

- meet full academic year at the district level in both 2007/2008 and 2008/2009,
- have MCT2 scores from 2007/2008, and
- have 2008/2009 score(s) from MCT2 Grade 8 Algebra, Grade 9 Algebra, and/or Grade 9 Biology.

It is important to note that since growth on each of the subject area tests is predicted from performance on the MCT2, growth on the English II subject area test cannot be predicted prior to 2009/2010 testing and growth on the US History subject area test cannot be predicted prior to 2010/2011 testing. This delay is a result of the year in which students are typically tested on the subject area test.

Knowing the student's performance on both the Language Arts and Mathematics sections of the 2007-2008 MCT2 and the average performance of all students in the state, a regression model was developed to predict the student's performance on the 2008-2009 MCT2, Algebra I and Biology I tests.

The difference between a student's actual MCT score and his/her expected (predicted) scale score on either the MCT2 or the SATP is called a residual. The residual values for the student level predictions are averaged to yield a raw mean residual for the school. The raw mean residuals are standardized (for comparability), weighted according to the number of students, and combined. When combined, the standardized weighted growth residuals form the school's growth composite. If the growth composite value reaches zero, the school has met its expected growth for the year. If the value falls below zero, the school has failed to meet its expected growth.

Subject Area Test	Student N-Count	Mean Raw Residual	Mean Standardized Residual	Weighted Mean Standardized Residual
Mississippi Curriculum Test, 2nd Edition (MCT2)				
MCT2 Language Arts: 2008 Grade 3 to 2009 Grade 4	84	1.621	0.213	0.019
MCT2 Mathematics: 2008 Grade 3 to 2009 Grade 4	85	-0.100	-0.014	-0.001
MCT2 Language Arts: 2008 Grade 4 to 2009 Grade 5	90	-0.582	-0.080	-0.007
MCT2 Mathematics: 2008 Grade 4 to 2009 Grade 5	90	-1.644	-0.225	-0.021
MCT2 Language Arts: 2008 Grade 5 to 2009 Grade 6	93	1.053	0.151	0.015
MCT2 Mathematics: 2008 Grade 5 to 2009 Grade 6	93	0.438	0.062	0.006
MCT2 Language Arts: 2008 Grade 6 to 2009 Grade 7	70	3.310	0.419	0.030
MCT2 Mathematics: 2008 Grade 6 to 2009 Grade 7	70	0.854	0.131	0.009
MCT2 Language Arts: 2008 Grade 7 to 2009 Grade 8	93	1.237	0.168	0.016
MCT2 Mathematics: 2008 Grade 7 to 2009 Grade 8	93	3.365	0.434	0.042
Mississippi Subject Area Testing Program (SATP)				
Algebra I 2008/2009 Grade 8 (from 2008 MCT2)	13	4.568	0.548	0.007
Algebra I 2008/2009 Grade 9 (from 2008 MCT2)	80	0.194	0.025	0.002
Biology I 2008/2009 Grade 9 (from 2008 MCT2)	14	5.030	0.153	0.002
				↓ Sum ↓
Growth Composite				0.119

Met Growth, Growth Composite Zero or Greater