

# Lexington Public Schools

146 Maple Street ♦ Lexington, Massachusetts 02420

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TO : PAUL ASH

FROM : TOM PLATI, DIRECTOR OF EDUCATIONAL TECHNOLOGY & ASSESSMENT

RE: 2012 MCAS ANALYSIS

DATE: NOVEMBER 16, 2012

At the November 27th School Committee, I will present a report of Lexington's 2012 MCAS results. In addition to presenting the results at major grade levels, the report will emphasize the new ways educators and the public can look at MCAS data. Of particular note in this regard, is the one page handout I prepared titled "*Attachment A- Accessing MCAS Data Directly from D.E.S.E. Website.*" Utilizing directions in this handout, parents, teachers, and other interested parties can obtain a wealth of information about our MCAS performances as well as the performances of students in other school districts.

Also included in this packet are the following background documents.

Attachment B- MCAS 2009 through 2012 comparison performances in all the different grades and subjects

Attachment C- A letter explaining the MCAS Student Growth Model from Mitchell Chester, the Commissioner of Elementary and Secondary Education

Attachment D – School Median Student Growth Reports for 2012 for our different grade levels

Attachment E- MCAS Comparison performances 2009 through 2012 for our Grade 5, 8, and 10 special education students

# Attachment A

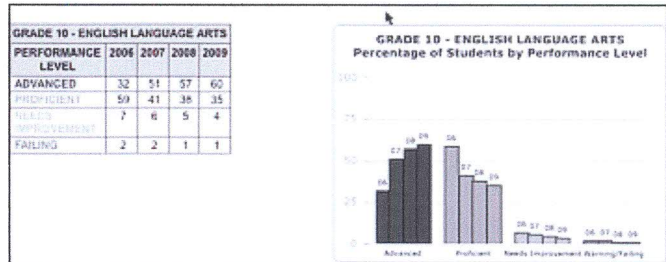
## ACCESSING MCAS DATA DIRECTLY FROM D.E.S.E. Website (<http://www.doe.mass.edu>)

1. Click on **Massachusetts School and District Profiles Directory**
2. Select **Public School District** or **School** and then **Lexington** from choices and click **Search**
3. Select **Lexington** or **Lexington:your school name**
4. Select **Assessment tab**
5. Important choices

- › MCAS Percent of Students at Each Performance Level
- › **MCAS Annual Comparisons**
- › Item by Item Results (for each Grade/Subject)
- › MCAS Student Growth Report
- › MCAS Results by Subgroup
- › Participation Report
- › High School Science and Technology/Engineering Results
- › Advanced Placement Performance
- › Advanced Placement Participation
- › SAT Performance

- MCAS Annual Comparisons
- Item by Item results (for each grade/Subject)
- MCAS Student Growth Report

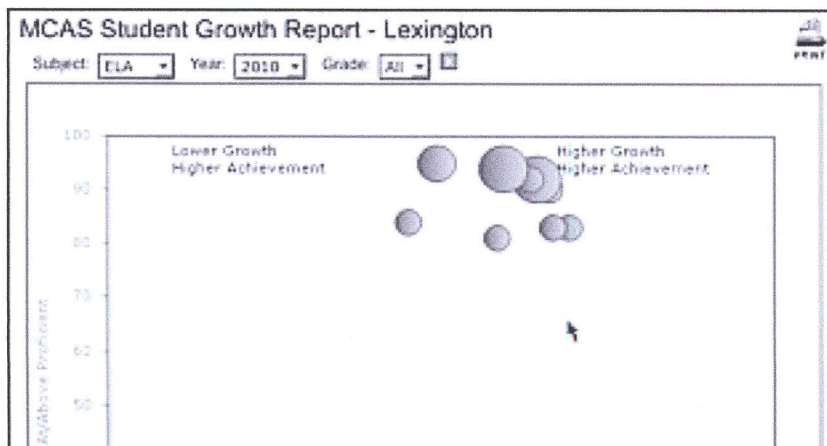
### MCAS Annual Comparisons



### Item by Item results

Item by Item Results (for each Grade/Subject)	Lexington - GRADE 03 READING											
	AVERAGE ITEM SCORE						PERCENT OF DISTRICT'S TOTAL STUDENT RESPONSES (for each MC answer or OR score point)					
	ITEM	TYPE	REPORTING CATEGORY	STANDARD	LEXINGTON	STATE	BLANK/0	A/1	B/2	C/3	D/4	CORRECT MC ANSWER
› GRADE 03 - READING												
› GRADE 03 - MATHEMATICS												
› GRADE 04 - ENGLISH LANGUAGE ARTS												
› GRADE 04 - MATHEMATICS	01	MC	LT	3.13	92%	86%	0	3	0	92	5	C
› GRADE 05 - ENGLISH LANGUAGE ARTS	02	MC	LT	3.8	89%	77%	0	3	4	5	89	D
› GRADE 05 - MATHEMATICS	03	MC	LT	3.8	89%	82%	0	89	4	2	5	A
› GRADE 05 - MATHEMATICS	04	MC	LT	3.8	90%	77%	0	3	90	1	6	B
› GRADE 05 - SCIENCE AND TECHNOLOGY	05	MC	LT	3.13	93%	78%	0	0	3	93	5	C
› GRADE 06 - ENGLISH LANGUAGE ARTS	06	MC	LT	3.13	90%	79%	0	1	90	4	5	B
	07	MC	LT	3.13	91%	83%	0	4	3	1	91	D
	08	MC	LT	3.13	80%	64%	0	80	10	5	5	A

### MCAS Student Growth Report



ATTACHMENT B

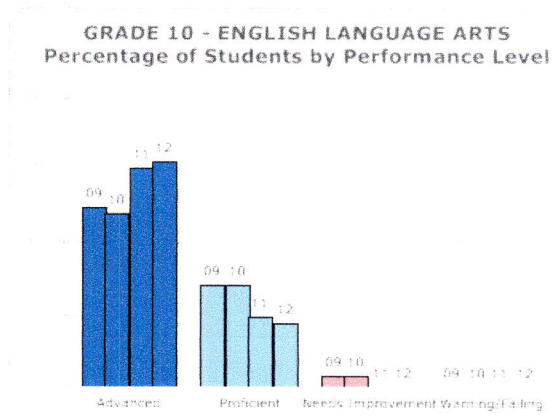
**Massachusetts School and District Profiles  
Lexington High**

**MCAS Annual Comparisons**

\* NOTE: Performance level percentages are not calculated if student group less than 10.  
Data Last Updated on September 27, 2012

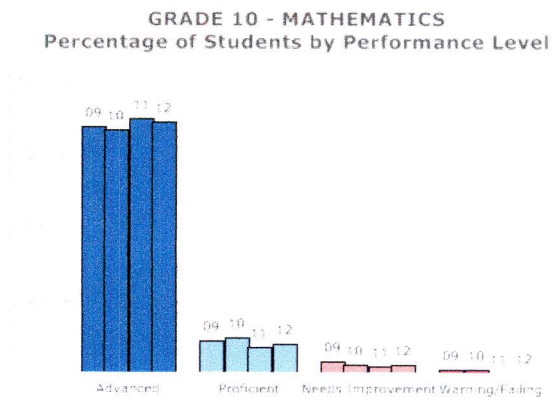
**GRADE 10 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	62	60	76	78
PROFICIENT	35	35	24	22
NEEDS IMPROVEMENT	4	4	0	0
FAILING	0	0	0	0



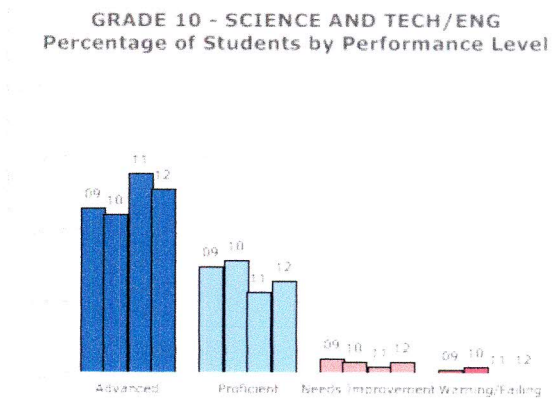
**GRADE 10 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	85	84	88	87
PROFICIENT	11	12	9	10
NEEDS IMPROVEMENT	4	3	2	3
FAILING	1	1	0	0



**GRADE 10 - SCIENCE AND TECH/ENG  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	57	55	69	64
PROFICIENT	37	39	28	32
NEEDS IMPROVEMENT	5	4	2	4
FAILING	1	2	0	0

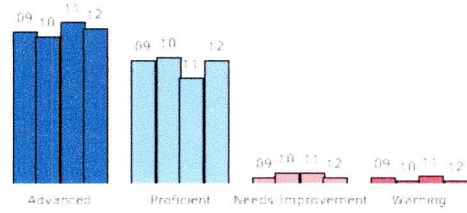


**ATTACHMENT B (continued)**

**GRADE 08 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	53	51	56	54
PROFICIENT	43	44	37	43
NEEDS IMPROVEMENT	2	4	4	2
WARNING	2	1	3	1

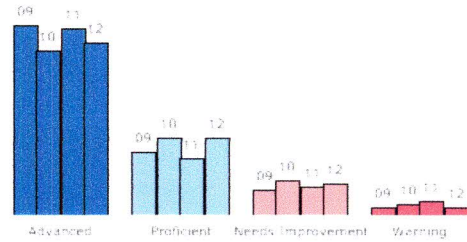
**GRADE 08 - ENGLISH LANGUAGE ARTS  
Percentage of Students by Performance Level**



**GRADE 08 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	66	57	65	60
PROFICIENT	22	27	20	27
NEEDS IMPROVEMENT	9	12	10	11
WARNING	3	4	5	3

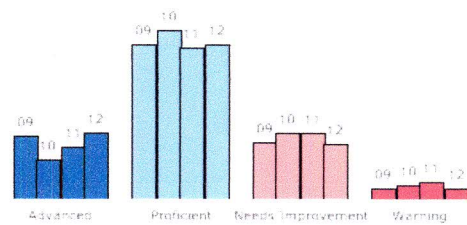
**GRADE 08 - MATHEMATICS  
Percentage of Students by Performance Level**



**GRADE 08 - SCIENCE AND TECH/ENG  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	22	14	18	23
PROFICIENT	54	59	53	54
NEEDS IMPROVEMENT	20	23	23	19
WARNING	4	5	6	4

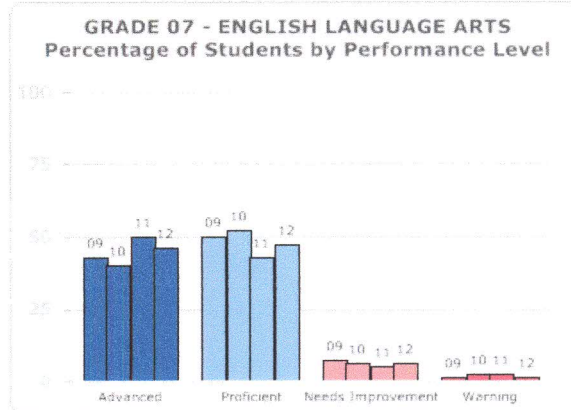
**GRADE 08 - SCIENCE AND TECH/ENG  
Percentage of Students by Performance Level**



**ATTACHMENT B (continued)**

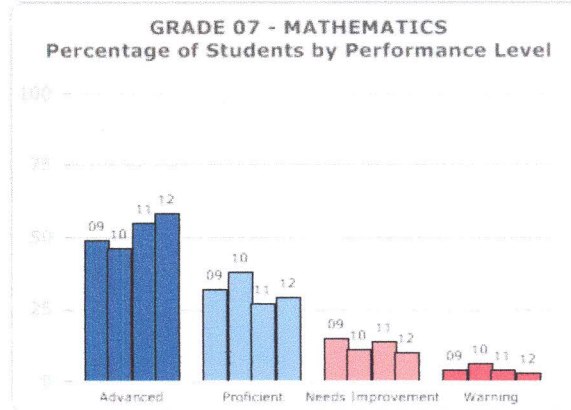
**GRADE 07 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

<b>ADVANCED</b>	43	40	50	46
<b>PROFICIENT</b>	50	52	43	47
<b>NEEDS IMPROVEMENT</b>	7	6	5	6
<b>WARNING</b>	1	2	2	1



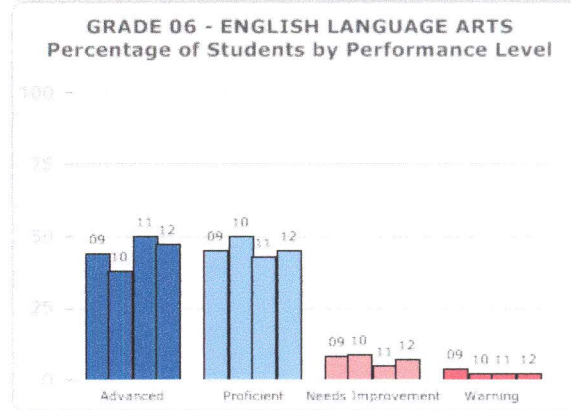
**GRADE 07 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

<b>ADVANCED</b>	49	46	55	58
<b>PROFICIENT</b>	32	38	27	29
<b>NEEDS IMPROVEMENT</b>	15	11	14	10
<b>WARNING</b>	4	6	4	3



**GRADE 06 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

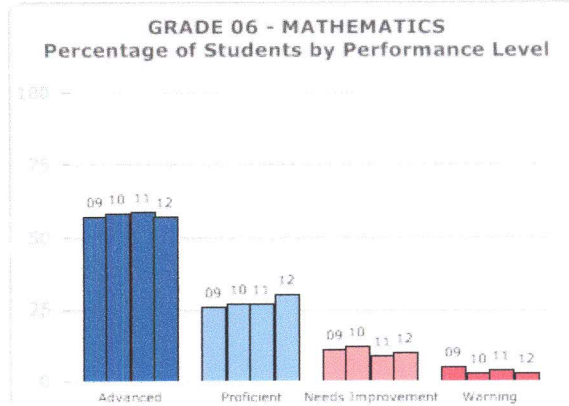
<b>ADVANCED</b>	44	38	50	47
<b>PROFICIENT</b>	45	50	43	45
<b>NEEDS IMPROVEMENT</b>	8	9	5	7
<b>WARNING</b>	4	2	2	2



**ATTACHMENT B (continued)**

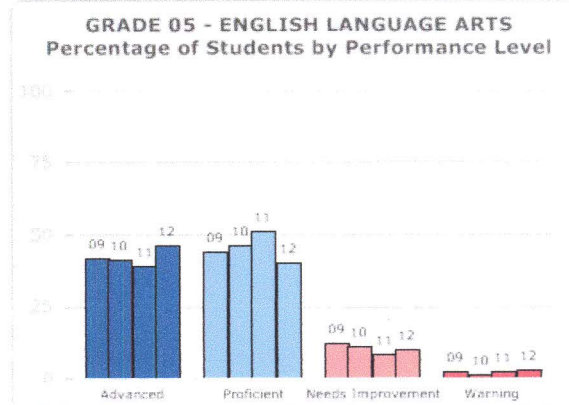
**GRADE 06 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	57	58	59	57
PROFICIENT	26	27	27	30
NEEDS IMPROVEMENT	11	12	9	10
WARNING	5	3	4	3



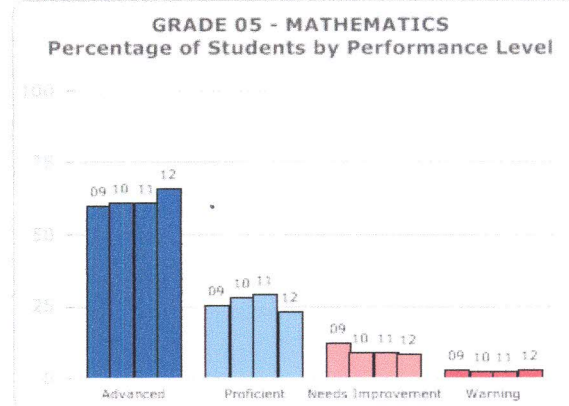
**GRADE 05 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	42	41	39	46
PROFICIENT	44	46	51	40
NEEDS IMPROVEMENT	12	11	8	10
WARNING	2	1	2	3



**GRADE 05 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

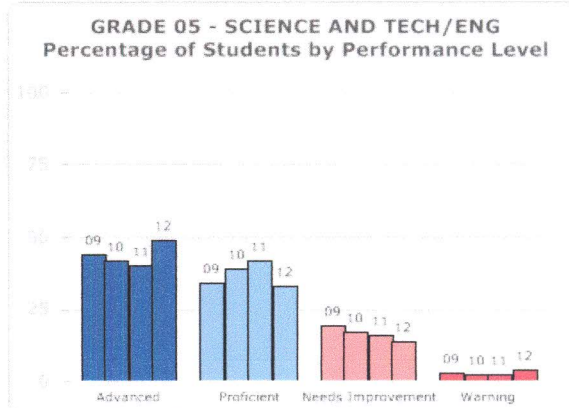
ADVANCED	60	61	61	66
PROFICIENT	25	28	29	23
NEEDS IMPROVEMENT	12	9	9	8
WARNING	3	2	2	3



**ATTACHMENT B (continued)**

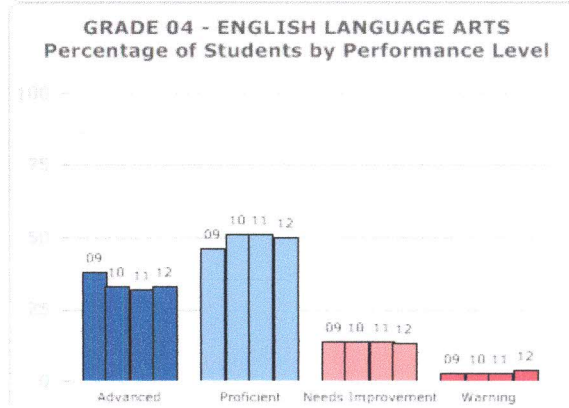
**GRADE 05 - SCIENCE AND TECH/ENG  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	44	42	40	49
PROFICIENT	34	39	42	33
NEEDS IMPROVEMENT	19	17	16	14
WARNING	3	2	2	4



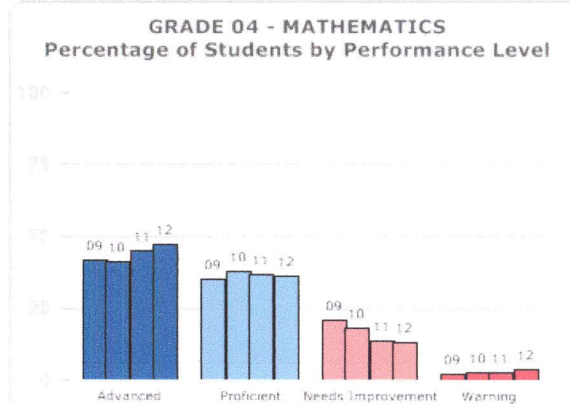
**GRADE 04 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	38	33	32	33
PROFICIENT	46	51	51	50
NEEDS IMPROVEMENT	14	14	14	13
WARNING	3	3	3	4



**GRADE 04 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

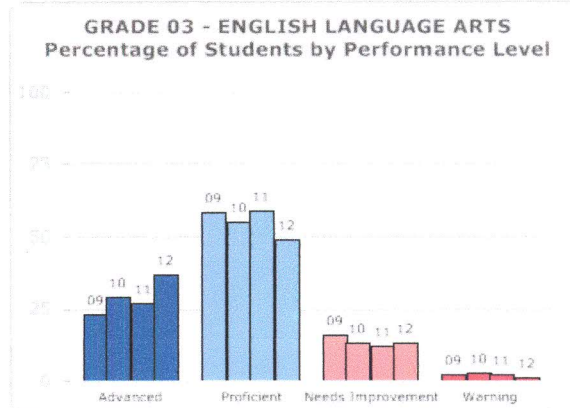
ADVANCED	42	41	45	47
PROFICIENT	35	38	37	36
NEEDS IMPROVEMENT	21	18	14	13
WARNING	2	3	3	4



**ATTACHMENT B (continued)**

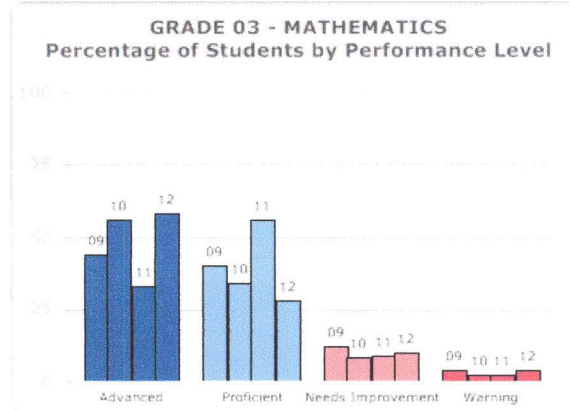
**GRADE 03 - ENGLISH LANGUAGE ARTS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	23	29	27	37
PROFICIENT	58	55	59	49
NEEDS IMPROVEMENT	16	13	12	13
WARNING	2	3	2	1



**GRADE 03 - MATHEMATICS  
PERFORMANCE 2009201020112012  
LEVEL**

ADVANCED	44	56	33	58
PROFICIENT	40	34	56	28
NEEDS IMPROVEMENT	12	8	9	10
WARNING	4	2	2	4





**ATTACHMENT C**

Massachusetts Department of  
Elementary & Secondary Education

[ Print Now | Close Window ]

District/School Administration > Administration >

**The Massachusetts Board of Elementary and Secondary Education**

**Letter to Educators Explaining the Growth Model**

September 10, 2010

Dear Massachusetts Educator,

For the first time, the Department of Elementary and Secondary Education is publishing MCAS growth data on the Parent/Guardian Reports for students in grades 4 through 8 and 10. I want to take this opportunity to explain the MCAS growth model and what it can tell you about student progress in English language arts and mathematics.

For over a decade, MCAS scaled scores and performance levels have answered the question, "How much has this student achieved compared to the state's grade-level learning standards?" The new growth score, called a **Student Growth Percentile (SGP)**, answers the question, "How much did a student grow over the previous year compared to his or her *academic peers*?"

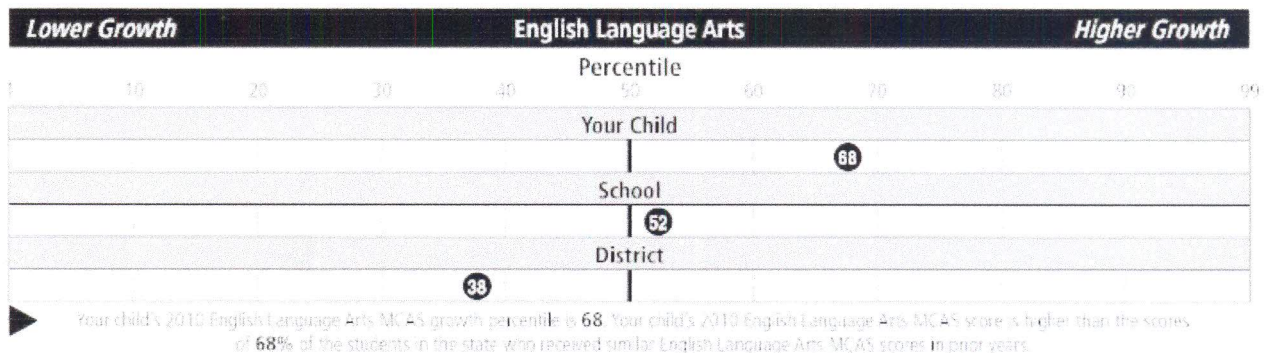
SGPs are percentiles (ranging from 1 to 99) calculated by comparing one student's history of MCAS scores to the scores of all the other students in the state with a similar history of MCAS scores. We refer to this group of all other students with similar score histories as a student's *academic peers*. In simple terms, students earning high growth percentiles answered more questions correctly on the spring 2010 MCAS test than their academic peers; conversely, students earning low growth percentiles answered fewer questions correctly than their academic peers.

Similar to MCAS scaled scores, SGPs require some interpretation. The following chart provides a way to think about student performance from both an "achievement" perspective and a "growth" perspective.

Scaled Score Range	Performance Level
200 - 218	Warning/Failing
220 - 238	Needs Improvement
240 - 258	Proficient
260 - 280	Advanced/Above Proficient

SGP Range	Description
1 - 39	Lower Growth
40 - 60	Moderate Growth
61 - 99	Higher Growth

An example of a display of a student's SGP in English language arts included in the spring 2010 MCAS Parent/Guardian Report is shown below. The display also provides the school and district median SGPs for comparison.



**ATTACHMENT C (continued)**

The addition of student growth data to complement student achievement data gives educators and parents a more complete picture of how each student performed in the past academic year. For example, if students with a history of poor MCAS scores make above-average progress, they still may not be *Proficient* at the end of the year, but they will have a high growth score. Likewise, if students with a history of very high MCAS scores do not progress as far as their academic peers, they may still be *Proficient or Advanced*, but they will have a low growth score.

Massachusetts, along with several other states, decided to use this student growth percentile model because, compared to many other growth models, this model provides a fair way to evaluate the progress of students. Every student, regardless of his or her level of achievement at the beginning of the school year, has the same opportunity to grow at the highest or lowest rates.

The release of student growth scores is tied to a statewide effort to develop longitudinal data systems that will ultimately provide every educator with the opportunity to directly analyze student performance patterns. With this opportunity comes a responsibility to use the data appropriately to inform and promote effective teaching and learning. Our hope and expectation is that educators, parents, and others involved in the education of a student will use this data to discover and learn from what worked well, and what may not have worked so well, by reflecting on student growth trajectories and the possible factors that may be contributing to them.

Sincerely,

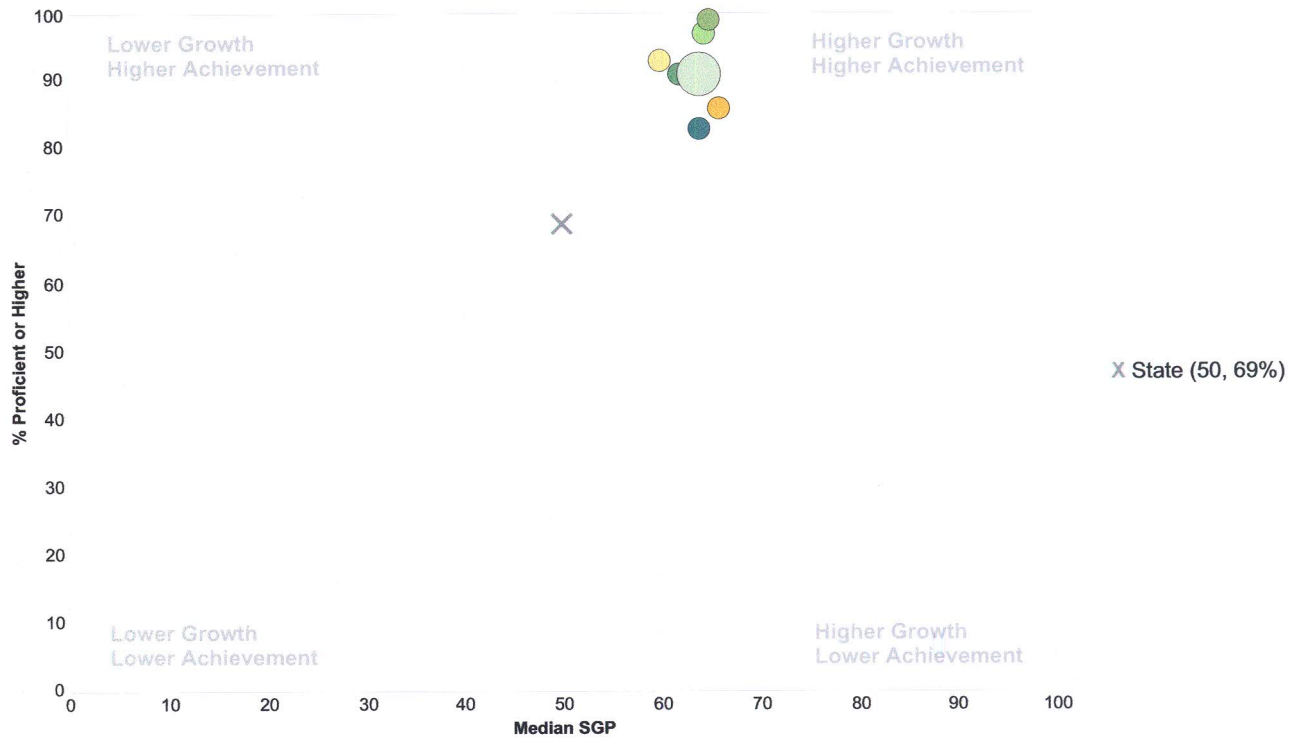
Mitchell D. Chester, Ed.D.  
Commissioner of Elementary and Secondary Education

ATTACHMENT D



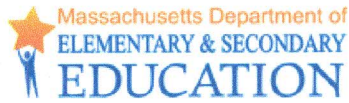
Spring 2012 MCAS District Achievement and Growth  
English Language Arts  
by Grade

District: Lexington  
Grade: All Grades



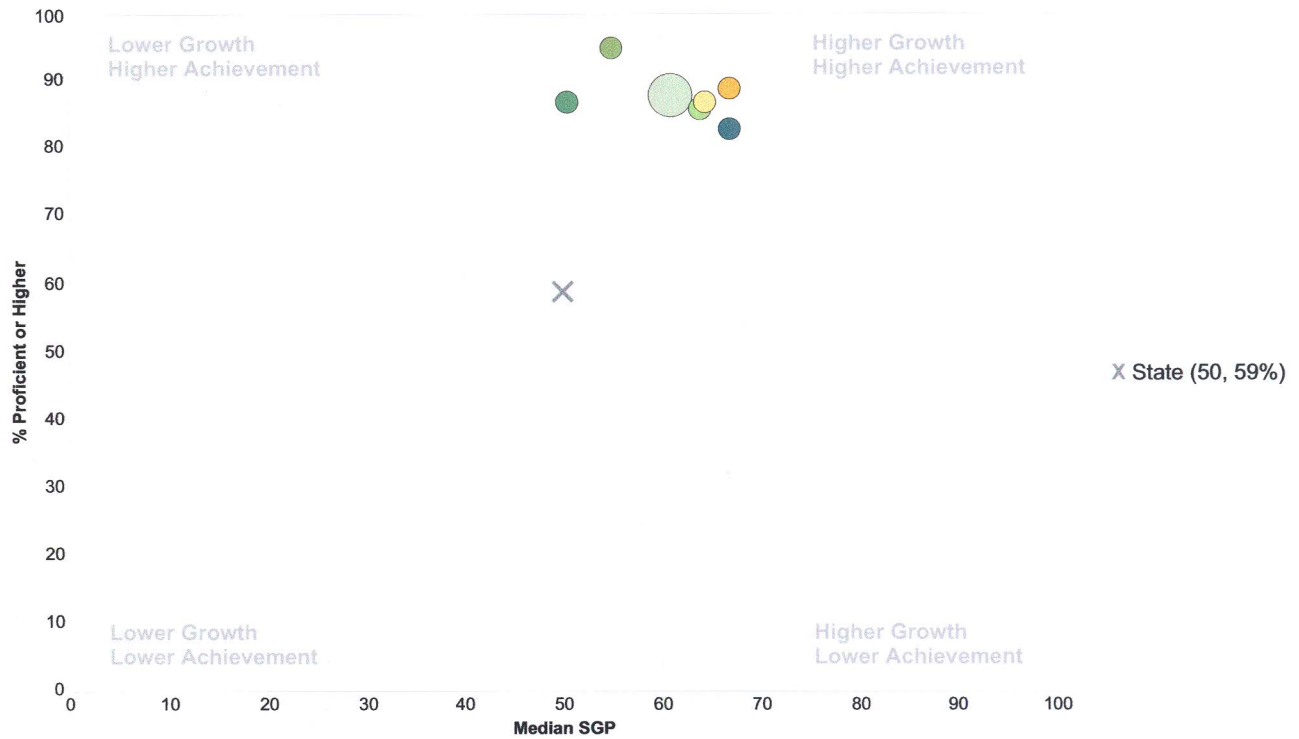
	Median SGP	N Students (SGP)	% Proficient or Higher	N Students (Perf. Level)
All Grades	64	2,833	91	3,547
Grade 04	64	442	83	490
Grade 05	66	463	86	498
Grade 06	62	499	91	548
Grade 07	60	480	93	513
Grade 08	64.5	510	97	547
Grade 10	65	439	99	484

Median student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20.



Spring 2012 MCAS District Achievement and Growth  
Mathematics  
by Grade

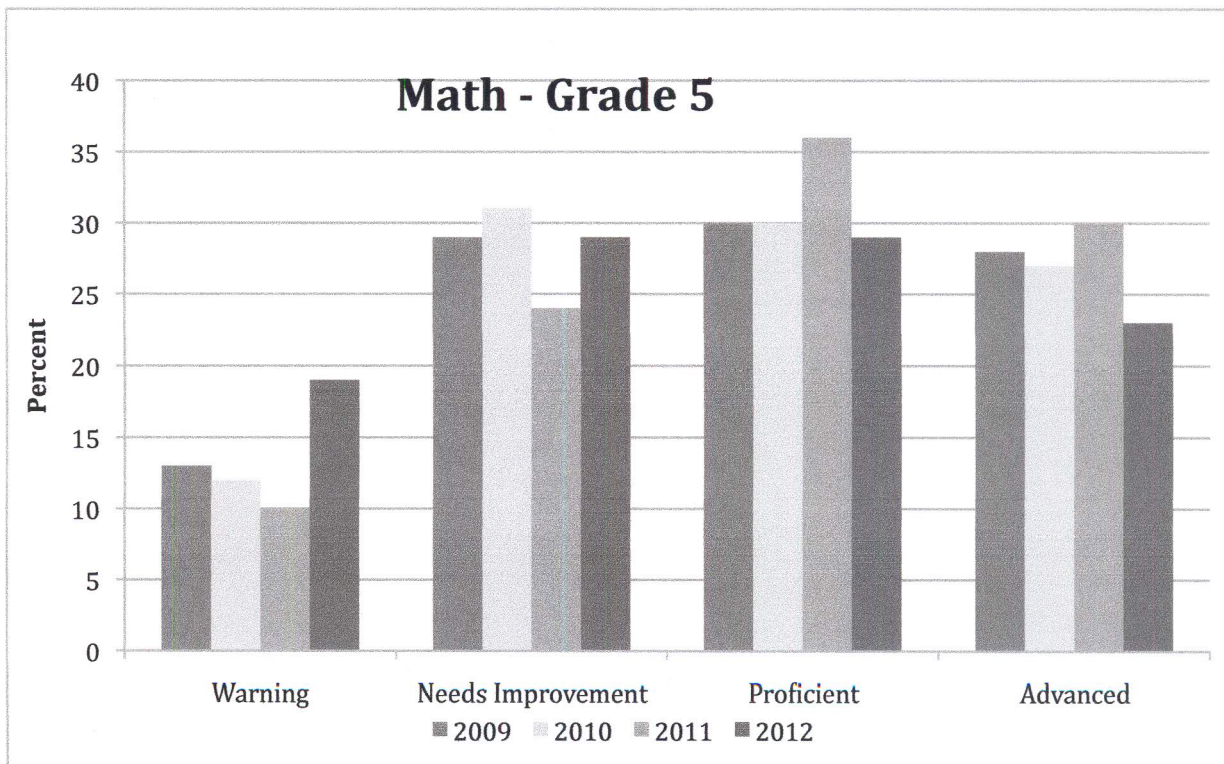
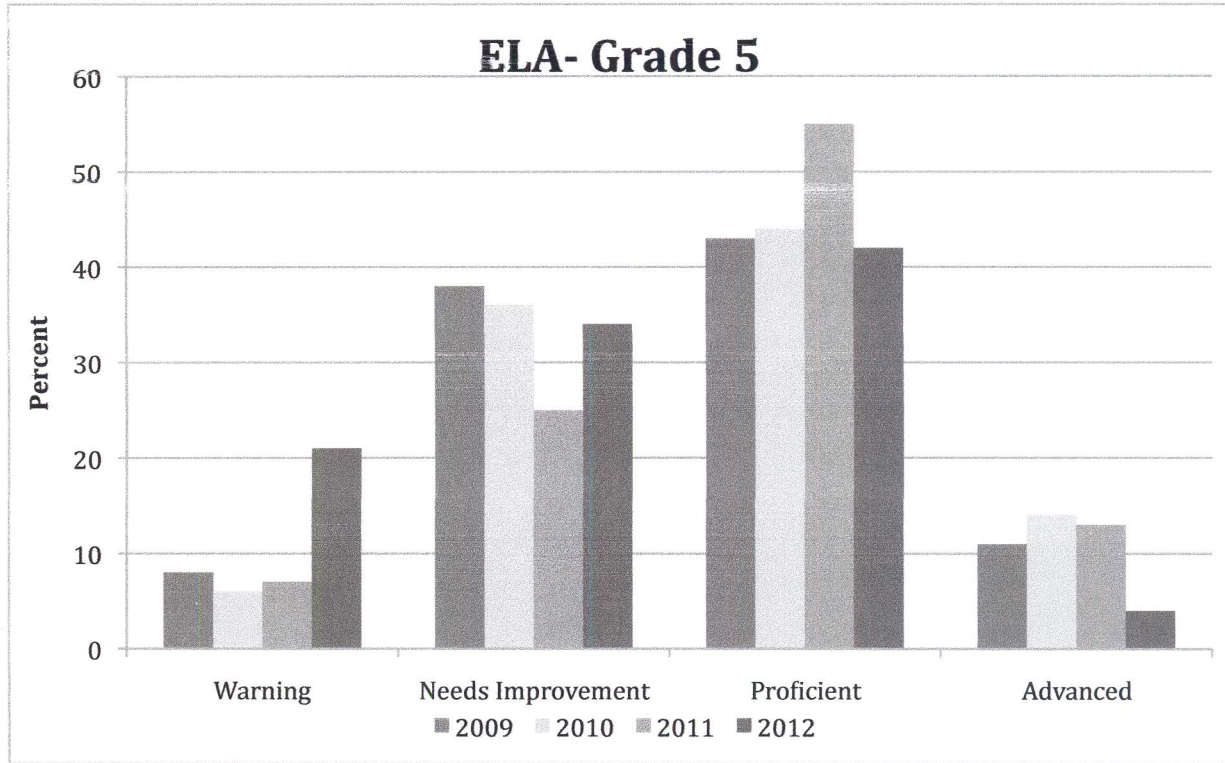
District: Lexington  
Grade: All Grades



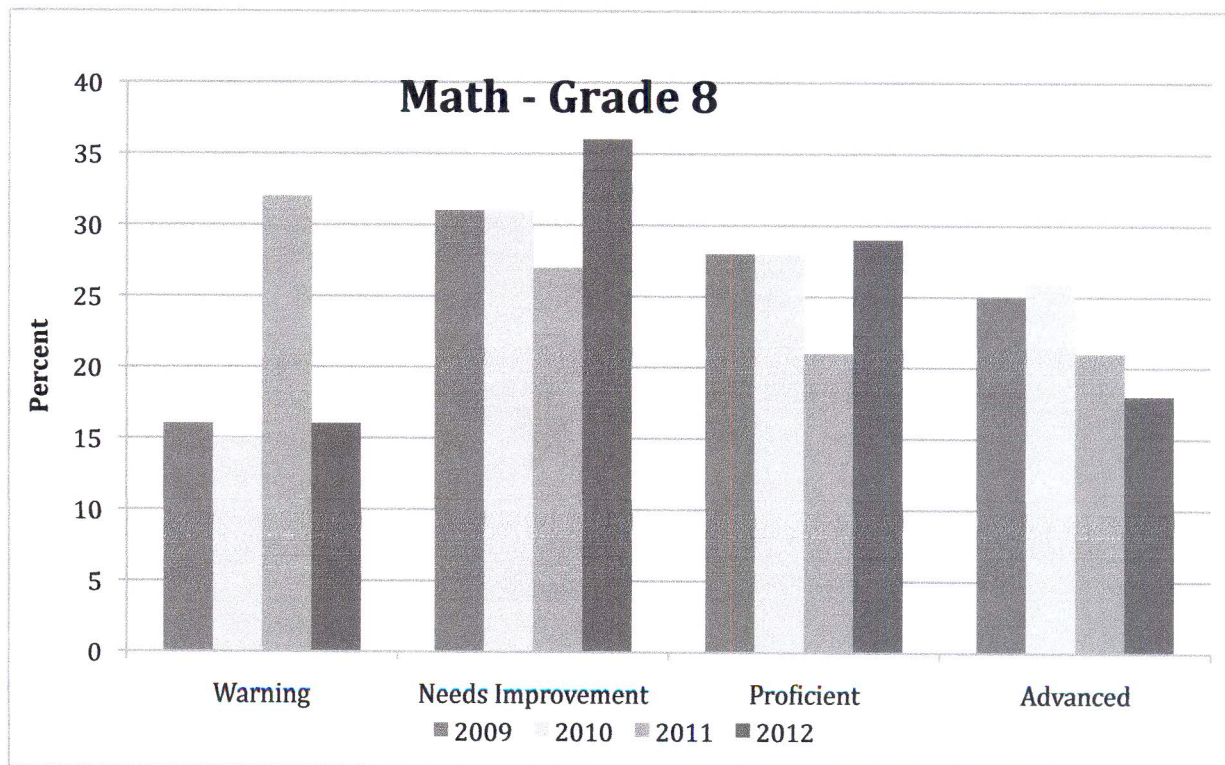
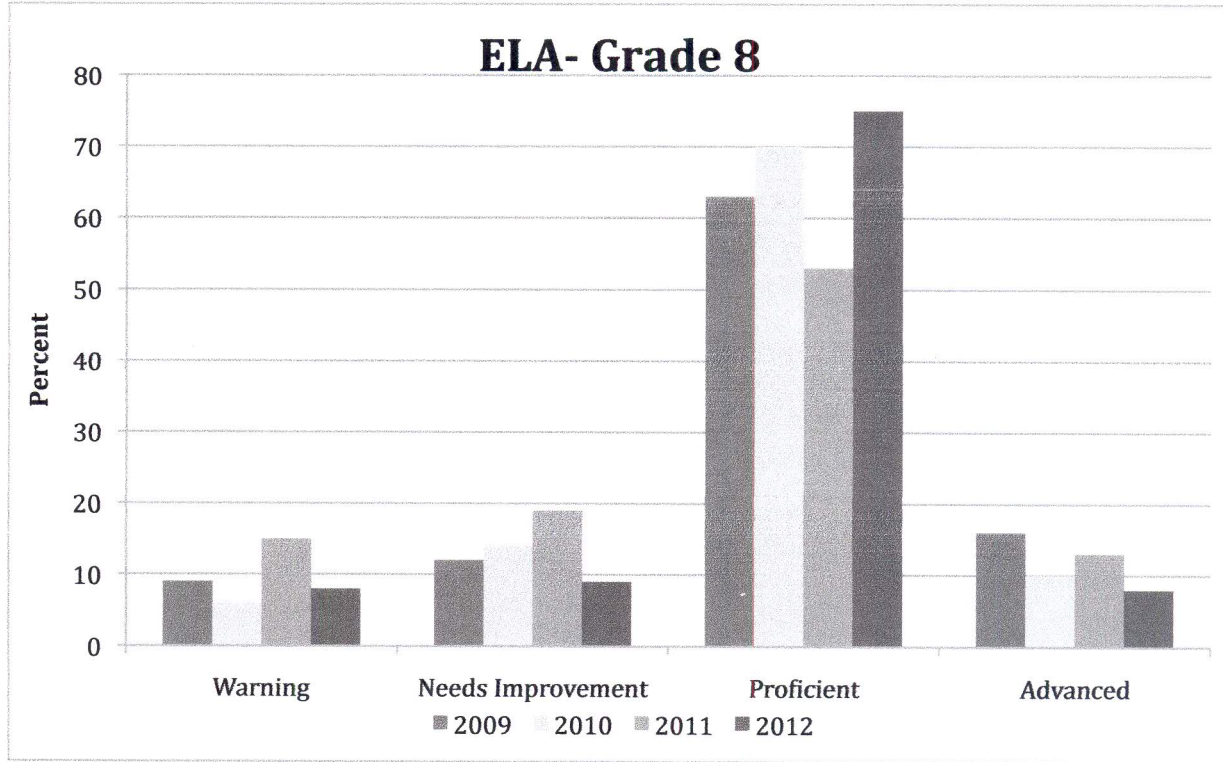
	Median SGP	N Students (SGP)	% Proficient or Higher	N Students (Perf. Level)
All Grades	61	2,826	88	3,556
Grade 04	67	441	83	490
Grade 05	67	465	89	500
Grade 06	50.5	498	87	550
Grade 07	64.5	466	87	515
Grade 08	64	513	86	546
Grade 10	55	443	95	486

Median student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20.

**Attachment E**  
**Students With Disabilities**  
**Grade 5**



***Attachment E (continued)***  
**Students With Disabilities**  
**Grade 8**



***Attachment E (continued)***  
**Students With Disabilities**  
**Grade 10**

