

# 2009 CAPT Scores Data Analysis



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**Published July 2009**



## What is CAPT?

The Connecticut Academic Performance Test (CAPT) began in the mid-90's and is now in its third generation of development by Measurement Incorporated. Each March, in approximately 27 hours of testing, all of Connecticut's 10th Graders read, compute, and write short-answers and essays in four content areas: Math, Reading, Writing, and Science. If students score in the top two bands, they are "At Goal or Above" and receive a sticker for their high school transcripts. If they score in the third band, they are considered "Proficient" and have met both Canton's graduation requirements and NCLB expectations, *but* they do not receive the CAPT performance stickers from the State. Students scoring in the bottom two bands have not yet met Canton's CAPT graduation requirements.

# Canton's March 2009 CAPT Scores as Reported by the Connecticut State Department of Education

	Math			Reading			Writing			Science		
	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV
<b>2009 Grade 10 CANTON</b>	84	98	42	75	93	46	82	98	50	71	93	37
<b>Increase</b>	+36	+20	+22	+27	+11	+25	+27	+11	+25	+28	+15	+16
<b>2009 Grade 10 STATE</b>	48	78	20	48	82	21	55	87	25	43	78	21

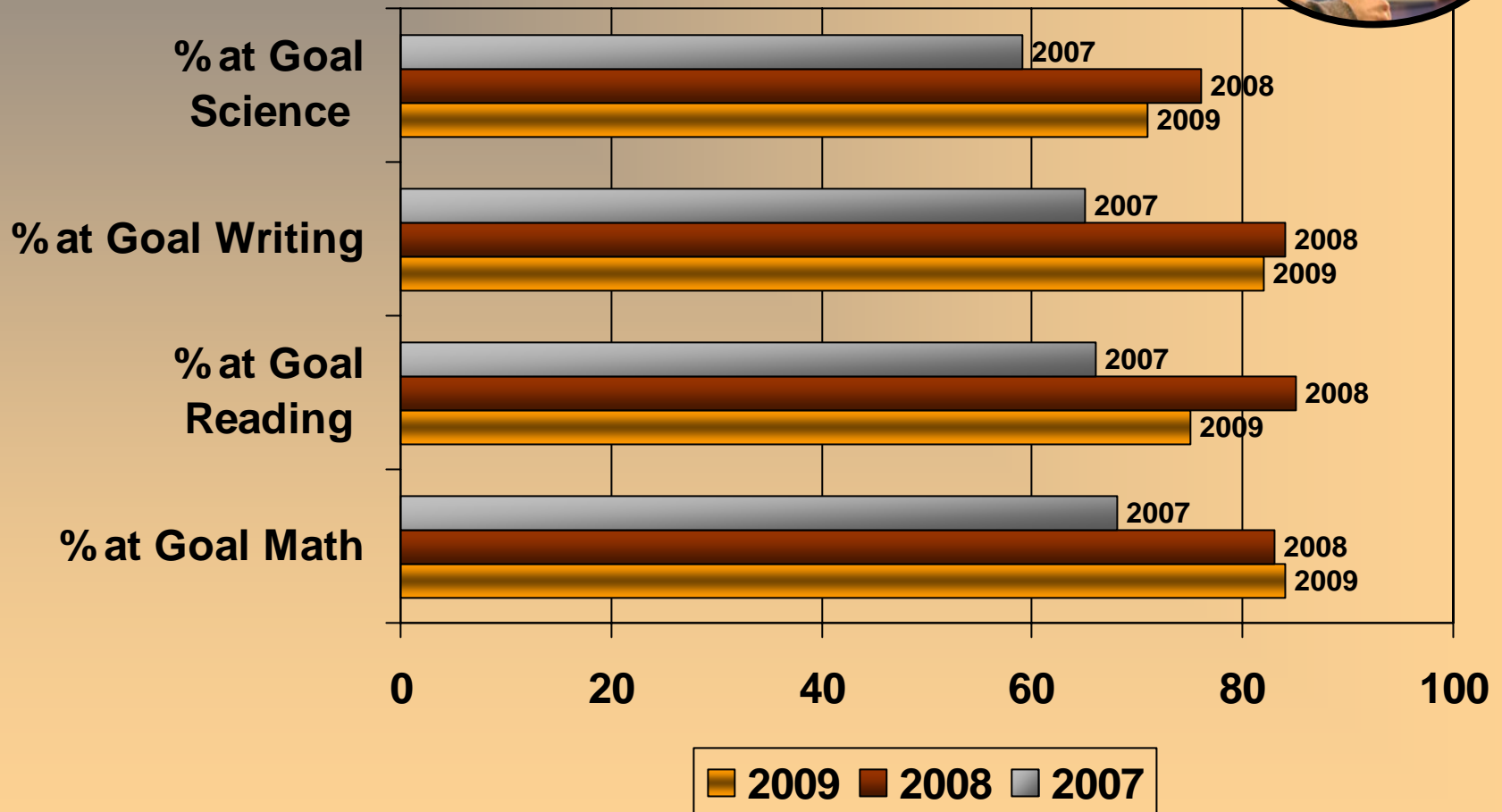
In every subject and in every scoring band, Canton's students exceeded the State average. To read the Hartford Courant's front page report, [click here](#).

# Generation 4 CAPT results, 2007 - 2009

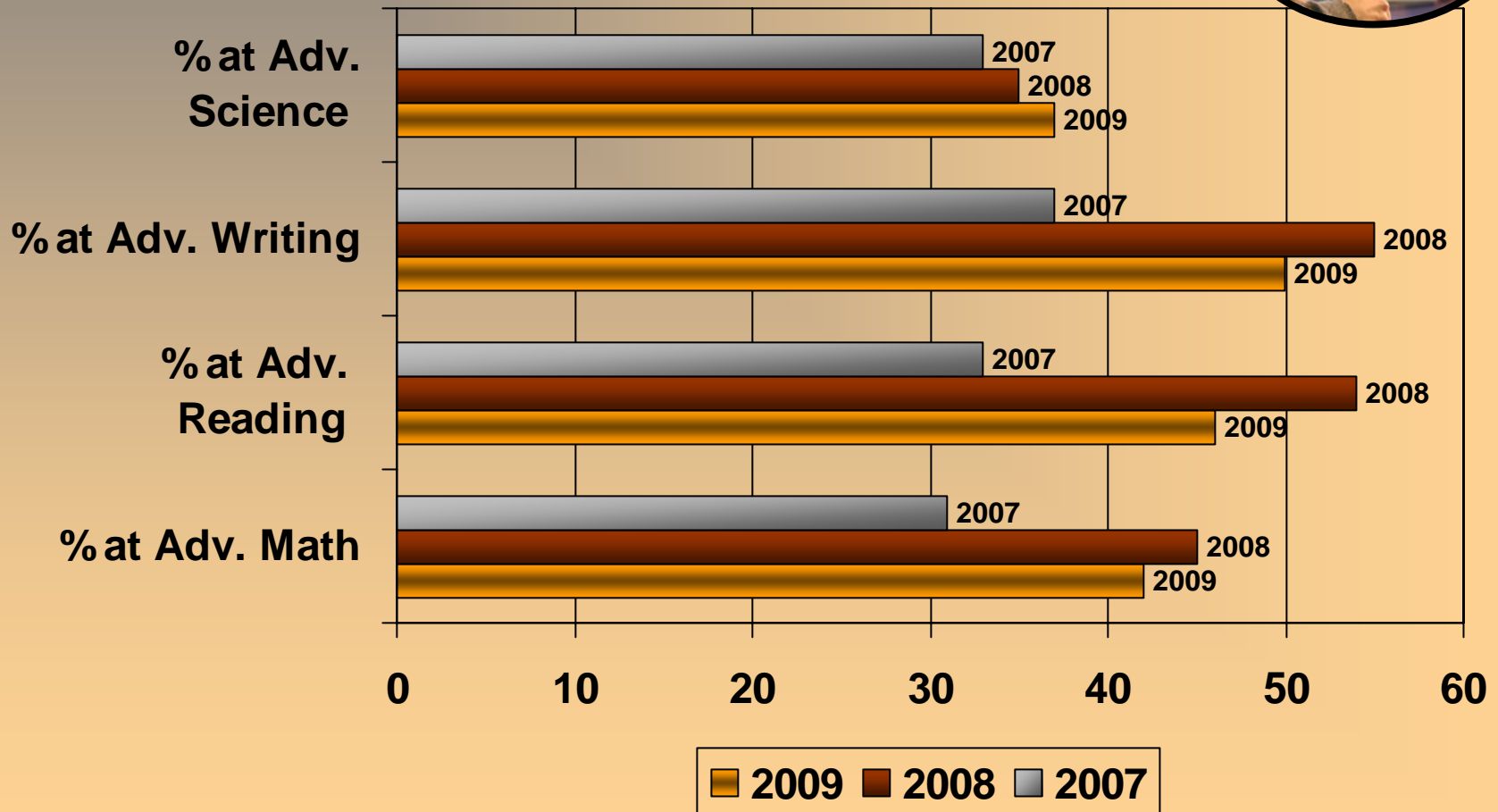
	Math			Reading			Writing			Science		
	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV	% GOAL	% PROF	% ADV
<b>2009</b>	<b>84</b>	<b>98</b>	<b>42</b>	<b>75</b>	<b>93</b>	<b>46</b>	<b>82</b>	<b>98</b>	<b>50</b>	<b>71</b>	<b>93</b>	<b>37</b>
2008	83	96	45	86	99	54	84	97	55	76	96	36
2007	68	88	31	66	88	33	65	85	38	59	91	34

Canton's students scores are up from 2007, but down from last year (March 2008) Other districts experienced a similar decline. See the comparisons on slide 12.

# CAPT Scores at Goal 2007 - 2009



# CAPT Scores at Advanced 2007 - 2009





**Overall, while CAPT scores are still up from 2007, they are down from last year's glowing results! In other words, this year's scores fall *between* the low scores of 2007 and the high scores of 2008.**

## **In Math**

- Last year, students made a huge jump from 68% at goal (2007) to 83% at goal (2008). This year (2009), 84% made goal, a slight increase in the results.
- In 2007, 6% scored below basic and 31% scored in advanced. In 2009, 0% scored below basic and 42% scored in advanced.
- 98% of the students scored proficient, the standard needed for graduation, another slight increase.

## **In Science**

- More students scored in the Advanced band: 37%. This is up from 36% last year and 34% in 2007.

**In both Math and Science, Canton's students outscored their peers from our contiguous districts. (See slides 11, 12, and 13.)**



**In all other areas, scores are down, but still strong.**

## ► In Reading

- Last year, students made a significant jump from 66% at goal (2007) to 86% at goal (2008). This year (2009), 75% made goal, a decrease of 11 points or about  $\frac{1}{2}$  of what they had gained the previous year.
- In 2007, 9% scored below basic and 33% scored in advanced. In both 2008 and 2009, less than 1% scored below basic.
- Advanced band scores were 33% in 2007, 54% last year, and 46% this year, which is still a great score but down from the previous year's success.
- 93% of the students scored proficient, the standard needed for graduation, a decrease from 99% in 2008.



## ► In Writing

- Last year, students made a large jump from 65% at goal (2007) to 84% at goal (2008). This year (2009), 82% made goal, a slight decrease, but still an excellent score, 3<sup>rd</sup> among the contiguous towns.
- Advanced band scores were 33% in 2007, 55% last year, and 50% this March, down from the previous year's success, but still an excellent achievement.
- For the second year, 98% of the students scored proficient, the standard needed for graduation.

**In both Reading and Writing, Canton's scores were either better than or within 3 points of the scores in our contiguous districts.**

# Statewide Results

	Mathematics		Reading		Writing		Science	
	% Prof.	% Goal	% Prof.	% Goal	% Prof.	% Goal	% Prof.	% Goal
<b>State 2008</b>	79	50	83	46	88	58	81	47
<b>State 2009</b>	78	48	82	48	87	55	78	43
State Increase / Decrease	-1	-2	-1	+2	-1	-3	-3	-4
<b>CANTON 2008</b>	96	83	99	86	98	84	96	76
<b>CANTON 2009</b>	98	84	93	75	98	82	93	71
CANTON Increase / Decrease	+2	+1	-6	-11	--	-2	-3	-5

# Contiguous Towns Comparison – Goal & Advanced

## Achievements

Canton's students did very well when compared to students from our neighboring districts; Math and Writing scores at Goal were particularly high.

Among the contiguous districts, Canton was:

- 1<sup>st</sup> in Math at goal or above
- 4<sup>th</sup> in Reading at goal or above
- 3<sup>rd</sup> in Writing at goal or above
- 2<sup>nd</sup> in Science at goal or above

Among the contiguous districts, Canton was:

- 2<sup>nd</sup> in Math at Advanced
- 2<sup>nd</sup> in Reading at Advanced
- 3<sup>rd</sup> in Writing at Advanced
- 6<sup>th</sup> in Science at Advanced



# Contiguous Towns Comparison – Goal & Advanced

Gold = higher than Canton

Blue = equal/lower than Canton

	Math		Reading		Writing		Science	
	% Goal	% ADV	% Goal	% ADV	% Goal	% ADV	% Goal	% ADV
State	48	20	48	21	55	25	43	21
Avon	75	39	74	41	78	40	70	39
<b>Canton</b>	<b>84</b>	<b>42</b>	<b>75</b>	<b>46</b>	<b>82</b>	<b>50</b>	<b>71</b>	<b>37</b>
East Granby	65	39	57	30	76	36	52	29
Farmington	78	45	77	45	84	54	67	39
Granby	80	38	73	42	80	39	74	49
Simsbury	79	42	77	47	85	54	69	38
Region 7*	68	26	67	33	70	32	58	23
Region 10*	73	30	77	41	70	43	68	38

\* Region 10 is Lewis Mills High School. Region 7 is Northwest Regional High School

# DRG C Comparison – Goal & Advanced

## Achievements

Canton's students did very well when compared to other DRG C students.

Among the DRG C districts, Canton was:

- 1<sup>st</sup> in Math at goal or above
- 4<sup>th</sup> in Reading at goal or above
- 2<sup>nd</sup> in Writing at goal or above
- 1<sup>st</sup> in Science at goal or above

Among the DRG C districts, Canton was:

- 1<sup>st</sup> in Math at Advanced
- 3<sup>rd</sup> in Reading at Advanced
- 1<sup>st</sup> in Writing at Advanced
- 4<sup>th</sup> in Science at Advanced



# DRG C Comparison

Group	Year	Mathematics		Science		Reading Across the Disciplines		Writing Across the Disciplines	
		Total Mathematics		Total Science		Total Reading		Total Writing	
		% At/Above Goal	% At/Above Proficiency	% At/Above Goal	% At/Above Proficiency	% At/Above Goal	% At/Above Proficiency	% At/Above Goal	% At/Above Proficiency
State	2009	48.0	78.4	43.0	78.4	47.5	81.8	55.1	86.5
Bolton	2009	69.4	94.4	63.0	94.5	69.4	97.2	82.2	98.6
Canton	2009	82.8	97.5	71.2	92.8	74.6	92.6	81.6	97.6
Ellington	2009	65.6	92.3	62.3	91.3	76.4	96.2	73.4	95.7
Oxford	2009	55.3	91.4	50.3	94.8	59.9	90.1	67.5	95.5
Somers	2009	71.2	95.2	68.0	95.2	62.6	91.8	75.5	93.9
Suffield	2009	71.8	93.9	61.8	94.3	64.3	94.4	75.1	95.3
Tolland	2009	68.1	94.8	63.0	96.6	50.4	92.1	65.5	91.1
Region 4	2009	60.5	87.3	58.3	91.4	66.0	91.7	65.6	93.3
Region 10	2009	73.5	95.0	67.6	94.1	77.2	96.7	70.3	97.3
Region 12	2009	65.1	94.2	62.8	91.9	62.9	93.3	73.9	93.2
Region 17	2009	61.1	91.0	58.4	93.6	53.9	93.4	74.9	95.3
Region 18	2009	66.4	95.1	68.3	93.7	78.7	96.7	75.4	94.4

## 9-Year Trend; 2001 - 2009



- ▶ In every content area, the 2009 CAPT scores are higher than the average scores for the past nine years.
  - Math 9-year average = 73; 2009 = 84
  - Reading 9-year average = 72; 2009 = 75
  - Writing 9-year average = 75; 2009 = 82
  - Science 9-year average = 66; 2009 = 71
  
- ▶ In Math, the improvement has been steadily upward for 9 years, from 58% at goal in 2001 to 84% at goal in 2009, an increase of 26 points.
  
- ▶ Over the past 9 years, both Reading and Writing have improved by 12 points. Science has improved by 7 points.

# Historical Data: CAPT Scores Since 2001



	2009	2008	2007	2006	2005	2004	2003	2002	2001
Math	84	83	68	72	79	70	68	77	58
Reading	75	86	66	73	84	68	73	64	63
Writing	82	84	65	69	87	75	73	72	70
Science	71	76	59	55	72	67	67	67	64

## Growth over Time: Class of 2011 CMT-to-CAPT

	Mathematics		Reading		Writing	
	8 <sup>th</sup> grade CMT	10 <sup>th</sup> grade CAPT	8 <sup>th</sup> grade CMT	10 <sup>th</sup> grade CAPT	8 <sup>th</sup> grade CMT	10 <sup>th</sup> grade CAPT
<b>Class of 2011</b>	<b>88 / 96</b> Goal/Prof	<b>84 / 98</b> Goal/Prof	<b>84 / 92</b> Goal/Prof	<b>75 / 93</b> Goal/Prof	<b>84 / 96</b> Goal/Prof	<b>82 / 98</b> Goal/Prof
<b>Decrease / Increase/</b>	<b>-4 Goal / +2 Prof</b>		<b>-9 Goal / +1 Prof</b>		<b>-2 Goal / +2 Prof</b>	

It is not an equitable comparison, as the CAPT and CMT are very different tests; however, the Class of 2011's CAPT scores do show some improvements over their CMT in that a greater percentage of these students are meeting the NCLB benchmark for "At Proficient or Above" in all three academic areas common to both tests. The "At Goal or Above" scores are fluctuating year to year.

# Area of Concern: Gender Gap

- ▶ Canton has a small gender gap in achievement in Math and Science:
  - Males scored **3% higher** than females at Goal in Math, and **1% higher** at Goal in Science.
  - Males scored **7% higher** than females at Advanced in Math, and **9% higher** at Advanced in Science.
  
- ▶ Canton has a more significant gender gap in achievement in Reading and Writing:
  - Females scored **20% higher** than males at Goal in Reading, and **18% higher** at Goal in Writing.
  - Females scored **33% higher** than males at Advanced in Reading, and **27% higher** at Advanced in Writing.
  
- ▶ 2008's significant reductions to a 4% difference at Goal in Reading and 10% difference at Goal in Writing disappeared.

## CAPT Scores Comparison by Achievement Band

	Mathematics				Reading				Writing				Science			
	'09	'08	'07	'06	'09	'08	'07	'06	'09	'08	'07	'06	'09	'08	'07	'06
Advanced	42	48	31	33	46	54	33	31	50	55	37	38	37	36	34	20
Goal	42	38	37	39	29	31	34	42	32	30	28	31	34	40	25	35
Proficient	14	12	19	21	18	13	21	20	16	13	21	22	22	21	32	39
Basic	2	2	6	5	6	1	4	5	1	2	6	6	5	2	6	6
Below Basic	0	1	7	2	1	1	9	2	1	0	9	2	2	1	3	1

## **Additional observations:**

- ▶ The number of students scoring at “Basic” and “Below Basic” was low in Math and Reading, 4% and 5% respectively.
- ▶ The number of students scoring at “Basic” and “Below Basic” was 13% in Science and 14% in Reading.
- ▶ This means only an increased number of students will need a remedial course in order to meet the Canton High School graduation requirements. To graduate, students must have the “Proficient or above” rating or demonstrate the equivalency in a prescribed course.

## Next Steps

- ▶ Study the impact of the new Integrated Science courses on student achievement **in their subsequent Science courses** and on the March 2009 CAPT.
- ▶ Set goals for increasing the number of students scoring in the advanced band in each content area.
- ▶ Increase opportunities for *all students* to read relevant, level-appropriate, non-fiction materials in all classes.
- ▶ Undergo a local, research-based study of the male gender gap in Reading and Writing, particularly at the **Advanced level**.