



CURRICULUM AND INSTRUCTION BUDGET REQUESTS

Report to School Committee

February 5, 2014

What Works in Schools (2003)

Top school level factor impacting student achievement:

“A Guaranteed and Viable Curriculum”

- Intended Curriculum (planned)
- Implemented Curriculum (taught)
- Assessed Curriculum (learned)



John Hattie 2007

The most powerful single influence enhancing achievement is feedback...What is needed is quality feedback and where that feedback has the greatest effect is when teachers receive more and better feedback about their teaching. (Hattie and Timperley, 2007)

John Hattie – Effect Size

- Feedback: 1.13
- Instructional Quality: 1.0
- Microteaching: .88
- Teacher Clarity: .75
- Professional Development: .62

Class Size Dilemma

- Class size: .21
- One reason for these small effect sizes relates to teachers of smaller classes using the same teaching methods as they were using with larger classes and thus not optimizing the opportunities provided by having fewer students. Many of the more powerful influences on student learning described in this book could be more effective if the class size was smaller.

District Comparisons

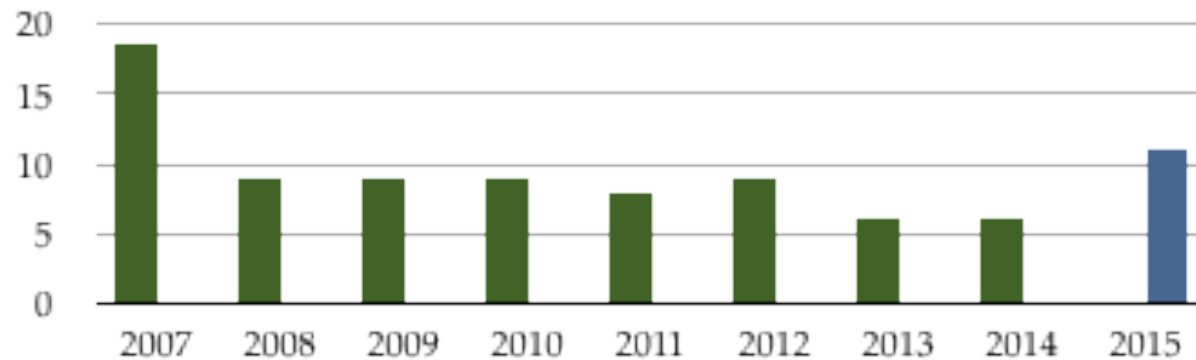
Comparable Districts Overview


*Districts most similar to your district in terms of grades span, total enrollment, and special populations.

Orange-Shaded row: Your district Blue-Shaded row: Highest performing of the other 10 districts in 2012 and 2013.

District Name	2012-13 October Enrollment				2013 MCAS % Proficient or Higher			2013 MCAS Growth Median SGP	
	Total Enrollment #	Low Income %	SWD %	ELL %	ELA %	Math %	Science %	ELA %	Math %
Arlington*	4,903	11.3	14.3	5.0	86%	77%	78%	56.0	54.0
Bridgewater-Raynham*	5,441	18.7	14.6	1.4	76%	66%	59%	51.0	57.0
Canton*	3,262	14.7	13.9	1.4	83%	72%	72%	54.0	47.0
Chelmsford*	5,138	9.8	15.2	2.1	83%	75%	65%	56.0	60.0
Melrose*	3,679	16.3	16.1	2.2	79%	68%	58%	55.0	53.0
Milton*	3,934	15.1	14.5	1.5	82%	77%	64%	56.0	55.0
Natick*	5,065	8.9	14.4	1.5	84%	78%	73%	51.0	54.0
North Andover*	4,766	13.9	14.1	1.5	80%	73%	61%	56.5	56.0
North Attleborough*	4,687	16.6	15.0	1.5	80%	71%	68%	50.0	53.0
Shrewsbury*	6,009	15.1	14.5	2.3	88%	82%	74%	54.0	51.0
Walpole*	4,015	14.6	15.0	2.3	81%	71%	72%	52.0	52.0

PreK–8 Curriculum and Instruction Positions



70% of capacity has been lost
19 positions (2007)  6 (2014)

Funding for Curriculum and Instruction

- **3 Additional Instructional Coach/Curriculum positions:
\$240,000**
- **2 Middle Level Curriculum Coordinator positions:
\$184,000**
- **Total Cost: \$424,000**



Shrewsbury Public Schools



K-8 MATH REQUEST

Timeline

- 2011 new Massachusetts math frameworks adopted
- 2013 (Spring): Students are tested on new standards
- 2013 (Summer): “Early Adopter” teachers in grades K-8 attend 1 week training on new standards
- 2013 (Fall): Begin to implement new standards, significant misalignment with existing core materials

Timeline, cont.

- 2013 (Fall): Review of literature studies and district studies of core materials that aligned with new standards
- 2013 (Fall): Early adopter teachers, coaches, and administrators review 4 of the most highly rated programs – Math in Focus(K-5) and CMP3 (6-8) are selected
- 2013 (October – Present): Early adopter teachers trained in materials and instructional strategies for new standards
- 2014 (Spring): All K-8 math teachers trained in key shifts and new core instructional materials

Key Shifts in Math

- Focus (less rote memorization, deep conceptual knowledge and conceptual understanding)
- Coherence (systematic approach)
- Rigor (procedural and conceptual understanding)
 - <https://www.teachingchannel.org/videos/middle-school-math-teaching-tip>
- TIMSS – fewer skills greater depth
 - In US, learning same skills over and over without mastery

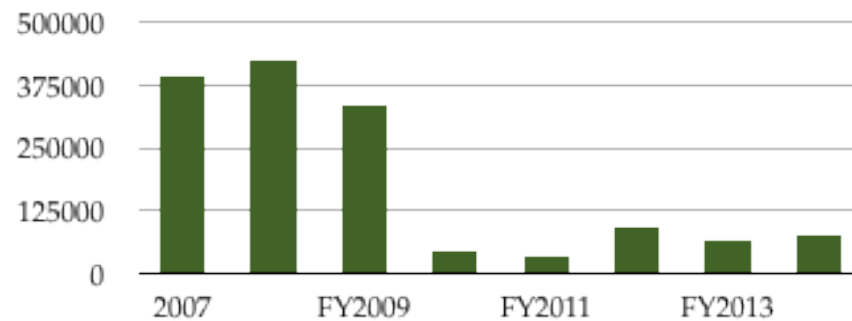
Funding for Math

- **Purchase of Core Math Materials K-5: \$500,000**
- **Purchase of Core Math Materials 5-8: \$182,000**
- **Professional Development K-8: \$40,000**
- **Total Cost: \$722,000**



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Backlog of Need Now Exists After 5 Consecutive Years of Underfunding



Shrewsbury Funding for Text Books and Instructional Materials



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QUESTIONS?
