

# Cambridge Public Schools

## FY2005-06 Budget

Superintendent's Proposed Budget

March 1, 2005

## Cambridge Public Schools - FY2005-06 Budget

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## Education at the Heart

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- Academic Rigor for All Students
- Closing the Achievement Gap
- Excellence of Instruction, Standards & Accountability (Benchmarks)
- School Improvement
  - Strategic Staffing
  - Funding for School Improvement Plans
- Lowest Realized Budget Increase in Decade
- Greater Efficiency
- Strategic Leadership Assets
- Focused Professional Development at all Levels

## FY2005-06 Budget - Overview

- Charter School Impact - loss of \$471,000
- FY05-06 budget - net increase 1.6% - \$1,990,000
- Proposed Budget Formula Increases in Allocations to Schools:

- Per Pupil Entitlements - increase from \$115/pupil to \$140/pupil -	\$153,000
- School Improvement Plan increased funding -	\$250,000
- Professional Development - increase from \$20/pupil to \$40/pupil -	\$122,380

- Review of Administrative/Operations staff to achieve greater efficiency - reduction of \$1.3 million
- RSTA increased instructional time & new Media Technology program

## FY2005-06 Budget - Overview

- Increased Stability in Elementary Schools

- Budgeted class size decrease of more than 1 student per classroom
- "Highly Qualified" teachers in Middle School classes regardless of size
- Straight grades in schools designed for straight grades

- Emphasis on Excellent Instruction and Closing the Achievement Gap

- Literacy Collaborative expanded to all schools
- Avid Program introduced to four elementary schools
- Extended Day programs in all schools

- Professional Development, including extended CRLS in-service

- Leadership Development

- Structural stability in Budget (Debt Stabilization)

## FY04-05 Budget - Summary of Proposed Budget

<b>FY 2004-05 Current Budget:</b>	<b>\$ 122,053,195</b>	
- Plus: Cost Increases	7,511,712	
- Less: Cost Decreases	(5,520,507)	
- Restructuring/Reorganization of Positions:	(2,227,000)	
- Program Initiatives & Improvements	<u>2,227,000</u>	
<b>Equals: Proposed Budget:</b>	<b>\$ 124,044,400</b>	
<b>Equals: City Manager's FY 06 Recommendation</b>		<b>\$ 124,044,400</b>
<b>Net Budget Increase:</b>		<b>\$ 1,991,205</b>
<b>Percentage Increase:</b>		<b>1.6%</b>

## FY05-06 Budget - Major Cost Increases Decreases

### A. Major Cost Increases

- Salary Increases: 4.25 % increase and step/degree/longevity increases	\$ 4,265,397
- Health Insurance increase of 11% and Pension 2.5%	1,487,312
- Special Education Tuition Costs (9% estimate)	773,527
- Transportation Cost Increases (5%) and Energy Costs (15%)	543,393
- Formula increases and all other	<u>442,083</u>
Total Cost Increases:	\$ 7,511,712

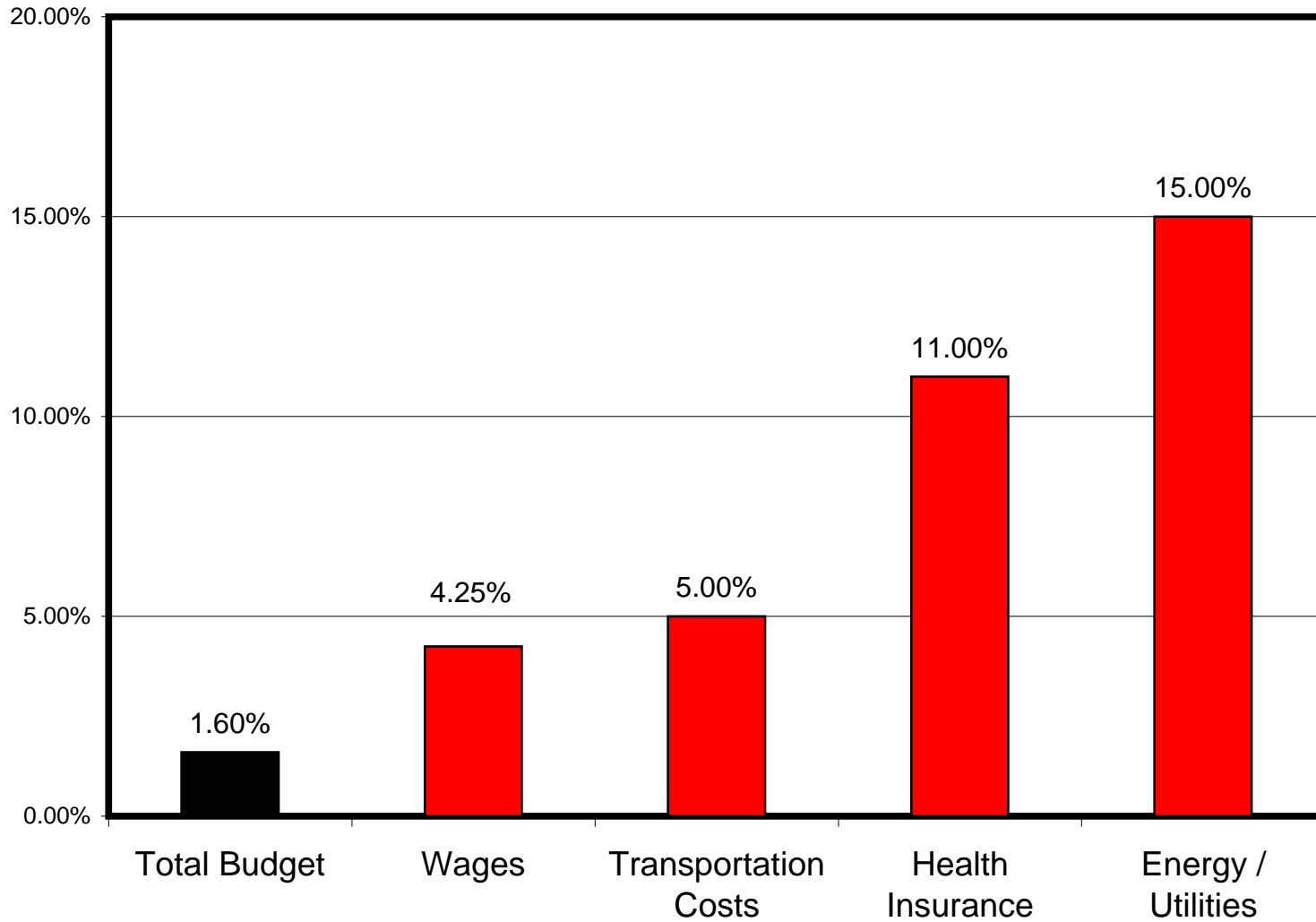
### B. Major Cost Decreases

- Reduced Debt Svc. Costs (Principal & Interest on Construction Projects)	\$ (1,518,536)
- Lower Tuition Expense for Minuteman Regional HS	(568,525)
- Reduction of Consolidation transition costs & other 1-time costs	(887,196)
- Special Education Tuition - 1-Time "Circuit-Breaker" reimb. Savings	<u>(2,546,250)</u>
Total Cost Decreases:	\$ (5,520,507)

## Multi-Year Budget Comparison - Cambridge Public Schools

<u>Year</u>	<u>Budget (in \$mil)</u>	<u>% Incr.</u>	<u>3-Year Avg Incr.</u>
1994-95	\$ 82.5	3.5%	
1995-96	85.4	3.5%	<i>avg. 2.9%</i>
1996-97	86.9	1.8%	
1997-98	90.2	3.8%	
1998-99	94.8	5.1%	<i>avg. 5.6%</i>
1999-00	102.2	7.8%	
2000-01	106.5	4.2%	
2001-02	113.0	6.1%	<i>avg. 4.5%</i>
2002-03	116.6	3.2%	
2003-04	117.9	1.1% <i>(effective 3.6% increase)</i>	
2004-05	122.1	3.6%	<i>avg. 2.1%</i>
2005-06 (Projected)	124.1	1.6%	

## FY05-06 Budget - Percentage Increase for Selected Items



FY05-06 Proposed Budget  
Elementary Staffing Charts

March 1, 2005

**Elementary School Staffing - Comparison of Year-to-Year Projections**

<u>AU</u>	<u>School</u>	<u>K-8</u> <u>Projection in FY04 for SY2004-05</u>			<u>K-8</u> <u>Projection in FY05 for SY2005-06</u>		
		<u>Enroll.</u>	<u># of</u> <u>Classrooms</u>	<u>Ratio</u>	<u>Enroll.*</u>	<u># of</u> <u>Classrooms</u>	<u>Ratio</u>
15	Amigos	296	16	18.5	307	17	18.1
10	Baldwin	381	19	20.1	385	19	20.3
28	Cambridgeport	324	16	20.3	303	16	18.9
24	Fletcher-Maynard	221	14	15.8	224	14	16.0
25	Graham & Parks	364	18	20.2	368	18	20.4
25	Graham & Parks SEI	49	3	16.3	46	3	15.3
13	Haggerty	237	11	21.5	219	12	18.3
27	Kennedy/Longellow	316	18	17.6	324	18	18.0
27	Kennedy/Longf ISP	85	4	21.3	105	5	21.0
17	King	216	11	19.6	180	12	15.0
17	King SEI	12	1	12.0	18	1	18.0
18	King Open	463	21	22.0	426	21	20.3
18	King Open Ola'	93	5	18.6	86	5.5	15.6
20	Morse	416	19	21.9	383	19	20.2
21	Peabody	506	24	21.1	440	22	20.0
23	Tobin	376	19	19.8	310	19	16.3
23	Tobin SEI	30	4	7.5	54	4	13.5
<b>Total Elementary</b>		<b>4385</b>	<b>223.0</b>	<b>19.7</b>	<b>4178</b>	<b>225.5</b>	<b>18.5</b>

*\* Enrollment is for grade K-8 classrooms only and does not include special education self-contained classrooms projected enrollment (98) nor Pre-K projected enrollment (55) - Rev 3/22/05*

**Elementary School Classrooms for FY2005-06**

**School: Amigos School**

**AU 15**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>
K	58	3	19.3	58	3	19.3
1	44	2	22.0	45	2	22.5
2	34	2	17.0	41	2	20.5
2/3						
3	32	2	16.0	33	2	16.5
4	39			30	2	15.0*
4/5		3	20.7			
5	23			34	2	17.0
6	25	1	25.0	21	1	21.0
<i>plus: 1 grade 6 teacher funded from temp funds (aide hrs).</i>						
7	23	2	11.5	23	2	11.5
8	19	1	19.0	22	1	22.0
<b>Total:</b>	<b>297</b>	<b>16</b>	<b>18.6</b>	<b>307</b>	<b>17</b>	<b>18.1</b>
<b>ACS Kdgt</b>	<b>58</b>	<b>3</b>	<b>19.3</b>	<b>58</b>	<b>3</b>	<b>19.3</b>
<b>ACS Gr. 1-8</b>	<b>239</b>	<b>13</b>	<b>18.4</b>	<b>249</b>	<b>14</b>	<b>17.8</b>

Gr 3/4 Sped class 5  
stdnts 2/3

**Elementary School Classrooms for FY2005-06**

**School: Baldwin School**

**AU 10**

<u>Grade</u>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<u>Enrollment</u> <u>1-Oct</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>	<u>Enrollment</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>
K	58	3	19.3	58	3	19.3
1	40	2	20.0	45	2	22.5
2	43	2	21.5	39	2	19.5
3	41	2	20.5	43	2	21.5
4	43	2	21.5	42	2	21.0
5	39	2	19.5	41	2	20.5
6	39	2	19.5	34	2	17.0
7	43	2	21.5	40	2	20.0
8	34	2	17.0	43	2	21.5
<b>Total:</b>	<b>380</b>	<b>19</b>	<b>20.0</b>	<b>385</b>	<b>19</b>	<b>20.3</b>
<b>ACS Kdgt</b>	<b>58</b>	<b>3</b>	<b>19.3</b>	<b>58</b>	<b>3</b>	<b>19.3</b>
<b>ACS Gr. 1-8</b>	<b>322</b>	<b>16</b>	<b>20.1</b>	<b>327</b>	<b>16</b>	<b>20.4</b>

Gr 7/8 Sped  
Behav Cl.  
9 Students

**Elementary School Classrooms for FY2005-06**

**School: Cambridgeport School**

**AU 28**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>
K	38	2	19.0	39	2	19.5
1	29			32		
1/2		3	20.3		3	20.7
2	32			30		
3	32			31		
3/4		3	21.0		3	21.0
4	31			32		
5	38	1	19.0	30	1	17.0
5/6		2	21.5		2	15.5*
6	41	1	20.0	35	1	17.0
7	35			39		
7/8		4	17.0		4	18.5
8	33			35		
<b>Total:</b>	<b>309</b>	<b>16</b>	<b>19.3</b>	<b>303</b>	<b>16</b>	<b>18.9</b>
<b>ACS Kdgt</b>	<b>38</b>	<b>2</b>	<b>19.0</b>	<b>39</b>	<b>2</b>	<b>19.5</b>
<b>ACS Gr. 1-8</b>	<b>271</b>	<b>14</b>	<b>19.4</b>	<b>264</b>	<b>14</b>	<b>18.9</b>

Gr 5/6 Sped 6  
stdts 3/5

**Elementary School Classrooms for FY2005-06**

**School: Fletcher-Maynard Academy**

**AU 24**

<b><u>Grade</u></b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b><u>Enrollment</u></b> <b><u>1-Oct</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>	<b><u>Enrollment</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>
K	44	3	14.7	46	3	15.3
1	27	2	13.5	33	2	16.5
2	30	1	22.0	25	1	25.0
2/3		1	18.0			
3	29	1	19.0	28	2	14.0
4	19	1	19.0	25	1	25.0
5	19	1	19.0	18	1	18.0
6	21	1	21.0	15	1	15.0
7	17	1	17.0	19	1	19.0
8	27	2	13.5	15	2	7.5
<b>Total:</b>	<b>233</b>	<b>14</b>	<b>16.6</b>	<b>224</b>	<b>14</b>	<b>16.0</b>
<b>ACS Kdgt</b>	<b>44</b>	<b>3</b>	<b>14.7</b>	<b>46</b>	<b>3</b>	<b>15.3</b>
<b>ACS Gr. 1-8</b>	<b>189</b>	<b>11</b>	<b>17.2</b>	<b>178</b>	<b>11</b>	<b>16.2</b>

**Elementary School Classrooms for FY2005-06**

**School: Graham & Parks School**

**AU 25**

<u>Grade</u>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>			
	<u>Enrollment</u> 1-Oct	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>	<u>Enrollment</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>	
K	57	3	19.0	58	3	19.3	
1	42			45			
1/2		4	20.8		4	21.0	Gr 1/2 Sped 2 stdts
2	41			39			
3	44	1	19.0	41	1	20.0	
3/4		2	22.5		2	22.0	Gr 3/4 Sped 5 stdts
4	35	1	15.0	44	1	21.0	
5	34	1	24.0	34	1	22.0	
5/6		1	21.0		1	21.0	
6	32	1	21.0	32	1	23.0	
7	37			35			
7/8		4	18.8		4	18.8	
8	38			40			
<b>Total:</b>	<b>360</b>	<b>18</b>	<b>20.0</b>	<b>368</b>	<b>18</b>	<b>20.4</b>	
<b>ACS Kdgt</b>	<b>57</b>	<b>3</b>	<b>19.0</b>	<b>58</b>	<b>3</b>	<b>19.3</b>	
<b>ACS Gr. 1-8</b>	<b>303</b>	<b>15</b>	<b>20.2</b>	<b>310</b>	<b>15</b>	<b>20.7</b>	

**Elementary School Classrooms for FY2005-06**

**School: Graham & Parks School - Sheltered English Immersion**

**AU 25**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b>Enrollment 1-Oct</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>
K	7			10		
1	5			5		
K-2		1	22.0		1	21.0
2	10			6		
3	8			7		
3-5		1	18.0		1	19.0
4	4			6		
5	6			6		
6	4			0		
7	0			4		
6-8		1	6.0		1	6.0
8	2			2		
<b>Total:</b>	<b>46</b>	<b>3</b>	<b>15.3</b>	<b>46</b>	<b>3</b>	<b>15.3</b>
<b>ACS Kdgt</b>						
<b>ACS Gr. 1-8</b>	<b>46</b>	<b>3</b>	<b>15.3</b>	<b>46</b>	<b>3</b>	<b>15.3</b>

**Elementary School Classrooms for FY2005-06**

**School: Haggerty School (K-6)**

**AU 13**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>			
	<b>Enrollment 1-Oct</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>	<b>Enrollment</b>	<b># of Classrooms</b>	<b>ACS by Grade</b>	
K	53	3	17.7	55	3	18.3	
1	34	2	17.0	35	2	17.5	K-1-2 sped classes - 11 4/6/1
1/2							
2	39	2	19.5	32	2	16.0*	
3	25	1	18.0	36	2	18.0	
3/4		1	18.0				
4	27	1	16.0	23	1	23.0	
5	19			24			
5/6		2	17.5		2	19.0	
6	15			14			
<b>Total:</b>	<b>212</b>	<b>12</b>	<b>17.7</b>	<b>219</b>	<b>12</b>	<b>18.3</b>	
<b>ACS Kdgt</b>	<b>53</b>	<b>3</b>	<b>17.7</b>	<b>55</b>	<b>3</b>	<b>18.3</b>	
<b>ACS Gr. 1-8</b>	<b>159</b>	<b>9</b>	<b>17.7</b>	<b>164</b>	<b>9</b>	<b>18.2</b>	

**Elementary School Classrooms for FY2005-06**

**School: Kennedy-Longfellow School**

**AU 27**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>			
	<b>Enrollment</b>	<b># of</b>	<b>ACS</b>	<b>Enroll.</b>	<b># of</b>	<b>ACS</b>	
	<b>1-Oct</b>	<b>Classrooms</b>	<b>by Grade</b>		<b>Classrooms</b>	<b>by Grade</b>	
K	57	3	19.0	58	3	19.3	
1	33	2	16.5	42	2	21.0	
2	36	2	18.0	37	2	18.5	
3	20	1	20.0	32	2	16.0*	
3/4							
4	44	2	22.0	21	1	21.0	
5	31	2	15.5	39	2	19.5	Gr 5/6 Sped 10 stdts 4/6
6	34	2	17.0	27	2	13.5	
7	34	2	17.0	35	2	17.5	Gr 7 Sped 12 stdts
8	39	2	19.5	33	2	16.5	Gr 8 Sped 10 stdts
<b>Total:</b>	<b>328</b>	<b>18</b>	<b>18.2</b>	<b>324</b>	<b>18</b>	<b>18.0</b>	
<b>ACS Kdgt</b>	<b>57</b>	<b>3</b>	<b>19.0</b>	<b>58</b>	<b>3</b>	<b>19.3</b>	
<b>ACS Gr. 1-8</b>	<b>271</b>	<b>15</b>	<b>18.1</b>	<b>266</b>	<b>15</b>	<b>17.7</b>	

**Elementary School Classrooms for FY2005-06**

**School: Kennedy-Longfellow School - ISP Program**

**AU 27**

<b><u>Grade</u></b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b><u>Enrollment</u></b> <b><u>1-Oct</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>	<b><u>Enrollment</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>
K						
1						
2						
3						
4						
5						
6	40	2	20.0	39	2	19.5
7	24	1	24.0	43	2	21.5
8	44	2	22.0	23	1	23.0
<b>Total:</b>	<b>108</b>	<b>5</b>	<b>21.6</b>	<b>105</b>	<b>5</b>	<b>21.0</b>
<b>ACS Kdgt</b>						
<b>ACS Gr. 1-8</b>	<b>108</b>	<b>5</b>	<b>21.6</b>	<b>105</b>	<b>5</b>	<b>21.0</b>

**Elementary School Classrooms for FY2005-06**

**School: King School - Standard Program**

**AU 17**

<u>Grade</u>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<u>Enrollment</u> <u>1-Oct</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>	<u>Enrollment</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>
K	35	2	17.5	35	2	17.5
1	18	1	18.0	30	1	18.0
1/2					1	17.0*
2	13	1	13.0	15	1	10.0
3	22	1	22.0	12	1	12.0
4	16	1	16.0	19	1	19.0
5	21	1	21.0	14	1	14.0
<i>plus: 1.0 Title I teacher assigned as Gr. 5 classroom tchr</i>						
6	24	2	12.0	16	1	16.0
7	17	1	17.0	23	2	11.5
8	13	1	13.0	16	1	16.0
<b>Total:</b>	<b>179</b>	<b>11</b>	<b>16.3</b>	<b>180</b>	<b>12</b>	<b>15.0</b>
<b>ACS Kdgt</b>	<b>35</b>	<b>2</b>	<b>17.5</b>	<b>35</b>	<b>2</b>	<b>17.5</b>
<b>ACS Gr. 1-8</b>	<b>144</b>	<b>9</b>	<b>16.0</b>	<b>145</b>	<b>10</b>	<b>14.5</b>

**Elementary School Classrooms for FY2005-06**

**School:** **King School - Sheltered English Immersion Program**      AU 17

<b><u>Grade</u></b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b><u>Enrollment</u></b> <b><u>1-Oct</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>	<b><u>Enrollment</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>
K	18	1	18.0	18	1	18
1						
2						
3						
4						
5						
6						
7						
8						
<b>Total:</b>	<b>18</b>	<b>1</b>	<b>18.0</b>	<b>18</b>	<b>1</b>	<b>18.0</b>
<b>ACS Kdgt</b>	<b>18</b>	<b>1</b>	<b>18.0</b>	<b>18</b>	<b>1</b>	<b>18.0</b>
<b>ACS Gr. 1-8</b>						

**Elementary School Classrooms for FY2005-06**

**School: King Open School**

**AU 18**

<b><u>Grade</u></b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b><u>Enrollment</u></b>	<b><u># of</u></b>	<b><u>ACS</u></b>	<b><u>Enrollment</u></b>	<b><u># of</u></b>	<b><u>ACS</u></b>
	<b><u>1-Oct</u></b>	<b><u>Classrooms</u></b>	<b><u>by Grade</u></b>			
K	71	4	17.8	73	4	18.3
1	42			52		
1/2		5	18.0		5	18.4
2	48			40		
3	48			44		
3/4		4	24.8		4	22.3
<i>FY0405 classrm position used for science support</i>		1			0	
4	51			45		
5	44			51		
5/6		4	20.8		4	22.0
<i>FY0405 classrm position used for literacy support</i>		1			0	
6	39			37		
7	44			41		
7/8		4	21.8		4	21.0
8	43			43		
<b>Total:</b>	<b>430</b>	<b>23</b>	<b>18.7</b>	<b>426</b>	<b>21</b>	<b>20.3</b>
<b>ACS Kdgt</b>	<b>71</b>	<b>4</b>	<b>17.8</b>	<b>73</b>	<b>4</b>	<b>18.3</b>
<b>ACS Gr. 1-8</b>	<b>359</b>	<b>19</b>	<b>18.9</b>	<b>353</b>	<b>17</b>	<b>20.8</b>

School: King Open School - Ola' Program

AU 18

<u>Grade</u>	<u>Current FY 2004-2005</u>			<u>Projected FY 2005-06</u>		
	<u>Enrollment</u> <u>1-Oct</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>	<u>Enrollment</u>	<u># of</u> <u>Classrooms</u>	<u>ACS</u> <u>by Grade</u>
K	13	1	13.0	16	1	16.0
1	9			9		
1/2		1	23.0		1	16.0
2	14			7		
3	8			11		
3/4		1	22.0		1	21.0
4	14			10		
5	11			10		
5/6		1	17.0		1	16.0
6	6			6		
7	9			8		
7/8		1	13.0		1	17.0
8	4			9	0.5	
				<i>PLUS .50 Science Teacher</i>		
<b>Total:</b>	<b>88</b>	<b>5</b>	<b>17.6</b>	<b>86</b>	<b>5.5</b>	<b>15.6</b>
<b>ACS Kdgt</b>	<b>13</b>	<b>1</b>	<b>13.0</b>	<b>16</b>	<b>1</b>	<b>16.0</b>
<b>ACS Gr. 1-8</b>	<b>75</b>	<b>4</b>	<b>18.8</b>	<b>70</b>	<b>4.5</b>	<b>15.6</b>

**Elementary School Classrooms for FY2005-06**

**School: Morse School**

**AU 20**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b>Enrollment</b>	<b># of</b>	<b>ACS</b>	<b>Enrollment</b>	<b># of</b>	<b>ACS</b>
	<b>1-Oct</b>	<b>Classrooms</b>	<b>by Grade</b>	<b>Enrollment</b>	<b>Classrooms</b>	<b>by Grade</b>
K	58	3	19.3	58	3	19.3
1	41	2	20.5	45	2	22.5
2	43	2	21.5	39	2	19.5
3	43	2	21.5	42	2	21.0
4	41	2	20.5	43	2	21.5
5	42	2	21.0	41	2	20.5
6	39	2	19.5	36	2	18.0
7	42	2	21.0	39	2	19.5
8	42	2	21.0	40	2	20.0
<b>Total:</b>	<b>391</b>	<b>19</b>	<b>20.6</b>	<b>383</b>	<b>19</b>	<b>20.2</b>
<b>ACS Kdgt</b>	<b>58</b>	<b>3</b>	<b>19.3</b>	<b>58</b>	<b>3</b>	<b>19.3</b>
<b>ACS Gr. 1-8</b>	<b>333</b>	<b>16</b>	<b>20.8</b>	<b>325</b>	<b>16</b>	<b>20.3</b>

Sped Class Gr  
7/8 - 3 students

**Elementary School Classrooms for FY2005-06**

**School: Peabody School**

AU 21

<b><u>Grade</u></b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b><u>Enrollment</u></b> <b><u>1-Oct</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>	<b><u>Enrollment</u></b>	<b><u># of</u></b> <b><u>Classrooms</u></b>	<b><u>ACS</u></b> <b><u>by Grade</u></b>
K	77	4	19.3	77	4	19.3
1	58	3	19.3	63	3	21.0
2	41	2	20.5	50	2	25.0
3	38	2	19.0	40	2	20.0
4	43	2	21.5	38	2	19.0
5	41	2	20.5	42	2	21.0
6	41	2	20.5	34	2	17.0
7	58	3	19.3	41	2	20.5
8	57	3	19.0	55	3	18.3
<b>Total:</b>	<b>454</b>	<b>23</b>	<b>19.7</b>	<b>440</b>	<b>22</b>	<b>20.0</b>
<b>ACS Kdgt</b>	<b>77</b>	<b>4</b>	<b>19.3</b>	<b>77</b>	<b>4</b>	<b>19.3</b>
<b>ACS Gr. 1-8</b>	<b>377</b>	<b>19</b>	<b>19.8</b>	<b>363</b>	<b>18</b>	<b>20.2</b>

**Elementary School Classrooms for FY2005-06**

**School: Tobin School**

**AU 23**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>			<b>ACS</b>	
	<b>Enrollment</b>	<b># of Classrooms</b>	<b>by Grade</b>	<b>Enrol.</b>	<b>Plus Hag gr6</b>	<b>Tot</b>	<b># of Classrooms</b>	<b>by Grade</b>
K	51	3	17.0	52		52	3	17.3
1	28	2	14.0	34		34	2	17.0
1/2								
2	38	2	19.0	24		24	2	12.0*
3	37	2	18.5	39		39	2	19.5 <small>Sped Class Gr3/4 - 8 students (2/6)</small>
4	37	2	18.5	32		32	2	16.0
4/5								
5	30	2	15.0	37		37	2	18.5 <small>Sped Class Gr5/6 - 9 students (3/6)</small>
6	23	2	11.5	24		24	2	12.0
7	37	2	18.5	22	12	34	2	17.0
8	43	2	21.5	34		34	2	17.0
<b>Total:</b>	<b>324</b>	<b>19</b>	<b>17.1</b>	<b>298</b>	<b>12</b>	<b>310</b>	<b>19</b>	<b>16.3</b>
<b>ACS Kdgt</b>	<b>51</b>	<b>3</b>	<b>17.0</b>	<b>52</b>	<b>0</b>	<b>52</b>	<b>3</b>	<b>17.3</b>
<b>ACS Gr. 1-</b>	<b>273</b>	<b>16</b>	<b>17.1</b>	<b>246</b>	<b>12</b>	<b>258</b>	<b>16</b>	<b>16.1</b>

**Elementary School Classrooms for FY2005-06**

**School: Tobin School - Sheltered English Immersion Program**

**AU 23**

<b>Grade</b>	<b>Current FY 2004-2005</b>			<b>Projected FY 2005-06</b>		
	<b>Enrollment</b>	<b># of</b>	<b>ACS</b>	<b>Enrollment</b>	<b># of</b>	<b>ACS</b>
	<b>1-Oct</b>	<b>Classrooms</b>	<b>by Grade</b>		<b>Classrooms</b>	<b>by Grade</b>
K	13	1	13.0	13	1	13.0
1	6			7		
1/2		1	11.0		1	14.0
2	5			7		
3	5			7		
4	4			4		
3/4/5		1	13.0		1	13.0
5	4			2		
6	8			7		
6/7/8		1	17.0		1	14.0
7	5			3		
8	4			4		
<b>Total:</b>	<b>54</b>	<b>4</b>	<b>13.5</b>	<b>54</b>	<b>4</b>	<b>13.5</b>
<b>ACS Kdgt</b>	<b>13</b>	<b>1</b>	<b>13.0</b>	<b>13</b>	<b>1</b>	<b>13.0</b>
<b>ACS Gr. 1-8</b>	<b>41</b>	<b>3</b>	<b>13.7</b>	<b>41</b>	<b>3</b>	<b>13.7</b>

**Number of Multigraded Classrooms**

<b><u>A/U</u></b>	<b><u>School</u></b>	<b><u>FY04-05</u></b>	<b><u>FY05-06</u></b>
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**Schools with Multi-graded Classroom Structural Design**

28	Cambridgeport	12	12
25	Graham & Parks	11	11
18	King Open	17	17
18	King Open OLA'	4	4
	<b>Sub-total:</b>	<b>44</b>	<b>44</b>

**Other Schools**

15	Amigos	3	0
10	Baldwin	0	0
24	Fletcher/Maynard	1	0
13	Haggerty	1	0
27	Kennedy/Longfellow	0	0
27	Kennedy/Longf. ISP	0	0
17	King	0	1
20	Morse	0	0
21	Peabody	0	0
23	Tobin	<u>0</u>	<u>0</u>
	<b>Sub-Total:</b>	<b>5</b>	<b>1</b>

# Other District Comparisons

Other District Comparisons

<i>(Data* as of School Year 2004-05)</i>	<u>Cambridge</u>	<u>Brookline</u>	<u>Somerville</u>	<u>Newton</u>
<b>Elementary K-8</b> (except Newton K-5)	<b>4,361</b>	<b>3,875</b>	<b>3,770</b>	<b>4,975</b>
<b>Total number of schools</b>	<b>12</b>	<b>8</b>	<b>11</b>	<b>16</b>
<b>Average Size of School</b>	<b>363</b>	<b>484</b>	<b>343</b>	<b>311</b>
<b>Middle School (Newton 6-8)</b>				<b>2,620</b>
<b>Total number of schools</b>				<b>4</b>
<b>Average Size of School</b>				<b>655</b>
<b>High school (9-12)</b>	<b>1,827</b>	<b>1,888</b>	<b>1,618</b>	<b>3,673</b>
<b>Total number of schools</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Total Enrollment**</b>	<b>6,188</b>	<b>5,763</b>	<b>5,388</b>	<b>11,268</b>
<b>Total Schools</b>	<b>13</b>	<b>9</b>	<b>12</b>	<b>22</b>

<b>Total Teachers</b>	<b>682.5</b>	<b>469.0</b>	<b>452.0</b>	<b>963.8</b>
<b>Student-Teacher Ratio</b>	<b>9:1</b>	<b>12:1</b>	<b>12:1</b>	<b>12:1</b>

\* Source of data: Individual district budget offices

\*\* Does not include tuitioned out students

**If Cambridge were to increase to a**  
**12:1 student-teacher ratio,**  
**as is the case in the other districts:**

*the total number of teachers in the district would be:*

**515.5 FTE Teachers**

*and the related savings would be:*

**167 teacher positions**

**at a total cost of \$13,544,700**

Other District Comparisons

Non-Salary Budget Allocations to Schools

	<u>Cambridge</u>	<u>Brookline</u>	<u>Somerville</u>	<u>Newton</u>
<b>Per Pupil Materials/Books/Supplies Allocation to Schools:</b>	<b>\$140*</b>	<b>none</b>	<b>\$140</b>	<b>\$117</b>
<b>Per Pupil Professional Devel. Allocation to Schools</b>	<b>\$40*</b>	<b>none</b>	<b>none</b>	<b>\$3</b>
<b>Per Pupil School Improvement</b>	<b>\$222*</b>	<b>none</b>	<b>none</b>	<b>none</b>
<b>Total: Resources Allocated per Pupil to Schools for Principals' discretionary use</b>	<b>\$402*</b>	<b>\$0</b>	<b>\$140</b>	<b>\$120</b>
<b>Total</b>	<b>\$2,459,838</b>	<b>\$ 0</b>	<b>\$754,320</b>	<b>\$1,351,686</b>

*\* Proposed budget figures (total increase of \$90 per pupil over last year). Other districts' proposals not available.*

Other District Comparisons

Administrators - FY04-05

	Prin.	Asst. Prin/ Deans	Dep Supt Asst Supt COO	Curr. Dir.	Aff. Act.	Curr. Coord.	Sped Adm.	Ell/ Bil	Staff Atty	Assmt Acct/ Test	Grant	Bus Mgr/ CFO	Hum Res Dir	Total
<b>Brookline</b> 5763 Pupils 9 Schools	9.0	13.3	3.0	-	-	15.5	4.0	1.0	-	1.0	1.0	1.0	1.0	49.8
<b>Cambridge</b> 6188 Pupils 13 Schools	15.0	25.0	2.0	1.0	0.5	12.0	4.0	1.0	1.0	2.0	0.0	1.0	1.0	65.5
<b>Newton</b> 11268 Pupils 22 Schools	22.0	16.1	3.0	-	-	15.8	11.0	1.0	-	-	-	1.0	1.0	70.9

**Per Pupil Costs - DOE FY2003-04\***

	<b><u>Per Pupil Cost</u></b>
<b>Brookline</b>	<b>\$ 10,630</b>
<b>Newton</b>	<b>\$ 11,012</b>
<b>Somerville</b>	<b>\$ 10,825</b>
<b>Cambridge</b>	<b>\$ 15,890</b>

\* Referenced in "Comparative Review of School District Support and Administrative Staffing", Exhibit 3 (pg. 4), MMA Consulting Group Inc. February, 2005

**Items in Cambridge Budget not in Brookline Budget (FY04-05)**

<b>1. Lower teacher-to-student ratio (9:1 vs. 12:1)</b>	<b>13,544,700</b>
<p>- including: Full-day kindergarten &amp; Early Childhd Resource tchrs          Academic Specialist Teachers (Art, Music, P.E.          For. Lang.) at lower grade levels          Smaller class sizes and maintaining integrity of          Middle School core curriculum "Highly Qualified" tchrs          Sheltered English Immersion &amp; Sped Inclusion classes</p>	
<b>2. Computer Technology Technical Assistants</b>	<b>929,055</b>
<b>3. Extended Day &amp; Summer School Programs</b>	<b>307,901</b>
<p><i>(CPS Summer school costs of \$474,955 not included in "Day Program" per pupil cost)</i>  <i>(Brookline charges fees and uses Grants to fund)</i></p>	
<b>4. Instructional Aides in K-8 (not including kdgt. aides)</b>	<b>2,738,791</b>
<b>5. School Improvement Plan Allocations to Schools</b>	<b>1,103,478</b>
<b>6. Family Liaisons and Family Resource Center</b>	<b>1,043,275</b>
<b>7. Additional Principals, Assistants and Deans</b>	<b>1,869,705</b>
<b>8. School Prog. Improvement/Devel - Selected Schools</b>	<b>506,563</b>
<b>9. In-house Maintenance Staff &amp; Capital Proj. Funding</b>	<b>1,253,374</b>
<b>10. Transportation - controlled choice</b>	<b>1,002,501</b>
<b>11. Home-Based Programs (Reg &amp; Sped) for 18-Mos to 3-Yr-Olds</b>	<b>-</b>
<p><i>(\$433,456 not included in "Day Program" per pupil costs)</i></p>	
<b>12. CPS Health Insurance at 88% vs. Brookline @ 75% &amp; Dental Insurance (not provided in Brookline)</b>	<b>1,906,708</b>
<b>13. Professional Development Allocations to Schools</b>	<b>551,260</b>
<b>14. Operating Costs of 3 schools</b>	<b>2,247,264</b>
<b>Total:</b>	<b>\$ 29,004,574</b>
<b>Divided by: 6450 Students</b>	
<b>Equals: Per Pupil Cost</b>	<b>\$ 4,497</b>

**Per Pupil Costs - DOE FY2003-04\***

	<b><u>Per Pupil Cost</u></b>
<b>Brookline</b>	<b>\$ 10,630</b>
<b>Newton</b>	<b>\$ 11,012</b>
<b>Somerville</b>	<b>\$ 10,825</b>
<b>Cambridge</b>	<b>\$ 15,890</b>
<b>less: non-typical cost items</b>	<b><u>(4,497)</u></b>
<b>equals: adjusted per pupil</b>	<b>\$ 11,393</b>

\* Referenced in "Comparative Review of School District Support and Administrative Staffing", Exhibit 3 (pg. 4), MMA Consulting Group Inc. February, 2005

*revised 3/21/05*

**Professional Development (FY04-05)**

	<b>School Budgets</b>	<b>District Budget</b>	
<b>Total "Professional Development" Program Budgets</b>	<b>1,207,573</b>	<b>1,075,630</b>	
<b>Pro-rated Salary time (with benefits)</b>	<b>4,560,753</b>	<b>2,781,005</b>	
<b>Total General Fund Bgt. for Professional Development</b>	<b>5,768,325</b>	<b>3,856,635</b>	
<b>Grants Professional Development</b>	<b>_____ -</b>	<b><u>2,259,802</u></b>	
<b>Total: Professional Development</b>	<b>5,768,325</b>	<b>6,116,437</b>	<b>\$ 11,884,762</b>
<b>Total Professional Development as a percentage of Total General Fund Budget (\$122.1 mil)</b>			<b>9.7%</b>

**Pro-Rated Salary Time - Assumptions (all amounts are based on budgeted expenses for FY04-05)**

Elementary Teachers have 5% time, based on 5 early release days, 2 in-service days and 30 hours of prof. dev. mtgs.  
 High School Teachers have 7% time, based on 36 early release days, 2 in service days and block sched. curr. mtgs.  
 Estimates were given from each of the Curriculum Offices for their staff, averaging 54% for coordinators.

Inclusionary Specialists - 10% time.	Team or Lead Teachers - 40% time.
Instructional Coaches - 100% time.	Principals 20% time.
Teacher in Charge 20% time.	Vice Principals 15% time.
Curriculum Support 30% time.	Deans of Curriculum 40% time.

## FY05-06 Budget - Enrollment Summary

	<u>Prior Yr.</u> <u>SY03-04</u>	<u>Current Yr.</u> <u>SY04-05</u>	<u>Incr./</u> <u>(Decr)</u>	<u>Projected</u> <u>Next Yr.</u> <u>SY05-06</u>	<u>Incr./</u> <u>(Decr)</u>
<b>Elementary</b>	<b>4,557</b>	<b>4,361</b>	<b>(196)</b>	<b>4,334</b>	<b>(27)</b>
<b>Secondary</b>	<b>1,887</b>	<b>1,827</b>	<b>(60)</b>	<b>1,785</b>	<b>(42)</b>
<b>Special Education Tuition-Out</b>	<b>212</b>	<b>180</b>	<b>(32)</b>	<b>180</b>	<b>-</b>
<b>Minuteman Tuition- Out</b>	<u><b>100</b></u>	<u><b>82</b></u>	<u><b>(18)</b></u>	<u><b>50</b></u>	<u><b>(32)</b></u>
<b>Total:</b>	<b>6,756</b>	<b>6,450</b>	<b>(306)</b>	<b>6,349</b>	<b>(101)</b>

**5-Year Projected Revenues vs. Projected Expenditures - General Fund Budget**

	Current Fiscal Yr. <u>FY04-05</u>	Budget <u>FY05-06</u>	Budget <u>FY06-07</u>	Budget <u>FY07-08</u>	Budget <u>FY08-09</u>	Budget <u>FY09-10</u>	
Estimated Revenues	\$ 122.1 mil	124.1	127.7	132.3	133.1	138.1	
<i>% incr.</i>		1.6%	2.9%	3.6%	0.6%	3.8%	<b>avg.</b> 2.5%
Estimated Expenditures	\$ 122.1 mil	124.1	129.7	135.9	141.4	148.7	
<i>% incr.</i>		1.6%	4.5%	4.8%	4.0%	5.2%	<b>avg.</b> 4.0%
Potential Funding Shortfall	\$ -	\$ -	\$ (2.0)	\$ (3.6)	\$ (8.3)	\$ (10.6)	

**Data from DOE October 1 Staffing Reports \***

<b><u>State Category (Fy04-05)</u></b>	<b><u>FY00-01</u></b>	<b><u>FY04-05</u></b>	<b><u>FY05-06</u></b>	<b><u>Diff FY00-01 to FY05-06</u></b>
<b>A. <u>District Administration</u></b>				
1. District Administrators	38.00	29.55	29.55	(8.45)
2. District Administrative Support	230.50	77.65	65.98	(164.52)
<b>Sub-total</b>	<b>268.50</b>	<b>107.20</b>	<b>95.53</b>	<b>(172.97)</b>
<b>B. <u>Service, Operations &amp; Maintenance</u></b>	<b>174.30</b>	<b>163.36</b>	<b>161.93</b>	<b>(12.37)</b>
<b>D. <u>School Administration</u></b>				
1. School Administrators	31.00	38.00	35.00	4.00
2. School Administrative Support	86.30	48.56	43.31	(42.99)
<b>Sub-total:</b>	<b>117.30</b>	<b>86.56</b>	<b>78.31</b>	<b>(38.99)</b>
<b>Total:</b>	<b>560.10</b>	<b>357.12</b>	<b>335.77</b>	<b>(224.33)</b>

\* Includes all funding sources

**Data from DOE October 1 Staffing Reports \***

<b><u>State Category (Fy04-05)</u></b>	<b><u>FY00-01</u></b>	<b><u>FY04-05</u></b>	<b><u>FY05-06</u></b>	<b>Diff FY00-01 to FY05-06</b>
<b>C. <u>Special Education Related Staff</u></b>	<b>9.20</b>	<b>32.30</b>	<b>32.30</b>	<b>23.10</b>
<b>E. <u>Instructional Staff (Teaching Staff)</u></b>	<b>839.20</b>	<b>652.20</b>	<b>651.70</b>	<b>(187.50)</b>
<b>F. <u>Instr. Paraprofessionals</u></b>	<b>264.90</b>	<b>252.54</b>	<b>232.21</b>	<b>(32.69)</b>
<b>Total:</b>	<b>1113.30</b>	<b>937.04</b>	<b>916.21</b>	<b>(197.09)</b>

\* Includes all funding sources

# Adjusting Priorities within the Base Budget

## FY05-06 Budget - Adjusting Priorities within the Base Budget

	<u>FTE</u>	<u>Amount</u>
1. Reallocate equipment funding from School Committee budget for Cable/AV equipment (completed this year) to RSTA for new Media Arts program equipment		55,000
2. Reallocate monies for teacher training for Multi-graded classrooms to Paraprofessional training in literacy & math.		15,000
3. Continue Inservice at CRLS for transition to block schedule (reduced from \$427,500)		200,000
4. Graham & Parks Reading Recovery teacher (final school to implement program)	1.00	63,317
5. Retain contingency reserve for unanticipated expenses		100,000

**FY05-06 Budget - Adjusting Priorities within the Base Budget**

	<u>FTE</u>	<u>Amount</u>
6. Continuation of Science K-12 Initiative		250,000
7. Allocation of school projects budget to HVAC improvements		500,000
8. Continue commitment to elementary summer school program for MCAS support.		360,000

# Restructuring/Reductions

**FY05-06 Budget - Restructuring/Reductions**

**FTE**

**Amount**

1. **Reduction/Restructuring of administrative staff and operations positions**

1.0 Business Analyst position in Finance	26 Positions	(961,331)
1.0 Court Liaison	(20.35 FTE	
1.0 registrar in Family Resource Ctr.		
1.0 clerk in Human Resources		
1.0 clerk in Payroll		
.5 clerk in Purchasing		
4 part-time clerks in CRLS Small Learning Comm. (3.0 FTE)		
1 clerk in CRLS main office from F/T to P/T (.25 FTE)		
1.0 clerk in CRLS Asst. Principal office		
2.0 clerks in curriculum offices		
1.0 Technical Analyst in Science		
1.0 clerk in Office of Special Education		
1.0 clerk in Plant Maintenance		
1.0 aide in Teacher Resource Center		
1.0 deliveryperson in Food Services		
.43 clerk in Food Services		
3 Bilingual Liaison Coordinators, reduce from 12-month to to 10-month. (.50 FTE)		
.67 Program Analyst in bilingual admin.		
1.0 Technical Assistant in RSTA		
1.0 secretary in Executive Directors' offices (Curr & CFO)		
Total: 26 positions		

**FY05-06 Budget - Restructuring/Reductions**

	<b><u>FTE</u></b>	<b><u>Amount</u></b>
2. CRLS administrative restructuring/reduction of Assistant Principal position.	(1.00)	(128,298)
3. Reduction of additional Elementary Assistant Principal positions at the consolidated schools (Kennedy/Longfellow & Peabody) due to retirements, and establish internship positions for leadership development program (see item 6 in Program Initiatives section).	(2.00)	(185,798)
Sub-total: Administrative positions and operations staff	(23.35)	(1,275,427)

**FY05-06 Budget - Restructuring/Reductions**

**FTE**

**Amount**

4. Net reduction of .5 FTE elementary classroom teachers due to enrollment decline.	(0.50)	(31,658)
5. Reduction of 7.0 CRLS teacher positions due to enrollment decline	(7.00)	(443,217)
6. Reduction of elementary instructional aides due to enrollment decline and classroom teacher conversions.	(19.33)	(476,698)
Sub-total: Classroom and School Support Positions	(26.83)	(951,573)
Total:	(50.18)	(2,227,000)

# Program Initiatives & Improvements

<b><u>FY05-06 Budget - Program Initiatives &amp; Improvements</u></b>	<b><u>FTE</u></b>	<b><u>Amount</u></b>
<b>A. <u>Development of Leadership Assets</u></b>		
1. Leadership Professional Development program with Principals.		\$ 152,500
2. Establish Internship Program for aspiring leaders		
- Conversion of vacant elementary Assistant Principalships to Administrative Internships (two retirements this year)	2.00	160,000
- CRLS Administrative Internship	1.00	80,000

**FY05-06 Budget - Program Initiatives & Improvements**

**FTE**

**Amount**

**B. Excellence of Instruction Through Inservice**

3. Professional Development

- increase allocation to schools from \$20 per pupil to \$40 per pupil

122,380

- districtwide inservice training, including paraprofessionals

103,093

4. Sabbatical Leaves for two teachers in addition to Conant Fellowships.

63,317

**FY05-06 Budget - Program Initiatives & Improvements**

**FTE**

**Amount**

**C. High School Success**

- |  |  |        |
|--|--|--------|
| 5. High School Graduate follow-up study                            |  | 15,000 |
| 6. Special Education transitional services for students ages 18-22 |  | 60,000 |

**D. Securing the Future**

- |  |  |         |
|--|--|---------|
| 7. Nextel security communications system for all schools               |  | 33,000  |
| 8. Recycling program for cafeteria styrofoam products                  |  | 10,000  |
| 9. Debt stabilization fund for bonding future school capital projects. |  | 450,000 |

**FY05-06 Budget - Program Initiatives & Improvements**      **FTE**      **Amount**

**E. Instructional Advancements & Closing the Achievement Gap**

10. CRLS - Reading program for 9th & 10th grade students in MCAS ELA courses		20,000
11. RSTA - teacher staffing for new Media Arts program and 30% increase in student time in technical courses to meet DOE requirements.	3.00	189,950
12. Avid Program at middle schools (4 schools), and continuing implementation at CRLS.		54,715
13. Smartboards for Middle School classrooms (including inservice)		55,000

<b><u>FY05-06 Budget - Program Initiatives &amp; Improvements</u></b>	<b><u>FTE</u></b>	<b><u>Amount</u></b>
14. Increase funding for Summerbridge Program for summer school program for Middle School students		8,247
15. Expansion of Literacy Collaborative program, including four .5FTE teacher positions, and training.	2.00	275,710
16. School Volunteers funding to assist with recruitment of volunteers for MCAS extended day programs		5,000
17. Extended Day in all schools - emphasis on students needing MCAS support		<u>369,088</u>
<b>Total: Program Initiatives &amp; Improvements</b>	<b>8.00</b>	<b>\$ 2,227,000</b>

# **Cambridge Science Initiative**

## **Goal 1: The City of Cambridge will demonstrate the characteristics of a scientifically literate community.**

- **Involving Families**

- \*Museum of Science memberships; family science nights at schools, the Museum of Science, and the Harvard Museum of Natural History

- Family star shows in the Star Lab portable planetarium

- Community Science Fair night

- **The Broader Community**

- \*CRLS NASA Space shuttle student project on billboards. (Great space donated by Biogen Idec)

- CRLS student National Marine Biology winners on billboards

- \*Science Matters/Initiative of CTA, NEA, Cambridge businesses, MIT, and Harvard, to publicly showcase student and teacher accomplishments

- \*Soon to be published Newsletter by Harvard: Science in the Cambridge Public Schools

## Cambridge Science Initiative

Goal 2: “Habits of Mind: Science in Cambridge” will be an exemplar K-12 science curriculum that reflects the national standards.

- \*Harvard’s Department of Engineering and Applied Sciences places doctoral students in CRLS in support of science instruction (NSF Program)
- \*Maynard Ecology Center trips at 3<sup>rd</sup> grade, (Friends of Fresh Pond and CPS)
- Star Shows for classrooms in the StarLab portable planetarium
- Physics for all ninth grade students, followed by chemistry and biology in 3-year requirement
- \*Tobin School “Ham It Up Radio Club” (Amateur Relay Radio League and Harvard University Wireless Club)
- \*MIT/Cambridge Science Expo for 7<sup>th</sup> and 8<sup>th</sup> grade students enters its 12<sup>th</sup> year of collaboration with MIT
- \*CRLS Annual Science Fair

## **Cambridge Science Initiative**

### Goal 2 (Cont'd)

- \*Tufts University Medical School teaching lab on antibiotic resistant bacteria at CRLS
- \*CPS science education research grants submitted collaboratively with Harvard, MIT, and Lesley Universities
- \*Draper Research shared with RSTA Engineering students at Draper Open House
- \*Draper displays and demonstrations at RSTA 8<sup>th</sup> grade Tech Night
- \*Draper financial support for RSTA summer program targeting female student participation
- \*All 7<sup>th</sup> grade science classes to participate in a photosynthesis lab at the Museum of Science during the spring of 2005
- \*All 8<sup>th</sup> grade science classes to participate in the biotechnology lab built by Biogen Idec as a biotechnology company/community lab
- Investment of Science Initiative money in middle school science labs for “cutting edge” instruction

## Cambridge Science Initiative

### Goal 3: Extraordinary and unique opportunities will be available to all students and teachers in CPSD.

- \*Student science internships at Harvard's Peabody Museum of Archeology, the Boston Aquarium, and the Whitehead Institute for Biomedical Research
- \*Teachers awarded fellowships at MIT, Harvard, Draper, and Johns Hopkins to do science research
- \*Genzyme sponsored science sabbaticals at the Boston Museum of Science
- \*Summer '04 workshop for CPSD teachers on technology integration in science (TELS grant with UC Berkeley and Concord Consortium)
- Secondary students and teacher accompany a scientist team on research expedition entitled **Pacific Wildflowers** sponsored by Earthwatch [Summer 2005]
- \*Participation in an International Biotechnology initiative with the Museum of Science, Boston Public Schools, CPS teachers in Switzerland (sponsored by Novartis)

## **Cambridge Science Initiative**

### Goal 3 (Cont'd)

- \*CPS/Brevard County Partnership to include a two week teacher exchange (Summer of 2005) and ongoing relationship
- Teacher participation in fellowships on environmental issues in Keystone, Colorado and the Exploratorium in San Francisco
- \*Approximately 20 CPS classroom teachers enrolled in a graduate level course at the HMNH focused on natural selection and evolution
- \*Nanotechnology Seminar Series at Harvard for high school teachers
- \*Whitehead Institute Lecture series for high school science teachers
- \*Recognition of a CRLS science teacher by Amgen for outstanding science instruction
- Initiation of Science Research Seminars for CRLS students (05-06)
- April 2005 Science Vacation Camp for 30 middle school students

# **Cambridge Science Initiative**

**Goal 4: Partnerships between colleges and universities, the biotechnology industry, museums, education research and development companies and the Cambridge Public Schools.**

**ASTERISKED (\*) THROUGHOUT OTHER GOALS**