

### Comparison Data of Four Vocational Education School Districts

	Minuteman Lexington	Assabet Marlborough	Nashoba Westford	Keefe Vocational (South Middlesex) Framingham
<b>Logistics</b>				
Distance from Lincoln Center	3.5 miles	17.1 miles	16.3 miles	19.9 miles
Tenure of Principal	Former Asst. Princ.  Interim 12/2014	8 years	Promoted Director of Curriculum to Principal in 2010	<b>January 2014, Prior 5 years as Academic Coordinator</b>
Tenure of Superintendent	2008	December 2014 Formerly the Principal at MM	20 years Incumbent will be retiring in 2016	<b>January 2014, 20 Years in District</b>
Student/Teacher Ratio	8.5: 1	10.4: 1	12.6:1	9:01
Website current, up to date	Yes	Yes	Yes	Yes
<b>Accountability level 1-5 (1 being the highest): 2014</b>	Level 2	Level 2	Level 1	Level 1
<b>Accademic Offerings</b>				
English	23 courses including Honors & AP programs	21 course offerings including Honors & AP	10 course offerings including Honors and A&P	14 course offerings including Honors
Math	22 courses including: Algebra (Including Honors), Pre-Calculus(Inclu ding Honors), Calculus (Including Honors & AP), Geometry (Including Honors), Trigonometry, Business Math, Consumer Math, Foundations of Career Tech Math	15 course offerings including: Alegebra, Geometry, Honors Geometry, Pre-Calculus, AP Calculus, Financial Literacy, Contemporary math for the informed consumer, Numeracy, Analysis of everyday data, MCAS Math Prep	10 course offerings including: Algebra, Pre-Calculus, Calculus. Advanced placement AB Calculus, Computer Science and Statistics	15 courses including: Algebra I and II (Including Honors), Pre-Calculus(Including Honors), Calculus (Including Honors ), Geometry (Including Honors), Trigonometry, Statistics, Mathematical Concepts

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Foreign Language	9 programs: French, Latin & Spanish	Spanish 3 levels, Portuguese 3 levels	Spanish 4 levels	Spanish 3 levels (I, II, Literature), 10 English Language courses (ESL I, II, III, IV, V, ESL Literature)
Science	18 courses: Anatomy & Physiology, Biology(Including Honors), Chemistry(Including Honors), Nutrition & the Body, Physics(Including Honors), Psychology, Technology/Engineering	15 course offerings: Biology, Cellular & Evolutionary Biology Lab (and Honors) , Anatomy & Physiology, Chemistry , Honors Chemistry, Chemistry Lab, Forensics, Physics, Physics Lab, Honors Physics lab, AP Physics, Pre-engineering, MCAS Science Prep	15 course offerings include: Life Science (and Honors), Biology (and Honors), Chemistry (and Honors), Physics (and Honors), Electrical Code, Plumbing & Heating Code	14 course offerings: Biology I, II, Chemistry Lab, Physics Lab (including Honors), Engineering and Technology Lab, Anatomy & Physiology Lab (including Honors),Environmental Science Lab, Human Biology, Forensic Science Lab (including Honors)
Hands On Learning Opportunities in Academic Classrooms	Yes	Yes	TBD	Yes
Social Studies	13 courses: Civics, US History(Including Honors), US History & Cinema, Modern World History (Including Honors),World History 500-1800 (Including Honors)	4 year requirement. US History I, II & III, US History Honors and AP, Modern World Geopolitics, AP Government & Society, War in Film, Contemporary issues, Psychology, Economics	8 course offerings include: World History, US History I, US History II, Government, Sociology & Psychology,	4 year requirement US History I (including Honors), II(including Honors), Current World Affairs), Law and Society (including Honors), Business Management (including Honors)
Number of AP classes in English	Literature & Composition	Language & Composition Literature & Composition	Language & Composition Literature & Composition	No
Number of AP classes in Math	Calculus AB & BC	Calculus AB Page 2 of 8	Calculus AB Statistics Computer Science	No

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Number of AP classes in Foreign Languages	German (2013)	None	None	No
Number of AP classes in Science	Enviromental Science (2013)	Physics	Biology Physics Chemistry Physics C Mechanics	No
Number of AP classes in History	No	US History	US History	No
Number of AP classes in Social Sciences	No	US Government	US Government & Politics	No
Offers AP Computer Science (Y/N)	Yes	No	No	No
Industry Aligned Curriculum	Yes	Yes	Yes	Yes
Offers Internship Opportunities	Yes	Yes	Yes	Yes
<b>Local Actual Academic Attainment Perkins Report: 2014/2015</b>				
Academic Attainment - Language Arts	93.21%	92.86%	95.48%	<b>82.58%</b>
Academic Attainment - Mathematics	68.52%	76.37%	76.13%	<b>60.15%</b>
Technical Skill Attainment 2S1	98.26%	97.92%	100.00%	<b>96.81%</b>
Completion 3S1	92.44%	97.92%	100.00%	<b>92.36%</b>
Graduation Rates 4S1	90.54%	95.24%	98.08%	<b>89.61%</b>
Placement 5S1	98.55%	96.53%	97.24%	<b>92.70%</b>
Nontraditional by Gender Participation	17.33%	24.11%	21.92%	<b>15.16%</b>
Nontraditional by Gender Completion	15.22%	21.43%	17.73%	<b>13.68%</b>
<b>Select Vocational Programs</b>				
Robotics, Engineering	Yes/Yes	No/Yes	Yes/Yes	No/Yes
Computer Programming and Web Development	Yes	Yes	Yes	Yes
Telecommunications & Fiber optics	To be eliminated 9/2018	No	No	No
Design and Visual Communications	Yes	Yes	Yes	Yes
Biotechnology	Yes	Yes	Yes	No
Environmental Science and Technology	Yes	Page 3 of 8 No	No	No
Automotive mechanics	Yes	Yes	Yes	Yes

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Automotive collision	No	Yes	Yes	Yes
Electrical wiring	Yes	Yes	Yes	Yes
Metal Fabrication & Welding	Yes	Yes	No	Yes
Machine tool technology	No	No	Yes	No
Advanced Manufacturing	Starts 9/2016	Yes	No	No
Carpentry	Yes	Yes	Yes	Yes
Plumbing & Heating	Yes	Yes	Yes	Yes
Painting & Design	No	Yes	No	No
Drafting Design	No	Yes	No	No
Television, Media/Theater Art	No	No	Yes	No
Multi-Media Engineering	New 9/2016	No	No	No
Business Technology	No	Yes	No	Yes
Banking, Marketing, Retail	*Marketing To be eliminated 9/2018	No	Yes	No
Health Assisting	Yes	Yes	Yes	Yes
Health Technology	No	Yes	No	Yes
Dental Assisting	No	No	Yes	No
Early Education, Care	Yes	No	Yes	Yes
Culinary Arts & Hospitality	Yes	Yes	Yes	Yes
Cosmetology	Yes	Yes	Yes	Yes
Veterinary Assistant	No	No	Yes	No
Horticulture & Landscaping	Yes	No	No	Yes
<b>Discipline and Attendance: 2014/2015</b>				
% of students with fewer than 10 absences/year	53.40%	61.00%	83.20%	
% of students with at least 1 suspension/year	13.0%	11.90%	5.00%	10.90%
<b>Financial Implications: 2015/2016</b>				
In district cost per student	\$ 27,224	\$11,000 - \$14,000	\$10,000 - \$13,000	<b>\$18,000</b>

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Out of district cost per student	\$17,556 + \$4,500 for SPED  Does not include transportation or capital assessment	\$16,587  Does not include transportation or SPED. Does not charge for capital	\$15,000  Does not include transportation or SPED. Does not charge for capital	<b>\$17,556 No Capital or SPED Charge</b>
<b>Student and Faculty Information</b>				
Enrollment	624	1130	764	<b>693</b>
Lincoln Grade 9	0	N/A	N/A	N/A
Lincoln Grad 12	2	N/A	N/A	N/A
In District Student Body	370	757	704	<b>689</b>
Out of District Student Body	254	373	60	<b>4</b>
Faculty vacancies-academic	0.00%	0%		<b>0</b>
Faculty vacancies-vocational	0%	0%		<b>0</b>
Student retention rate	90.20%	90%	99.60%	
4 year graduation rate (DESE Report card)	93.80%	93.60%	95.10%	88.00%
Common planning time for teachers	Yes	Yes	Yes	<b>Partial</b>
Industry recertification of vocational instructors	Yes	Yes	Yes	<b>Yes</b>
Percentage of faculty deemed "high quality"	99.20%	100%		<b>94.20%</b>
Percentage of faculty teaching within field	98.70%	98% licensed in field	96.6% licensed in field	96.1% licensed in field
<b>Enrichment</b>				
Number of Varsity Sports Teams (Men)	Baseball, Basketball, Soccer, Cross-Country, Football, Golf, Ice Hockey, Lacrosse, Swimming, Tennis	Baseball, Basketball, Cross Country, Football, Volleyball, Track& Field, Wrestling, Soccer, Lacrosse, Ice Hockey, Golf	Baseball, Basketball, Cross Country, Football, Volleyball, Track& Field, Soccer, Lacrosse, Ice Hockey, Golf, Tennis, Wrestling	Baseball, Basketball, Cross Country, Football, Volleyball, Track& Field, Soccer, Lacrosse, Ice Hockey, Golf, Wrestling

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Number of Varsity Sports Teams (Women)	Basketball, Soccer, Softball +8 others	Softball, Soccer, Field Hockey, Cheerleading, Cross Country, Volleyball, Basketball, Track & Field, Lacrosse	Basketball, Cross Country, Cheerleading, Field Hockey, Soccer, Softball, Track & Field, Volleyball	<b>Cheerleading</b> , Basketball, Cross Country, Soccer, Softball, Track & Field, Volleyball
Number of vocational clubs	4	None	Epicurean, Robotics, Construction, TV Media (3 clubs), Horticulture, DECA (Banking, Marketing, Retail)	<b>8</b>
Number of academic clubs	6	First Robotics, Math team, Skills USA, National Honor Society	English competition, Math, Skills USA	<b>5</b>
Other	Skills USA, Music, Drama, Art, Art & Poetry Magazine, Gay/Straight Alliance, Community Service, Student Council, Yearbook, Future Farmers of America	Band, Chorus, Dance, Drama, First Robotics, National Honor Society, Gay Straight Alliance, Art Club, Business Professionals of America	National Honor Society, First Robotics, Skills USA, Student Council, Music, Band, Drama, Chorus, Yearbook, Newspaper, Mock trial, Astronomy Club, Ski/Snowboard, Vicking Voice, Gay Straight Alliance	<b>Drama, Yearbook, Chorus, Art, Chess/Gaming, GSA, Student Council</b>
<b>Partners and Community Outreach</b>				
Number of industry partners	188	300	150-200	<b>150-200</b>
Number of Industry partners on advisory board	29	170-180	80-100	<b>90-100</b>
Number of university partners	Articulation agreements	50	>100	<b>Articulation agreements</b>
<b>Post Graduation Plan: 2013/2014</b>				
Career/Workforce	19%	40%	30%	32%

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Military	6%	3%	7%	5%
2 year college	22%	23%	27%	22%
4 year college	54%	32%	29%	29%
Apprentice Program Opportunities		Yes		Yes
<b>Recruitment</b>				
Actively recruits in-district students	Yes	Yes	Yes	Yes
Actively recruits out of district students	Yes	Yes	No	No
<b>Innovation</b>				
Describe innovative strategies to keep school sustainable	Dual enrollment, Girls in STEM, Co-Op, AP Offerings	Dual enrollment, Girls in STEM, Co-ops, AP offerings, Jr. ROTC	Dual enrollment, Girls in STEM, Co-ops, AP Offerings. Working on trying to get accreditation for an Associates Degree program.	Engineering Institute
<b>MCAS - Spring 2015</b>	<b>*Highest % of Voc.Tech IEP Students in State (2015 = 50.8%) (95-100% IEP Participation)</b>	<b>35% of students are SPED</b>	<b>32% of students are SPED</b>	<b>46.4% of students are SPED</b>
% of students obtaining Advanced on Math	32%	36%	43%	23%
% of students obtaining Proficient on Math	41%	39%	35%	34%
% of students obtaining Needs Improvement on Math	21%	20%	17%	30%
% of students obtaining Advanced on ELA	34%	26%	22%	18%
% of students obtaining Proficient on ELA	63%	70%	71%	66%

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% of students obtaining Needs Improvement on ELA	3%	4%	7%	15%
% of students obtaining Advanced on Science/Tech and Engineering	15%	24%	24%	16%
% of students obtaining Proficient on Science/Tech and Engineering	55%	61%	56%	41%
% of students obtaining Needs Improvement on Science/Tech and Engineering	29%	14%	18%	36%
<b>Technology</b>				
Number of chrome books or computers per student	8.75:1	1.2	2.1	<b>1.2</b>
Campus has wi-fi	100%	100%	100%	<b>100%</b>
Workshops have modern equipment and machinery	Key areas updated: Engineering, Culinary, POS systems, Environmental, Welding Simulators, 3D Printers	All programs updated during recent \$62M renovation. Advanced Manufacturing.	Invest \$250K annually to modernize programs. Three to five year plan. Major overhaul in Cosmetology in 2006	<b>\$130,000 annually to update programs. Cosmo-2014 update, Auto-2014 update, Prog &amp; Web-2012 update</b>
Teachers keep class websites	No. Update "X2" which are resources & collaborative spaces for students	15-20 teachers keep websites	Yes	<b>Yes</b>
<b>SAT Scores (2014-2015)</b>				
Number of tests Taken	82	120	91	55
Reading	476	466	439	422
Writing	451	437	413	410
Math	421	457	452	434