

Comparison Data of Three Vocational Education School Districts

	Minuteman Lexington	Assabet Marlborough	Nashoba Westford
Logistics			
Distance from Boxborough	13.6 miles	13.5 miles	11.1 miles
Tenure of Principal	Former Asst. Princ. Interim 12/2014 Permanent 06/2015	8 years	Promoted Director of Curriculum to Principal in 2010
Tenure of Superintendent	2008	December 2014 Formerly the Principal at MM	20 years Incumbent will be retiring in 2016
Student/Teacher Ratio	8.5: 1	10.4: 1	12.6:1
Website current, up to date	Yes	Yes	Yes
Accountability level 1-5 (1 being the highest): 2014	Level 2	Level 2	Level 1
Academic Offerings			
English	23 programs including Honors & AP programs	21 course offerings including Honors & AP	10 course offerings including Honors and A&P
Math	22 programs including: Algebra (Including Honors), Pre- Calculus(Including Honors), Calculus (Including Honors & AP), Geometry (Including Honors), Trigonometry, Business Math, Consumer Math, Foundations of Career Tech Math	15 course offerings including: Algebra, 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.
Foreign Language	9 programs: French, Latin & Spanish	Spanish 3 levels, Portugese 3 levels	Spanish 4 levels

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Science	18 programs: 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
Hands On Learning Opportunities in Academic Classrooms	Yes	Yes	TBD
Social Studies	13 programs: 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 cours offerings include: World History, US History I, US History II, Government, Sociology & Psychology,
Number of AP classes in English	Literature & Composition	Language & Composition Literature & Composition	Language & Composition Literature & Composition
Number of AP classes in Math	Calculus AB & BC	Calculus AB	Calculus AB Statistics Computer Science
Number of AP classes in Foreign Languages	German (2013)	None	None

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Number of AP classes in Science	Enviromental Science (2013)	Physics	Biology Physics Chemistry Physics C Mechanics
Number of AP classes in History	No	US History	US History
Number of AP classes in Social Sciences	No	US Government	US Government & Politics
Offers AP Computer Science (Y/N)	Yes	No	No
Industry Aligned Curriculum	Yes	Yes	Yes
Offers Internship Opportunities	Yes	Yes	Yes
Local Actual Academic Attainment Perkins Report: 2014/2015			
Academic Attainment - Language Arts	93.21%	92.86%	95.48%
Academic Attainment - Mathematics	68.52%	76.37%	76.13%
Technical Skill Attainment 2S1	98.26%	97.92%	100.00%
Completion 3S1	92.44%	97.92%	100.00%
Graduation Rates 4S1	90.54%	95.24%	98.08%
Placement 5S1	98.55%	96.53%	97.24%
Nontraditional by Gender Participation	17.33%	24.11%	21.92%
Nontraditional by Gender Completion	15.22%	21.43%	17.73%
Select Vocational Programs			
Robotics, Engineering	Yes/Yes	No/Yes	Yes/Yes
Computer Programming and Web Development	Yes	Yes	Yes
Telecommunications & Fiber-optics	To be eliminated 9/2018	No	No
Design and Visual Communications	Yes	Yes	Yes
Bio Technology	Yes	Yes	Yes
Environmental Science and Technology	Yes	No	No
Automotive mechanics	Yes	Yes	Yes
Automotive collision	No	Yes	Yes

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Electrical wiring	Yes	Yes	Yes
Metal Fabrication & Welding	Yes	Yes	No
Machine tool technology	No	No	Yes
Advanced Manufacturing	Starts 9/2016	Yes	No
Carpentry	Yes	Yes	Yes
Plumbing & Heating	Yes	Yes	Yes
Planning & Design	No	Yes	No
Drafting Design	No	Yes	No
Television, Media/Theater Art	No	No	Yes
Multi-Media Engineering	Starts 9/2016	No	No
Business Technology	No	Yes	No
Banking, Marketing, Retail	*Marketing To be eliminated 9/2018	No	Yes
Health Assisting	Yes	Yes	Yes
Health Technology	No	Yes	No
Dental Assisting	Yes	No	Yes
Early Education, Care	Yes	No	Yes
Culinary Arts & Hospitality	Yes	Yes	Yes
Cosmetology	Yes	Yes	Yes
Veterinary Assistant	No	No	Yes
Horticulture & Landscaping	Yes	No	No
Discipline and Attendance: 2014/2015			
% 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%
Financial Implications: 2015/2016			
In district cost per student	\$ 27,224	\$11,000 - \$14,000	\$10,000 - \$14,000

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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
Student and Faculty Information			
Enrollment	673	1058	735
Boxborough Grade 9	0	N/A	N/A
Boxborough Grad 12	2	N/A	N/A
In District Student Body	370	757	704
Out of District Student Body	254	373	60
Faculty vacancies-academic	0.00%	0%	Not provided
Faculty vacancies-vocational	0%	0%	Not provided
Student retention rate	90.20%	90%	99.60%
4 year graduation rate (DESE Report card)	93.80%	93.60%	95.10%
Common planning time for teachers	Yes	Yes	Yes
Industry recertification of vocational instructors	Yes	Yes	Yes
Percentage of faculty deemed "high quality"	99.30%	100%	100%
Percentage of faculty teaching within field	98.70%	98% licensed in field	96.6% licensed in field
Enrichment			
Number of Varsity Sports Teams (Men)	Baseball, Basketball, Soccer, Cross-Country, Football, Golf, Ice Hockey, Lacrose, 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

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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
Number of vocational clubs	4	None	Epicurean, Robotics, Construction, TV Media (3 clubs), Horticulture, DECA (Banking, Marketing, Retail)
Number of academic clubs	6	First Robotics, Math team, Skills USA, National Honor Society	English competition, Math, Skills USA
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
Partners and Community Outreach			
Number of industry partners	188	300	150-200
Number of Industry partners on advisory board	29	170-180	80-100

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All Chapter 74 Voc Tech Schools have articulation agreements w/ all Massachusetts Community Colleges Other articulation agreements	50+	50+	50+
Post Graduation Student Intentions: 2013/2014			
Career/Workforce	19%	40%	30%
Military	6%	3%	7%
2 year college	22%	23%	27%
4 year college	54%	32%	29%
Apprentice Program Opportunities		Yes	
Post Graduation actual: 2012/2013			
Graduates attending College or Univerisity	50.40%	56.10%	54%
Recruitment			
Actively recruits in-district students	Yes	Yes	Yes
Actively recruits out of district students	Yes	Yes	No
Innovation			
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.

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Students with an Individual Education Plan	*Highest % of Voc.Tech IEP Students in State (2015 = 50.8%) (95-100% IEP Participation)	33.6% of students are SPED	32.7% of students ar SPED
MCAS - Spring 2015			
% of students obtaining advanced on Math	32%	36%	43%
% of students obtaining proficient on Math	41%	39%	35%
% of students obtaining Needs Improvement on Math	21%	20%	17%
% of students obtaining advanced on ELA	34%	26%	22%
% of students obtaining proficient on ELA	63%	70%	71%
%of students obtaining Needs Improvement on ELA	3%	4%	7%
% of students obtaining advanced on Science/Tech and Engineering	15%	24%	24%
% of students obtaining proficient on Science/Tech and Engineering	55%	61%	56%
% of students obtaining Needs Improvement on Science/Tech and Engineering	29%	14%	18%
Technology			
Number of chrome books or computers per student	8.75:1	1.2	2.1
Campus has wi-fi	100%	100%	100%

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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
Teachers keep class websites	No. Update "X2" which are resources & collaborative spaces for students	15-20 teachers keep websites	Yes
SAT Scores (2014-2015)			
Number of tests Taken	82	120	91
Reading	476	466	439
Writing	447	437	413
Math	452	457	452