



# DHS Math Resource Adoption

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January 2017



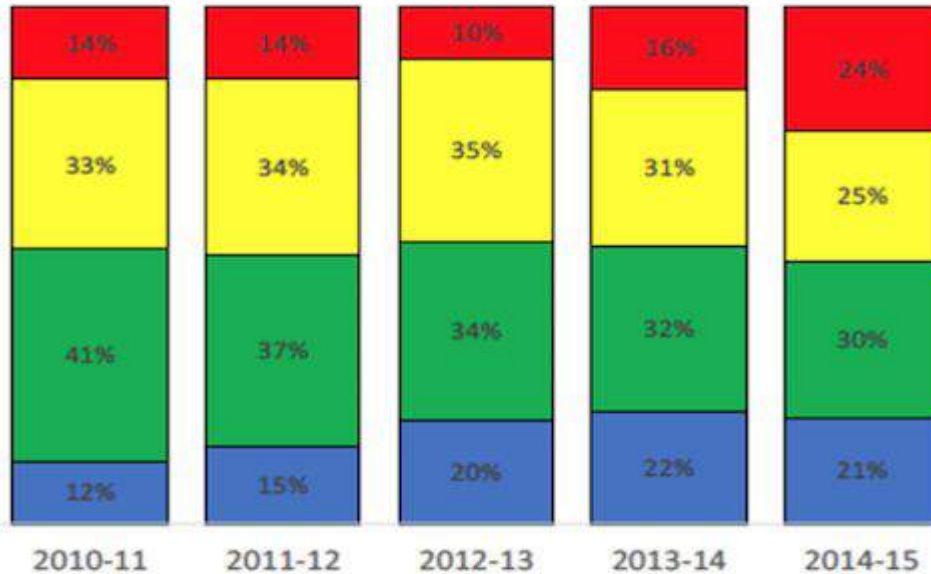
# Rationale for Resource Adoption

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- 2011 K-12 Math Curriculum Review recommended Everyday Math and embedded professional development for K-6
- Current (A1, G, A2) resources were adopted in 2006, predating Michigan Math Standards/Common Core implementation of 2010
- Pre-Calculus and Calculus resources were adopted in 2002, samples of new resources are also being previewed
- Current online resources are not currently supported with technology upgrades
- Increase in available technology and online resources
- Increased emphasis on Personalized Learning

# Supporting Data

DHS 11th Grade Math Proficiency Trends  
All Students: MME & M-STEP



■ Percent Advanced      ■ Percent Proficient  
■ Percent Partially Proficient      ■ Percent Not Proficient

- Only about 50% of DHS Juniors are proficient in math
- Achievement gap exists between highest and lowest sub groups

# Additional Data

Figure 3 - Peer Achievement Comparison (2016 State Assessment)

District	6th % Proficient (M-STEP)	7th % Proficient (M-STEP)	8th % Proficient (M-STEP)	11th % College & Career Ready
Birmingham Public Schools	67.3	66.4	70.5	64.6
Bloomfield Hills Schools	62.2	69.7	57.5	61.1
Brighton Area Schools	56.0	56.6	48.6	55.0
Chelsea School District	56.7	73.3	51.6	67.7
Dexter Community School District	71.1	59.4	59.4	68.6
East Grand Rapids Public Schools	56.4	73.0	66.1	71.4
Forest Hills Public Schools	62.2	66.5	66.4	69.7
Frankenmuth School District	53.8	46.1	53.5	66.7
Grosse Ile Township Schools	38.7	37.7	36.2	57.6
Grosse Pointe Public Schools	56.6	59.0	54.9	60.0
Hartland Consolidated Schools	48.1	49.6	56.6	57.1
Northville Public Schools	64.4	71.3	67.8	75.9
Novi Community School District	71.1	73.8	74.2	68.0
Rochester Community School District	68.8	66.3	66.4	66.3
Saline Area Schools	67.4	69.0	63.6	71.9
Troy School District	69.6	73.3	67.2	69.9

Figure 4 - Peer Growth Comparison (2016 State Assessment)

District	6th Mean SGP (M-STEP)	7th Mean SGP (M-STEP)	8th Mean SGP (M-STEP)	11th Mean SGP (M-STEP)
Birmingham Public Schools	65.9	53.2	55.2	55.3
Bloomfield Hills Schools	51.1	62.4	48.0	47.5
Brighton Area Schools	54.4	41.1	46.1	62.7
Chelsea School District	51.4	60.7	48.0	63.0
Dexter Community School District	76.2	52.1	54.5	68.0
East Grand Rapids Public Schools	38.0	57.7	58.3	58.5
Forest Hills Public Schools	51.4	53.3	56.1	53.2
Frankenmuth School District	59.3	61.1	57.1	70.9
Grosse Ile Township Schools	44.1	45.6	55.4	68.2
Grosse Pointe Public Schools	48.0	55.6	50.1	56.1
Hartland Consolidated Schools	63.0	57.7	67.9	55.9
Northville Public Schools	59.0	62.8	55.7	71.1
Novi Community School District	64.2	56.8	61.6	52.9
Rochester Community School District	52.4	48.4	54.6	54.5
Saline Area Schools	61.1	53.7	49.9	56.4
Troy School District	62.3	49.8	45.4	61.6

# New Resource Adoption background

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- Both the Middle School and High School reviewed materials from multiple publishers (Connected Math, College Prep Math, Big Ideas Math)
- DHS currently uses resources from Larsen - Houghton, Mifflin, Harcourt for Algebra 1, Geometry and Algebra 2
- DHS Math committee recommend purchase of Big Ideas Math (HMH) for Algebra 1, Geometry and Algebra 2
- Big Ideas Math has many new online resources that were not available a few years ago
- DHS Math committee also recommend purchase of Ti Nspire calculators with professional development for staff

# Estimated Costs for Algebra 1

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ITEM	QUANTITY	COST EACH	PRICE	(RANGE)
ALGEBRA 1 6-year License	300	\$75	\$22,500	
ALGEBRA 1 Textbook	150-225	\$78.55	\$11,782 to	\$17,674
ALGEBRA 1 Teacher Edition	4	\$506	\$2,024	

TOTAL COST: \$36,306 to \$42,198

# Estimated Costs for Geometry

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ITEM	QUANTITY	COST EACH	PRICE	(RANGE)
GEOMETRY 6-year License	300	\$75	\$22,500	
GEOMETRY Textbook	150-225	\$78.55	\$11,782 to	\$17,674
GEOMETRY Teacher Edition	5	\$506	\$2,530	

TOTAL COST: \$36,812 to \$42,704

# Estimated Costs for Algebra 2

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ITEM	QUANTITY	COST EACH	PRICE	(RANGE)
ALGEBRA 2 6-year License	300	\$75	\$22,500	
ALGEBRA 2 Textbook	150-225	\$78.55	\$11,782 to	\$17,674
ALGEBRA 2 Teacher Edition	6	\$506	\$3,306	

**TOTAL COST: \$37,318 to \$43,210**



# Estimated Costs for TiNspire Calculators

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ITEM	QUANTITY	COST EACH	PRICE
Ti Nspire CX, including rechargeable batteries, cables and 39 docking stations	360	\$129.95 (\$134 w/docking stations)	\$48,240
Navigator CX Network			\$26,075
On-site custom professional development	2 days	\$1,095	\$2,190
		<b>TOTAL</b>	<b>\$76,505</b>

# Summary of Costs

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ITEM	TOTAL COST
ALGEBRA 1	\$36,306 to \$42,198
GEOMETRY	\$36,812 to \$42,704
ALGEBRA 2	\$37,318 to \$43,210
<b>TOTAL EXPENSE FOR TEXTBOOKS</b>	<b>\$110,436 to \$128,112</b>
TI NSPIRE CX	\$75,880



Thank you  
for considering our proposal  
for new resources  
for Dexter High School