

Senator Howard A. Stephenson proposes the following substitute bill:

MATH EDUCATION INITIATIVE

2009 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Howard A. Stephenson

House Sponsor: Merlynn T. Newbold

LONG TITLE

General Description:

This bill creates a program that awards grants for the improvement of math education.

Highlighted Provisions:

This bill:

- requires the Legislature to annually appropriate money to the State Board of Education for the Math Education Initiative, subject to future budget constraints;

- directs the State Board of Education to use monies appropriated for the Math Education Initiative to award grants to:

- school districts and charter schools to help pay for costs to adopt Singapore math **or other research-validated math program** ; and

- institutions of higher education or nonprofit education organizations for math teacher training programs;

- requires a school district or charter school that participates in the Math Education Initiative to:

- offer Singapore math **or other research-validated math program** in grades kindergarten through six and certain courses at

- the secondary school level; and

- provide professional development to teachers in Singapore math **or other research-validated math program** ;

- requires the State Board of Education to make rules establishing criteria for



26 awarding grants for math teacher training programs; and

27 ▶ directs the State Board of Education to:

28 • appoint an advisory committee to make recommendations regarding the
29 implementation of the Math Education Initiative; and

30 • contract with an independent, qualified evaluator, selected through a request for
31 proposals process, to evaluate the effect of instruction in Singapore math ~~H→~~ **or other research-**
31a **validated math program** ~~←H~~ on
32 student achievement.

33 **Monies Appropriated in this Bill:**

34 This bill appropriates:

35 ▶ ~~H→~~ [as an ongoing appropriation subject to future budget constraints, \$500,000]
35a **\$250,000** ~~←H~~ from the

36 Uniform School Fund for fiscal year 2009-10 ~~H→~~ **only** ~~←H~~ to the State Board of Education.

37 **Other Special Clauses:**

38 This bill provides an effective date.

39 **Utah Code Sections Affected:**

40 AMENDS:

40a ~~H→~~ **53A-17a-148, as last amended by Laws of Utah 2008, Chapter 289** ~~←H~~

41 **63I-2-253**, as last amended by Laws of Utah 2008, Second Special Session, Chapter 6

42 ENACTS:

43 **53A-13-401**, Utah Code Annotated 1953

44 **53A-13-402**, Utah Code Annotated 1953

45 **53A-13-403**, Utah Code Annotated 1953

46 **53A-13-404**, Utah Code Annotated 1953

47 **53A-13-405**, Utah Code Annotated 1953

48 **53A-13-406**, Utah Code Annotated 1953

49 **53A-13-407**, Utah Code Annotated 1953

50 **53A-13-408**, Utah Code Annotated 1953



52 *Be it enacted by the Legislature of the state of Utah:*

53 Section 1. Section **53A-13-401** is enacted to read:

54 **Part 4. Math Education Initiative**

55 **53A-13-401. Definitions.**

56 As used in this section:

57 (1) "Board" means the State Board of Education.

58 (2) "Singapore math" means the math curriculum created by the education ministry in
59 Singapore for use in Singapore schools and encompassing the textbooks, workbooks, and other
60 materials based on the math curriculum.

61 Section 2. Section **53A-13-402** is enacted to read:

62 **53A-13-402. Purposes of the Math Education Initiative -- Public-private**
63 **partnerships encouraged.**

64 (1) The Math Education Initiative is created to:

65 (a) make Utah the premier state for math education and a recognized source of skilled
66 scientists and engineers;

67 (b) meet the demand of Utah employers for workers with high math skills; and

68 (c) entice companies that require a highly skilled technical workforce to locate in the
69 state.

70 (2) The formation of public-private partnerships is encouraged to advance the purposes
71 of the Math Education Initiative.

72 Section 3. Section **53A-13-403** is enacted to read:

73 **53A-13-403. Annual appropriation for Math Education Initiative -- Use of Math**
74 **Education Initiative monies.**

75 (1) Subject to future budget constraints, the Legislature shall:

76 (a) annually appropriate money to the State Board of Education for the Math Education
77 Initiative; and

78 (b) increase appropriations for the Math Education Initiative as the state's capacity to
79 provide professional development to teachers in Singapore math ~~H~~→ or other research-validated
79a math program ←~~H~~ expands.

80 (2) From monies appropriated for the Math Education Initiative, the State Board of
81 Education shall:

82 (a) award grants to:

83 (i) school districts and charter schools to help pay for a school district's or charter
84 school's costs of adopting Singapore math ~~H~~→ or other research-validated math program ←~~H~~ as
84a provided by Section 53A-13-404; and

85 (ii) institutions of higher education or nonprofit educational organizations for math
86 teacher training programs as provided in Section 53A-13-407; and

87 (b) contract with an independent, qualified evaluator, selected through a request for

88 proposals process, to evaluate the effect of instruction in Singapore math $\hat{H}\rightarrow$ or other research-
 88a validated math program $\leftarrow\hat{H}$ on student
 89 achievement.

90 Section 4. Section **53A-13-404** is enacted to read:

91 **53A-13-404. Grants to school districts and charter schools.**

92 (1) Participation in the Math Education Initiative is voluntary for school districts and
 93 charter schools and is based on a competitive grant proposal process.

94 (2) The board may award grants of up to \$150 per student for the portion of a school
 95 district's or charter school's kindergarten through grade eight enrollment that participates in the
 96 Math Education Initiative for the first time.

97 (3) A school district or charter school may use the grant monies to pay for Singapore
 98 math $\hat{H}\rightarrow$ or other research-validated math program $\leftarrow\hat{H}$ instructional materials or professional
 98a development in teaching Singapore math $\hat{H}\rightarrow$ or other research-validated math program $\leftarrow\hat{H}$.

99 Section 5. Section **53A-13-405** is enacted to read:

100 **53A-13-405. Requirements of school districts and charter schools to participate in**
 101 **the Math Education Initiative.**

102 (1) A school district or charter school that participates in the Math Education Initiative:

103 (a) (i) shall adopt Singapore math $\hat{H}\rightarrow$ or other research-validated math program $\leftarrow\hat{H}$ for
 103a grades kindergarten through six, except as
 104 provided in Subsection (2); and

105 (ii) may adopt Singapore math $\hat{H}\rightarrow$ or other research-validated math program $\leftarrow\hat{H}$ for
 105a grades seven and eight;

106 (b) shall at the secondary school level, offer:

107 (i) honors and regular sections of algebra 1, geometry, and algebra 2, taught from a
 108 small group of high quality textbooks recommended by the State Board of Education;

109 (ii) an honors pre-calculus course that corresponds to college algebra and trigonometry
 110 at Utah higher education institutions so that high achieving students can receive college credit
 111 through concurrent enrollment; and

112 (iii) calculus and statistics courses that meet the standards for the Advanced Placement
 113 exams;

114 (c) shall administer math achievement tests at the beginning and the end of the school
 115 year; and

116 (d) shall provide professional development to teachers in Singapore math $\hat{H}\rightarrow$ or other
 116a research-validated math program $\leftarrow\hat{H}$.

117 (2) (a) A school district or charter school may phase in the adoption of Singapore math
 117a $\hat{H}\rightarrow$ or other research-validated math program $\leftarrow\hat{H}$
 118 in grades kindergarten through eight over two or more years.

119 (b) A school district may phase in the adoption of Singapore math ~~H~~→ or other research-
 119a validated math program ←~~H~~ throughout schools
 120 in the school district over two or more years.

121 (3) If a school district or charter school has insufficient enrollment in a higher level
 122 math class listed in Subsection (1)(b) to justify the cost of hiring an instructor for the class, the
 123 school district or charter school may offer the class through distance education, including
 124 interactive video conferencing or online instruction.

125 Section 6. Section **53A-13-406** is enacted to read:

126 **53A-13-406. Advisory committee.**

127 (1) The board shall appoint an advisory committee to:

128 (a) evaluate Singapore math ~~H~~→ or other research-validated math program ←~~H~~
 128a instructional materials and make recommendations to
 129 school districts and charter schools for the adoption of Singapore math ~~H~~→ or other research-
 129a validated math program ←~~H~~ instructional materials;

130 (b) make recommendations to school districts and charter schools that participate in the
 131 Math Education Initiative on professional development in math, including:

132 (i) the qualifications of individuals who provide professional development in

133 Singapore math ~~H~~→ or other research-validated math program ←~~H~~ ; and

134 (ii) the extent and content of initial and continuing professional development in

135 Singapore math ~~H~~→ or other research-validated math program ←~~H~~ ; and

136 (c) review grant proposals submitted by school districts and charter schools to adopt

137 Singapore math ~~H~~→ or other research-validated math program ←~~H~~ and make recommendations
 137a to the board on awarding grants.

138 (2) In reviewing and making recommendations to the board on grant proposals, the
 139 advisory council shall consider:

140 (a) the extent and content of professional development for teachers of Singapore math
 140a ~~H~~→ or other research-validated math program ←~~H~~ ;

141 (b) the quality of instructional materials;

142 (c) the grade seven and eight math curricula; and

143 (d) elementary and secondary math class schedules, including the number of days and
 144 hours per week each class is scheduled.

145 (3) The advisory committee appointed under Subsection (1) shall consist of five
 146 members of whom:

147 (a) three members shall be mathematicians who serve or have served as a math
 148 professor at a higher education institution in Utah that offers graduate level degrees in math;
 149 and

150 (b) two additional members shall have a high level of expertise in mathematics.

151 Section 7. Section **53A-13-407** is enacted to read:

152 **53A-13-407. Grants for math teacher training programs.**

153 (1) Subject to funding for the programs, ~~H~~→ [beginning on July 1, 2010;] ←~~H~~ the
153a board may

154 award grants to institutions of higher education or nonprofit educational organizations for
155 programs that provide training leading to a secondary education license with an endorsement in
156 mathematics for an individual who:

157 (a) is not a teacher in a public or private school;

158 (b) does not have a teaching license;

159 (c) has a bachelor's degree or higher; and

160 (d) demonstrates a high level of mathematics competency by:

161 (i) successfully completing substantial coursework in mathematics; and

162 (ii) passing a mathematics content exam.

163 (2) (a) The board shall make rules in accordance with Title 63G, Chapter 3, Utah
164 Administrative Rulemaking Act, that establish criteria for awarding grants under this section.

165 (b) In awarding grants, the board shall consider the amount or percent of matching
166 funds provided by the grant recipient.

166a ~~H~~→ **Section 8. Section 53A-17A-148 is amended to read:**

166b **53A-17a-148. Use of nonlapsing balances.**

166c **(1) As used in this section:**

166d **(a) "Education entity" means a school district, charter school, or the Utah Schools for the Deaf**
166e **and the Blind.**

166f **(b) (i) "New educator" means a person who:**

166g **(A) is an educator as defined in Section 53A-17a-153;**

166h **(B) is hired by an education entity to begin teaching during the 2008-09 school year;**

166i **(C) did not work in this state as an educator for an education entity during the 2007-08 school**
166j **year; and**

166k **(D) has never received a signing bonus in this state.**

166l **(ii) A new educator may include a person who is returning to education after one or more**
166m **years of interrupted service.**

166n **(2) The State Board of Education may use Minimum School Program nonlapsing balances to**
166o **restore special education funding as follows:**

166p **(a) up to \$902,538 is authorized in fiscal year 2005-06; and**

166q **(b) up to \$902,538 is authorized in fiscal year 2006-07.**

166r **(3) The State Board of Education shall use Minimum School Program nonlapsing balances in**
166s **fiscal year 2008-09 as follows:**

166t **(a) \$5,000,000 shall be allocated to education entities to provide one-time signing bonuses for**
166u **new educators as provided under Subsection (4), including money for the following employer-paid**
166v **benefits:**

166w **(i) retirement;**

- 166x **H→** (ii) workers' compensation;
- 166y (iii) Social Security; and
- 166z (iv) Medicare; and
- 166aa (b) \$20,000,000 shall be allocated to education entities to provide one-time performance-based
- 166ab compensation as provided under Subsection (5).
- 166ac (4) (a) Subject to the availability of funding, education entities shall provide a one-time signing
- 166ad bonus of \$1,000 to a new educator.
- 166ae (b) If the total cost of bonuses and employer-paid benefits under Subsection (4)(a) for all
- 166af education entities exceeds \$5,000,000, all bonuses shall be reduced pro rata so that the total cost does
- 166ag not exceed \$5,000,000.
- 166ah (c) To qualify for a bonus, a new educator shall:
- 166ai (i) be hired prior to October 1, 2008; and
- 166aj (ii) work for at least 90 days for the education entity.
- 166ak (5) (a) The \$20,000,000 for performance-based compensation shall be allocated to qualifying
- 166al education entities on a per pupil basis.
- 166am (b) (i) To receive an allocation under Subsection (5)(a), an education entity shall:
- 166an (A) submit, prior to July 1, 2008, a written performance-based compensation plan to the State
- 166ao Board of Education that conforms to guidelines established by the State Board of Education in rule;
- 166ap and
- 166aq (B) receive approval of the plan by the State Board of Education.
- 166ar (ii) The performance-based compensation plan shall provide specific information about how
- 166as the education entity intends to spend its allocation, including:
- 166at (A) who is eligible for the performance-based compensation;
- 166au (B) criteria for awarding performance-based compensation;
- 166av (C) the instruments or assessments that may be used to measure or evaluate performance;
- 166aw (D) the amount of performance-based compensation that may be awarded; and
- 166ax (E) whether the performance-based compensation will be based on individual, team, or
- 166ay school-based performance, or a combination of those.
- 166az (iii) The State Board of Education shall send the approved plans to the Executive
- 166ba Appropriations Committee and the Education Interim Committee by August 1, 2008 for review and
- 166bb comment.
- 166bc (c) (i) An education entity shall award performance-based compensation from monies
- 166bd distributed under this section for employee performance during the 2008-09 school year.
- 166be (ii) Performance-based compensation monies may only be used in accordance with an
- 166bf education entity's performance-based compensation plan.
- 166bg (iii) If an education entity uses performance-based compensation monies for purposes other
- 166bh than those stated in this Subsection (5) and its performance-based compensation plan, the education
- 166bi entity shall reimburse the monies that were improperly used.
- 166bj (d) An education entity that awards performance-based compensation from monies
- 166bk distributed under this section shall report the following information to the Executive Appropriations
- 166bl Committee by June 30, 2009:
- 166bm (i) the number of employees who received performance-based compensation;
- 166bn (ii) the total number of employees; ←H

- 166bo (iii) the average performance-based compensation awarded to employees; and
- 166bp (iv) the maximum performance-based compensation awarded to an employee.
- 166bq (6) The State Board of Education may make rules as necessary to administer this section, in
- 166br accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act.
- 166bs (7) In fiscal year 2009-10, the State Board of Education shall redirect the use of \$250,000 of
- 166bt Minimum School Program nonlapsing balances from the program created in Section 53A-17a-152 to
- 166bu improve mathematics achievement test scores of students in grades four through six to math teacher
- 166bv training programs as provided in Section 53A-13-409. ←H
- 167 Section H→ [8] 9 ←H . Section 53A-13-408 is enacted to read:
- 168 53A-13-408. Annual report.
- 169 (1) Through 2012, the State Board of Education shall make a report to the Education
- 170 Interim Committee after each year of instruction in Singapore math H→ or other research-
- 170a validated math program ←H in Utah schools.
- 171 (2) The report shall include an evaluation of the effect of instruction in Singapore math
- 172 H→ or other research-validated math program ←H on student achievement.
- 173 Section H→ [9] 10 ←H . Section 63I-2-253 is amended to read:
- 174 **63I-2-253. Repeal dates -- Titles 53, 53A, and 53B.**
- 175 (1) Section 53A-1-403.5 is repealed July 1, 2012.
- 176 (2) Subsection 53A-1-603(5) is repealed July 1, 2010.
- 177 (3) Title 53A, Chapter 1a, Part 10, UPSTART, is repealed July 1, 2014.
- 178 (4) Section 53A-3-702 is repealed July 1, 2008.
- 179 (5) Section 53A-6-112 is repealed July 1, 2009.
- 180 (6) Subsection 53A-13-110(3) is repealed July 1, 2013.

181 (7) Section 53A-13-408 is repealed July 1, 2013.

182 [~~7~~] (8) Section 53A-17a-152 is repealed July 1, 2010.

183 [~~8~~] (9) Section 53A-17a-162 is repealed July 1, 2012.

184 Section ~~H~~ **H** ~~10~~ **11** ~~H~~ . **Appropriation.**

185 ~~H~~ **H** ~~[As an ongoing appropriation subject to future budget constraints, there]~~ There ~~H~~

185a is appropriated

186 ~~H~~ **H** ~~[\$500,000]~~ \$250,000 ~~H~~ from the Uniform School Fund for fiscal year 2009-10 ~~H~~ **H** ~~only~~ ~~H~~

186a to the State Board of

187 Education for:

188 (1) grants to school districts and charter schools to adopt Singapore math ~~H~~ **H** ~~or other~~

188a research-validated math program ~~H~~ **H** as provided

189 in Title 53A, Chapter 13, Part 4, Math Education Initiative; and

190 (2) an evaluation of the effect of instruction in Singapore math ~~H~~ **H** ~~or other research-~~
190a validated math program ~~H~~ **H** on student achievement.

191 Section ~~H~~ **H** ~~[11]~~ **12** ~~H~~ . **Effective date.**

192 (1) Except as provided in Subsection (2), if approved by two-thirds of all the members

193 elected to each house, this bill takes effect upon approval by the governor, or the day following

194 the constitutional time limit of Utah Constitution Article VII, Section 8, without the governor's

195 signature, or in the case of a veto override.

196 (2) Uncodified Section 10, Appropriation, takes effect on July 1, 2009.

S.B. 159 1st Sub. (Green) - Math Education Initiative

Fiscal Note

2009 General Session
State of Utah

State Impact

Enactment of this bill appropriates \$500,000 in ongoing Uniform School Funds to the State Board of Education to implement the Math Education Initiative outlined in the bill.

	<u>2009</u> <u>Approp.</u>	<u>2010</u> <u>Approp.</u>	<u>2011</u> <u>Approp.</u>	<u>2009</u> <u>Revenue</u>	<u>2010</u> <u>Revenue</u>	<u>2011</u> <u>Revenue</u>
Uniform School Fund	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Total	\$0	\$500,000	\$500,000	\$0	\$0	\$0

Individual, Business and/or Local Impact

Enactment of this bill likely will not result in direct, measurable costs and/or benefits for individuals, businesses, or local governments.

