

28 schools that participate in the Math Education Initiative to demonstrate competency in math by
29 passing a test; and

- 30 • establishing criteria for awarding grants for math teacher training programs; and
- 31 ▶ directs the State Board of Education to:

32 ~~§→ [—•—adopt math curriculum standards for students who participate in the Math~~
 33 ~~Education Initiative;] ←§~~

- 34 • appoint an advisory committee to make recommendations regarding the
 35 implementation of the Math Education Initiative; and
- 36 • contract with an independent, qualified evaluator, selected through a request for
 37 proposals process, to evaluate the effect of instruction in Singapore math on
 38 student achievement.

39 **Monies Appropriated in this Bill:**

- 40 This bill appropriates:
- 41 ▶ as an ongoing appropriation subject to future budget constraints, \$1,750,000 from
 42 the Uniform School Fund for fiscal year 2009-10 to the State Board of Education.

43 **Other Special Clauses:**

44 This bill provides an effective date.

45 **Utah Code Sections Affected:**

46 AMENDS:

47 **63I-2-253**, as last amended by Laws of Utah 2008, Second Special Session, Chapter 6

48 ENACTS:

49 **53A-13-401**, Utah Code Annotated 1953

50 **53A-13-402**, Utah Code Annotated 1953

51 **53A-13-403**, Utah Code Annotated 1953

52 **53A-13-404**, Utah Code Annotated 1953

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

54 ~~§→ [—53A-13-406, Utah Code Annotated 1953] ←§~~

55 **53A-13-407**, Utah Code Annotated 1953

56 **53A-13-408**, Utah Code Annotated 1953

57 **53A-13-409**, Utah Code Annotated 1953

58 **53A-13-410**, Utah Code Annotated 1953

59

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

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

62

Part 4. Math Education Initiative

63 **53A-13-401. Definitions.**

64 As used in this section:

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

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

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

70

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

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

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

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

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

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

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

81

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

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

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

86 (b) increase appropriations for the Math Education Initiative as the state's capacity to
87 provide professional development to teachers in Singapore math expands.

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

- 90 (a) award grants to:
- 91 (i) school districts and charter schools to help pay for a school district's or charter
- 92 school's costs of adopting Singapore math as provided by Section 53A-13-404; and
- 93 (ii) institutions of higher education or nonprofit educational organizations for math
- 94 teacher training programs as provided in Section 53A-13-409; and
- 95 (b) contract with an independent, qualified evaluator, selected through a request for
- 96 proposals process, to evaluate the effect of instruction in Singapore math on student
- 97 achievement.

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

99 **53A-13-404. Grants to school districts and charter schools.**

100 (1) Participation in the Math Education Initiative is voluntary for school districts and

101 charter schools and is based on a competitive grant proposal process.

102 (2) The board may award grants of up to \$100 per student for the portion of a school

103 district's or charter school's kindergarten through grade eight enrollment that participates in the

104 Math Education Initiative for the first time.

105 (3) A school district or charter school may use the grant monies to pay for Singapore

106 math instructional materials or professional development in teaching Singapore math.

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

108 **53A-13-405. Requirements of school districts and charter schools to participate in**

109 **the Math Education Initiative.**

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

111 (a) (i) shall adopt Singapore math for grades kindergarten through six, except as

112 provided in Subsection (2); and

113 (ii) may adopt Singapore math for grades seven and eight;

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

115 (i) honors and regular sections of algebra 1, geometry, and algebra 2, taught from a

116 small group of high quality textbooks recommended by the State Board of Education;

117 (ii) an honors pre-calculus course that corresponds to Math 1050, college algebra, and

118 Math 1060, trigonometry, at Utah higher education institutions so that high achieving students

119 can receive college credit through concurrent enrollment; and

120 (iii) calculus and statistics courses that meet the standards for the Advanced Placement

121 exams;

122 (c) shall administer math achievement tests at the beginning and the end of the school
 123 year using computerized adaptive testing to students taking Singapore math classes; and

124 (d) shall provide professional development to teachers in Singapore math.

125 (2) (a) A school district or charter school may phase in the adoption of Singapore math
 126 in grades kindergarten through eight over two or more years.

127 (b) A school district may phase in the adoption of Singapore math throughout schools
 128 in the school district over two or more years.

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

133 **§→ [Section 6. Section 53A-13-406 is enacted to read:**

134 ~~53A-13-406. Math curriculum standards:~~

135 ~~(1) The State Board of Education shall adopt math curriculum standards for students~~
 136 ~~who participate in the Math Education Initiative:~~

137 ~~(2) The standards adopted pursuant to Subsection (1) shall include:~~

138 ~~(a) the Singapore 2001 elementary mathematics standards; and~~

139 ~~(b) the standards for the quick recall of arithmetic facts contained in the Curriculum~~
 140 ~~Focal Points of the National Council of Teachers of Mathematics:~~

141 ~~(3) (a) A school district or charter school shall deliver instruction to students who~~
 142 ~~participate in the Math Education Initiative in accordance with the math curriculum standards~~
 143 ~~adopted under this section:~~

144 ~~(b) A school district or charter school may deliver instruction to students who do not~~
 145 ~~participate in the Math Education Initiative in accordance with the math curriculum standards~~
 146 ~~adopted under this section in lieu of other math curriculum standards prescribed by the board.] ←§~~

147 Section **§→ [7] 6 ←§** . Section 53A-13-407 is enacted to read:

148 **53A-13-407. Math competency tests for Singapore math teachers.**

149 The board shall make rules in accordance with Title 63G, Chapter 3, Utah

150 Administrative Rulemaking Act, that require a teacher who teaches Singapore math in a school
 151 district or charter school that participates in the Math Education Initiative to demonstrate math

152 competency by passing a test as follows:

153 (1) a teacher who teaches Singapore math in grades kindergarten through three shall
154 pass a grade level six Singapore math test; and

155 (2) a teacher who teaches Singapore math in grades four through eight shall pass a
156 grade level eight Singapore math test.

157 Section 8. Section **53A-13-408** is enacted to read:

158 **53A-13-408. Advisory committee.**

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

160 (a) evaluate Singapore math instructional materials and make recommendations to
161 school districts and charter schools for the adoption of Singapore math instructional materials;

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

164 (i) the qualifications of individuals who provide professional development in
165 Singapore math; and

166 (ii) the extent and content of initial and continuing professional development in
167 Singapore math;

168 (c) review grant proposals submitted by school districts and charter schools to adopt
169 Singapore math and make recommendations to the board on awarding grants; and

170 (d) review and make recommendations to the board on the math competency tests for
171 teachers required by Section 53A-13-407.

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

174 (a) the extent and content of professional development for teachers of Singapore math;

175 (b) the quality of instructional materials;

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

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

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

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

183 and

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

185 Section 9. Section **53A-13-409** is enacted to read:

186 **53A-13-409. Grants for math teacher training programs.**

187 (1) The board may award grants to institutions of higher education or nonprofit
188 educational organizations for programs that provide training leading to a secondary education
189 license with an endorsement in mathematics for an individual who:

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

191 (b) does not have a teaching license;

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

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

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

195 (ii) passing a mathematics content exam.

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

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

200 Section 10. Section **53A-13-410** is enacted to read:

201 **53A-13-410. Annual report.**

202 (1) Through 2012, the State Board of Education shall make a report to the Education
203 Interim Committee after each year of instruction in Singapore math in Utah schools.

204 (2) The report shall include an evaluation of the effect of instruction in Singapore math
205 on student achievement.

206 Section 11. Section **63I-2-253** is amended to read:

207 **63I-2-253. Repeal dates -- Titles 53, 53A, and 53B.**

208 (1) Section 53A-1-403.5 is repealed July 1, 2012.

209 (2) Subsection 53A-1-603(5) is repealed July 1, 2010.

210 (3) Title 53A, Chapter 1a, Part 10, UPSTART, is repealed July 1, 2014.

211 (4) Section 53A-3-702 is repealed July 1, 2008.

212 (5) Section 53A-6-112 is repealed July 1, 2009.

213 (6) Subsection 53A-13-110(3) is repealed July 1, 2013.

214 (7) Section 53A-13-410 is repealed July 1, 2013.
215 [~~7~~] (8) Section 53A-17a-152 is repealed July 1, 2010.
216 [~~8~~] (9) Section 53A-17a-162 is repealed July 1, 2012.

217 **Section 12. Appropriation.**

218 (1) As an ongoing appropriation subject to future budget constraints, there is
219 appropriated \$1,750,000 from the Uniform School Fund for fiscal year 2009-10 to the State
220 Board of Education for the Math Education Initiative created in Title 53A, Chapter 13, Part 4,
221 Math Education Initiative.

222 (2) Of the monies appropriated in Subsection (1), the State Board of Education may
223 use:

224 (a) \$1,000,000 to:

225 (i) award grants to school districts and charter schools to adopt Singapore math; and
226 (ii) contract with an independent, qualified evaluator, selected through a request for
227 proposals process, to evaluate the effect of instruction in Singapore math on student
228 achievement; and

229 (b) \$750,000 to award grants for math teacher training programs as provided in Section
230 53A-13-409.

231 **Section 13. Effective date.**

232 (1) Except as provided in Subsection (2), if approved by two-thirds of all the members
233 elected to each house, this bill takes effect upon approval by the governor, or the day following
234 the constitutional time limit of Utah Constitution Article VII, Section 8, without the governor's
235 signature, or in the case of a veto override.

236 (2) Uncodified Section 12, Appropriation, takes effect on July 1, 2009.

Legislative Review Note
as of 2-2-09 5:34 PM

Office of Legislative Research and General Counsel

S.B. 159 - Math Education Initiative

Fiscal Note

2009 General Session
State of Utah

State Impact

Enactment of this bill appropriates \$1,750,000 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	\$1,750,000	\$1,750,000	\$0	\$0	\$0
Total	\$0	\$1,750,000	\$1,750,000	\$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.