

111TH CONGRESS  
1ST SESSION

# H. R. 3950

To amend provisions of the Elementary and Secondary Education Act of 1965 relating to mathematics and science instruction.

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## IN THE HOUSE OF REPRESENTATIVES

OCTOBER 28, 2009

Mr. EHLERS (for himself, Ms. MATSUI, and Mr. BARTLETT) introduced the following bill; which was referred to the Committee on Education and Labor

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## A BILL

To amend provisions of the Elementary and Secondary Education Act of 1965 relating to mathematics and science instruction.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

3       **SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “Improving Mathe-  
5       matics and Science Teacher Quality Act”.

6       **SEC. 2. PARTNERSHIPS FOR MATHEMATICS AND SCIENCE**  
7                               **TEACHER QUALITY IMPROVEMENT.**

8       (a) SUBPART HEADING.—The heading for part B of  
9       title II of the Elementary and Secondary Education Act  
10      of 1965 is amended to read as follows:

1 “PART B—PARTNERSHIPS FOR MATHEMATICS AND  
2 SCIENCE TEACHER QUALITY IMPROVEMENT”.

3 (b) PURPOSE; DEFINITIONS.—

4 (1) PURPOSE.—Subsection (a) of section 2201  
5 such Act (20 U.S.C. 2201(a)) is amended—

6 (A) in the matter preceding paragraph (1),  
7 by inserting “businesses, informal science edu-  
8 cation centers,” after “higher education,”;

9 (B) in paragraph (3), by inserting “and in-  
10 formal science education centers” after “higher  
11 education”;

12 (C) at the end of paragraph (4), by strik-  
13 ing “and”;

14 (D) at the end of paragraph (5), by strik-  
15 ing the period and inserting “; and”; and

16 (E) by adding at the end the following:

17 “(6) replicate and apply the effectiveness of  
18 model mathematics and science professional develop-  
19 ment programs on a broader level.”.

20 (2) DEFINITIONS.—Subsection (b) of such sec-  
21 tion is amended—

22 (A) in paragraph (1)(A)—

23 (i) in clause (ii), by striking “and” at  
24 the end;

1 (ii) by striking clause (i) and redesignig-  
2 nating clause (ii) as clause (i);

3 (iii) by inserting after clause (i) (as so  
4 redesignated) the following:

5 “(ii) a teacher training department of  
6 an institution of higher education; and”.

7 (B) in paragraph (1)(B)(i), by striking  
8 “science, or teacher training” and inserting “or  
9 science”;

10 (C) in paragraph (1)(B)(iii), before the  
11 semicolon insert “or a consortium of busi-  
12 nesses”;

13 (D) in paragraph (1)(B)(iv), after “organi-  
14 zation” insert “, including an informal science  
15 education center,”; and

16 (E) by adding at the end the following:

17 “(3) MATHEMATICS AND SCIENCE TEACHER.—  
18 The term ‘mathematics and science teacher’ means  
19 a mathematics, science, or technology teacher at the  
20 elementary school or secondary school level.

21 “(4) SCIENCE.—The term ‘science’, in the con-  
22 text of elementary and secondary education, includes  
23 technology and pre-engineering.”.

1 **SEC. 3. GRANTS FOR PARTNERSHIPS FOR MATHEMATICS**  
2 **AND SCIENCE TEACHER QUALITY IMPROVE-**  
3 **MENT.**

4 (a) SECTION HEADING.—The section heading for  
5 section 2202 of the Elementary and Secondary Education  
6 Act of 1965 (20 U.S.C. 6662) is amended to read as fol-  
7 lows:

8 **“SEC. 2202. GRANTS FOR PARTNERSHIPS FOR MATHE-**  
9 **MATICS AND SCIENCE TEACHER QUALITY IM-**  
10 **PROVEMENT.”.**

11 (b) GRANTS.—Subsection (a) of such section is  
12 amended—

13 (1) by striking paragraph (1) and redesignating  
14 paragraphs (2), (3), and (4) as paragraphs (1), (2),  
15 and (3), respectively; and

16 (2) in paragraph (1) (as so redesignated)—

17 (A) by amending subparagraph (A) to read  
18 as follows:

19 “(A) IN GENERAL.—The Secretary is au-  
20 thorized to award grants to State educational  
21 agencies to enable such agencies to award sub-  
22 grants, on a competitive basis, to eligible part-  
23 nerships to carry out the authorized activities  
24 described in subsection (d).”; and

1           (B) by striking “subparagraph (A)(i)” in  
2           subparagraph (B) and inserting “subsection  
3           (f)(3)”.

4           (c) APPLICATION REQUIREMENTS.—Subsection (b)  
5 of such section is amended—

6           (1) by amending paragraph (1) to read as fol-  
7           lows:

8           “(1) IN GENERAL.—Each eligible partnership  
9           desiring a subgrant under this part shall submit an  
10          application to the State educational agency, at such  
11          time, in such manner, and accompanied by such in-  
12          formation as the State educational agency may re-  
13          quire.”;

14          (2) by amending paragraph (2)(C) to read as  
15          follows:

16               “(C) a description of how the activities to  
17               be carried out by the eligible partnership will be  
18               based on a review of scientifically based re-  
19               search or modeled after programs identified by  
20               the Secretary, in consultation with the Director  
21               of the National Science Foundation, to be rep-  
22               licated on a more expansive basis, and an expla-  
23               nation of how the activities are expected to im-  
24               prove student academic achievement and

1 strengthen the quality of mathematics and  
2 science instruction;” and

3 (3) in paragraph (2)(D)—

4 (A) by striking “subsection (c)” in clause  
5 (i) and inserting “subsection (d)”; and

6 (B) by striking “subsection (e)” in clause  
7 (ii) and inserting “subsection (f)”.

8 (d) PRIORITY.—Such section 2202 is amended by re-  
9 designating subsections (c), (d), (e), and (f) as subsections  
10 (d), (e), (f), and (g), respectively, and by inserting after  
11 subsection (b) the following new subsection:

12 “(c) PRIORITY.—In awarding grants under this part,  
13 a State educational agency shall give priority to eligible  
14 partnerships that carry out activities modeled after pro-  
15 grams identified by the Secretary, in consultation and co-  
16 ordination with the Director of the National Science Foun-  
17 dation, to be replicated on a more expansive basis.”.

18 (e) AUTHORIZED ACTIVITIES.—Subsection (d) of  
19 such section (as so redesignated) is amended—

20 (1) by inserting before the period at the end of  
21 paragraph (1) the following: “, including activities to  
22 replicate model math and science professional devel-  
23 opment programs”;

24 (2) by striking paragraphs (4), (5), and (10)  
25 and redesignating paragraphs (6), (7), (8), and (9)

1 as paragraphs (4), (5), (6), and (7), respectively;  
2 and

3 (3) in paragraph (5) (as so redesignated), by  
4 inserting “, such as an exemplary teacher (as de-  
5 fined in section 9109) or a building leader” after  
6 “teacher”.

7 (f) NATIONAL SCIENCE FOUNDATION.—Subsection  
8 (e)(2) of such section (as so redesignated) is amended to  
9 read as follows:

10 “(2) NATIONAL SCIENCE FOUNDATION.—In  
11 carrying out the activities authorized by this part,  
12 the Secretary shall—

13 “(A) consult and coordinate with the Di-  
14 rector of the National Science Foundation, par-  
15 ticularly with respect to the appropriate roles  
16 for the Department and the Foundation in the  
17 conduct of summer workshops, institutes, or  
18 partnerships to improve mathematics and  
19 science teaching in elementary schools and sec-  
20 ondary schools;

21 “(B) collaborate with the Director of the  
22 National Science Foundation to make widely  
23 available, including through dissemination on  
24 the Internet and to all State educational agen-  
25 cies and other recipients of funds under this

1 part, information on model programs identified  
2 by the Director of the National Science Foun-  
3 dation to be replicated on a more expansive  
4 basis; and

5 “(C) in collaboration with the Director of  
6 the National Science Foundation, hold an an-  
7 nual summit with partnership grantees from  
8 this part and from the National Science Foun-  
9 dation’s Mathematics and Science Partnership  
10 program to review the progress and results of  
11 awarded grants.”.

12 (g) EVALUATION AND ACCOUNTABILITY PLAN.—  
13 Subsection (f) of such section (as so redesignated) is  
14 amended—

15 (1) in paragraph (1), by striking “an evalua-  
16 tion” and inserting “a scientifically valid and rig-  
17 orous evaluation”; and

18 (2) by adding at the end the following:

19 “(3) TRAINING AND TECHNICAL ASSISTANCE.—  
20 The Secretary shall reserve one-half of one percent  
21 of the funding authorized under this part to provide  
22 training and technical assistance to eligible partner-  
23 ships in conducting a scientifically valid and rigorous  
24 evaluation to measure the impact of activities funded  
25 under this part.”.



1 (h) REPORT.—Subsection (g) of such section (as so  
2 redesignated) is amended—

3 (1) by striking “subsection (e)” and inserting  
4 “subsection (f)”; and

5 (2) by adding at the end the following: “The  
6 Secretary shall place this report on the Depart-  
7 ment’s Web site.”.

8 **SEC. 4. AUTHORIZATION OF APPROPRIATIONS.**

9 (a) GRANTS TO STATES, LOCAL EDUCATIONAL  
10 AGENCIES, AND ELIGIBLE PARTNERSHIPS.—Subsection  
11 (a) of section 2103 of the Elementary and Secondary Edu-  
12 cation Act of 1965 (20 U.S.C. 6603) is amended to read  
13 as follows:

14 “(a) GRANTS TO STATES, LOCAL EDUCATIONAL  
15 AGENCIES, AND ELIGIBLE PARTNERSHIPS.—

16 “(1) IN GENERAL.—There are authorized to be  
17 appropriated to carry out this part (other than sub-  
18 part 5) and part B such sums as may be necessary  
19 for fiscal year 2010 and for each of the 5 succeeding  
20 fiscal years.

21 “(2) RESERVATION.—From the funds appro-  
22 priated under paragraph (1), the Secretary shall re-  
23 serve not less than 15 nor more than 20 percent to  
24 carry out part B.”.

1           (b) NATIONAL PROGRAMS.—Subsection (b) of such  
2 section is amended by striking “2002” and inserting  
3 “2010”.

4           (c) CONFORMING AMENDMENT.—Section 2203 of  
5 such Act is repealed.

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