
SENATE BILL 5814

State of Washington

60th Legislature

2007 Regular Session

By Senators McAuliffe, Hobbs, Rasmussen, Kauffman, Eide, Kohl-Welles, Murray, Marr, Spanel, Shin, Oemig, Kilmer and Delvin

Read first time 02/01/2007. Referred to Committee on Early Learning & K-12 Education.

1 AN ACT Relating to educational opportunities in mathematics,
2 science, and technology; amending RCW 28A.230.130 and 28A.230.130;
3 adding new sections to chapter 28A.300 RCW; adding a new section to
4 chapter 28A.415 RCW; adding a new section to chapter 28A.650 RCW;
5 adding a new section to chapter 28A.655 RCW; adding a new section to
6 chapter 28B.76 RCW; creating a new section; providing an effective
7 date; and providing an expiration date.

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

9 NEW SECTION. **Sec. 1.** The legislature finds that knowledge,
10 skills, and opportunities in mathematics, science, and technology
11 should be increased for all students in Washington. The legislature
12 intends to embark on a comprehensive approach to foster capacity
13 between and among the educational sectors to enable continuous and
14 sustainable growth of the learning and teaching of mathematics,
15 science, and technologies. The legislature intends to foster high
16 quality mathematics, science, and technology programs to increase the
17 number of students in the kindergarten through twelfth grade pipeline
18 who are prepared and aspire to continue in the areas of mathematics,

1 science, and technology, whether it be at a college, university, or in
2 the workforce.

3 **Sec. 2.** RCW 28A.230.130 and 2003 c 49 s 2 are each amended to read
4 as follows:

5 (1) All public high schools of the state shall provide a program,
6 directly or in cooperation with a community college or another school
7 district, for students whose educational plans include application for
8 entrance to a baccalaureate-granting institution after being granted a
9 high school diploma. The program shall help these students to meet at
10 least the minimum entrance requirements under RCW 28B.10.050.

11 (2) All public high schools of the state shall provide a program,
12 directly or in cooperation with a community or technical college, a
13 skills center, an apprenticeship committee, or another school district,
14 for students who plan to pursue career or work opportunities other than
15 entrance to a baccalaureate-granting institution after being granted a
16 high school diploma. These programs may:

17 (a) Help students demonstrate the application of essential academic
18 learning requirements to the world of work, occupation-specific skills,
19 knowledge of more than one career in a chosen pathway, and
20 employability and leadership skills; and

21 (b) Help students demonstrate the knowledge and skill needed to
22 prepare for industry certification, and/or have the opportunity to
23 articulate to postsecondary education and training programs.

24 (3) A middle school that receives approval from the office of the
25 superintendent of public instruction to provide a career and technical
26 program directly to students shall receive funding at the same rate as
27 a high school operating a similar program.

28 (4) The state board of education, upon request from local school
29 districts, may grant waivers from the requirements to provide the
30 program described in subsections (1) and (2) of this section for
31 reasons relating to school district size and the availability of staff
32 authorized to teach subjects which must be provided. In considering
33 waiver requests related to programs in subsection (2) of this section,
34 the state board of education shall consider the extent to which the
35 school district has offered such programs before the 2003-04 school
36 year.

1 **Sec. 3.** RCW 28A.230.130 and 2006 c 263 s 407 are each amended to
2 read as follows:

3 (1) All public high schools of the state shall provide a program,
4 directly or in cooperation with a community college or another school
5 district, for students whose educational plans include application for
6 entrance to a baccalaureate-granting institution after being granted a
7 high school diploma. The program shall help these students to meet at
8 least the minimum entrance requirements under RCW 28B.10.050.

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16 learning requirements to the world of work, occupation-specific skills,
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18 employability and leadership skills; and

19 (b) Help students demonstrate the knowledge and skill needed to
20 prepare for industry certification, and/or have the opportunity to
21 articulate to postsecondary education and training programs.

22 (3) A middle school that receives approval from the office of the
23 superintendent of public instruction to provide a career and technical
24 program directly to students shall receive funding at the same rate as
25 a high school operating a similar program.

26 NEW SECTION. **Sec. 4.** A new section is added to chapter 28A.300
27 RCW to read as follows:

28 In an effort to increase precollege and prework interest in math,
29 science, and technology fields, the center for the improvement of
30 student learning within the office of the superintendent of public
31 instruction, in collaboration with the community and technical
32 colleges, the four-year institutions of higher education, and the
33 workforce training and education coordinating board, shall conduct
34 outreach efforts to attract middle and high school students to careers
35 in math, science, and technology and to educate students about the
36 coursework that is necessary to be adequately prepared to succeed in
37 these fields.

1 NEW SECTION. **Sec. 5.** A new section is added to chapter 28A.300
2 RCW to read as follows:

3 (1) Subject to the availability of funds, the superintendent of
4 public instruction shall obtain a statewide license, or otherwise
5 obtain and disseminate, an interactive, project-based high school and
6 middle school technology curriculum that includes a comprehensive
7 professional development component for teachers and, if possible,
8 counselors, and also includes a systematic program evaluation.

9 (2) The curriculum must be distributed to all school districts, or
10 as many as feasible, by the 2007-08 school year.

11 (3) Subject to the availability of funds, the superintendent of
12 public instruction shall award grants to one hundred school teams to
13 participate in the professional development training during the summer
14 of 2007 and one hundred school teams to participate during the summer
15 of 2008. School teams shall be comprised of, at a minimum, a teacher,
16 who could be a career and technical teacher, and a counselor.

17 (4) By December 1, 2009, the office of the superintendent of public
18 instruction must report to the legislature on the program's impact on
19 student performance.

20 NEW SECTION. **Sec. 6.** A new section is added to chapter 28A.300
21 RCW to read as follows:

22 The superintendent of public instruction shall provide support for
23 statewide coordination for math, science, and technology, including
24 employing a statewide director for math, science, and technology. The
25 duties of the director shall include, but not be limited to:

26 (1) Reviewing integrated math, science, technology, and engineering
27 curriculum and programs, introducing curriculum to school districts,
28 and evaluating methods to facilitate the implementation of successful
29 curriculum and programs in every school district that is interested in
30 participating;

31 (2) Subject to available funds, supporting a public-private
32 partnership to assist school districts with implementing an ongoing,
33 inquiry-based science program that is based on a research-based model
34 of systemic reform and aligned with the Washington state science grade
35 level expectations;

36 (3) Subject to available funds, supporting a public-private
37 partnership to provide enriching opportunities in mathematics,

1 engineering, and science for underrepresented students in grades
2 kindergarten through twelve using exemplary materials and instructional
3 approaches;

4 (4) Coordinating youth opportunities in math, science, and
5 technology, including facilitating student participation in school
6 clubs, state-level fairs, national competitions, and encouraging
7 partnerships between students and university faculty or industry to
8 facilitate such student participation;

9 (5) Developing and maintaining public-private partnerships to
10 generate business and industry assistance to accomplish the following:

11 (a) Increasing student engagement and career awareness, including
12 increasing student participation in the youth opportunities in
13 subsection (4) of this section;

14 (b) Creation and promotion of student scholarships, internships,
15 and apprenticeships;

16 (c) Provision of relevant teacher experience and training,
17 including on-the-job professional development opportunities;

18 (d) Upgrading kindergarten through twelfth grade school equipment
19 and facilities to support high quality math, science, and technology
20 programs;

21 (6) Assembling a cadre of inspiring speakers employed or
22 experienced in the relevant fields to speak to kindergarten through
23 twelfth grade students to demonstrate the breadth of the opportunities
24 in the relevant fields as well as share the types of coursework that is
25 necessary for someone to be successful in the relevant field;

26 (7) Providing technical assistance to schools and school districts,
27 including working with counselors in support of the math, science, and
28 technology programs; and

29 (8) Reporting annually to the legislature about the actions taken
30 to provide statewide coordination for math, science, and technology.

31 NEW SECTION. **Sec. 7.** A new section is added to chapter 28A.415
32 RCW to read as follows:

33 (1) Subject to available funding, a mathematics and science
34 instructional coaches demonstration project is created. The project
35 shall be in place for the 2007-08 and 2008-09 school years. Funding
36 shall be used to provide grants to schools and districts to provide
37 salaries, benefits, and professional development activities to

1 instructional coaches in middle and high school mathematics and
2 science. Each instructional coach shall receive five days of training
3 at a coaching institute before being assigned to serve two schools
4 each. These coaches shall attend meetings during the year to further
5 their training and assist with coordinating statewide training in
6 mathematics and science.

7 (2) Subject to available funding, the Washington state institute
8 for public policy shall evaluate the effectiveness of the demonstration
9 projects and report its findings to the legislature by December 1,
10 2009.

11 NEW SECTION. **Sec. 8.** A new section is added to chapter 28A.650
12 RCW to read as follows:

13 (1) The legislature shall annually provide state funds to school
14 districts in the amount of two hundred fifty dollars per each full-time
15 equivalent student attending a public school within the school district
16 to be used for the following purposes:

- 17 (a) The purchase, lease, and maintenance of computers;
- 18 (b) The purchase or upgrade of software including operating
19 systems, productivity suites, and other essential software that give
20 computers basic functionality;
- 21 (c) The purchase of networking equipment, printers, copiers, and
22 their supplies; and
- 23 (d) The purchase and upgrade of instructional software, including
24 one-time purchases and subscriptions, and additional hardware that
25 enhances the instructional environment.

26 (2) To be eligible to receive funding under this section, school
27 districts shall submit a proposal for the use of funds to the office of
28 the superintendent of public instruction. The superintendent of public
29 instruction shall develop criteria for the approval of the proposals.
30 The superintendent shall provide technical assistance to those
31 districts that need assistance to gain approval of the district
32 proposal.

33 NEW SECTION. **Sec. 9.** A new section is added to chapter 28A.655
34 RCW to read as follows:

35 (1) Subject to available funding, by December 1, 2008, the
36 superintendent of public instruction shall develop essential academic

1 learning requirements and grade level expectations for educational
2 technology literacy and technology fluency that identify the knowledge
3 and skills that all public school students need to know and be able to
4 do in the areas of technology and technology literacy. The development
5 process shall include a review of current standards that have been
6 developed or are used by other states and national and international
7 technology associations. To the maximum extent possible, the
8 superintendent shall integrate goal four and the knowledge and skill
9 areas in the other goals in the technology essential academic learning
10 requirements.

11 (a) As used in this section, "technology literacy" means the
12 ability to responsibly, creatively, and effectively use appropriate
13 technology to communicate; access, collect, manage, integrate, and
14 evaluate information; solve problems and create solutions; build and
15 share knowledge; and improve and enhance learning in all subject areas
16 and experiences.

17 (b) Technology fluency builds upon technology literacy and is
18 demonstrated when students: Apply technology to real-world
19 experiences; adapt to changing technologies; modify current and create
20 new technologies; and personalize technology to meet personal needs,
21 interests, and learning styles.

22 (2)(a) Subject to available funding, the superintendent shall
23 obtain or develop education technology assessments that may be
24 administered in the elementary, middle, and high school grades to
25 assess the essential academic learning requirements for technology.
26 The assessments shall be designed to be classroom or project-based so
27 that they can be embedded in classroom instruction and be administered
28 and scored by school staff throughout the regular school year using
29 consistent scoring criteria and procedures. By the 2010-11 school
30 year, these assessments shall be made available to school districts for
31 the districts' voluntary use. If a school district uses the
32 assessments created under this section, then the school district shall
33 notify the superintendent of public instruction of the use. The
34 superintendent shall report annually to the legislature on the number
35 of school districts that use the assessments each school year.

36 (b) Beginning December 1, 2010, and annually thereafter, the
37 superintendent of public instruction shall provide a report to the
38 relevant legislative committees regarding the use of the assessments.

1 NEW SECTION. **Sec. 10.** A new section is added to chapter 28B.76
2 RCW to read as follows:

3 As part of the state needs assessment process conducted by the
4 board in accordance with RCW 28B.76.230, the board shall assess the
5 need for additional baccalaureate degree programs in Washington that
6 specialize in teacher preparation in mathematics, science, and
7 technology. If the board determines that there is a need for
8 additional programs, then the board shall encourage the appropriate
9 institutions of higher education or institutional sectors to create
10 such a program.

11 NEW SECTION. **Sec. 11.** Section 2 of this act expires September 1,
12 2009.

13 NEW SECTION. **Sec. 12.** Section 3 of this act takes effect
14 September 1, 2009.

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