
SUBSTITUTE SENATE BILL 5814

State of Washington

60th Legislature

2007 Regular Session

By Senate Committee on Early Learning & K-12 Education (originally sponsored by Senators McAuliffe, Hobbs, Rasmussen, Kauffman, Eide, Kohl-Welles, Murray, Marr, Spanel, Shin, Oemig, Kilmer and Delvin)

READ FIRST TIME 02/28/07.

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

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

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

1 **Sec. 2.** RCW 28A.230.130 and 2003 c 49 s 2 are each amended to read
2 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.

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

15 (a) Help students demonstrate the application of essential academic
16 learning requirements to the world of work, occupation-specific skills,
17 knowledge of more than one career in a chosen pathway, and
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. Additionally, a middle
26 school that provides a hands-on experience in math and science with an
27 integrated curriculum of academic content and career and technical
28 education, and includes a career and technical education exploratory
29 component shall also qualify for the career and technical education
30 funding.

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

1 school district has offered such programs before the 2003-04 school
2 year.

3 **Sec. 3.** RCW 28A.230.130 and 2006 c 263 s 407 are each amended to
4 read 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.

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15 entrance to a baccalaureate-granting institution after being granted a
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18 learning requirements to the world of work, occupation-specific skills,
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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. Additionally, a middle
28 school that provides a hands-on experience in math and science with an
29 integrated curriculum of academic content and career and technical
30 education, and includes a career and technical education exploratory
31 component shall also qualify for the career and technical education
32 funding.

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

35 The superintendent of public instruction shall provide support for

1 statewide coordination for math, science, and technology, including
2 employing a statewide director for math, science, and technology. The
3 duties of the director shall include, but not be limited to:

4 (1) Subject to the availability of funds, obtain a statewide
5 license, or otherwise obtain and disseminate, an interactive, project-
6 based high school and middle school technology curriculum that includes
7 a comprehensive professional development component for teachers and, if
8 possible, counselors, and also includes a systematic program
9 evaluation. The curriculum must be distributed to all school
10 districts, or as many as feasible, by the 2007-08 school year;

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

16 (3) Subject to available funds, supporting a public-private
17 partnership to provide enriching opportunities in mathematics,
18 engineering, and science for underrepresented students in grades
19 kindergarten through twelve using exemplary materials and instructional
20 approaches;

21 (4) In an effort to increase precollege and prework interest in
22 math, science, and technology fields, in collaboration with the
23 community and technical colleges, the four-year institutions of higher
24 education, and the workforce training and education coordinating board,
25 conducting outreach efforts to attract middle and high school students
26 to careers in math, science, and technology and to educate students
27 about the coursework that is necessary to be adequately prepared to
28 succeed in these fields;

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

34 (6) Developing and maintaining public-private partnerships to
35 generate business and industry assistance to accomplish the following:

36 (a) Increasing student engagement and career awareness, including
37 increasing student participation in the youth opportunities in
38 subsection (5) of this section;

1 (b) Creation and promotion of student scholarships, internships,
2 and apprenticeships;

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

5 (d) Upgrading kindergarten through twelfth grade school equipment
6 and facilities to support high quality math, science, and technology
7 programs;

8 (7) Assembling a cadre of inspiring speakers employed or
9 experienced in the relevant fields to speak to kindergarten through
10 twelfth grade students to demonstrate the breadth of the opportunities
11 in the relevant fields as well as share the types of coursework that is
12 necessary for someone to be successful in the relevant field;

13 (8) Providing technical assistance to schools and school districts,
14 including working with counselors in support of the math, science, and
15 technology programs; and

16 (9) Reporting annually to the legislature about the actions taken
17 to provide statewide coordination for math, science, and technology.

18 NEW SECTION. **Sec. 5.** A new section is added to chapter 28A.655
19 RCW to read as follows:

20 (1) Subject to available funding, by December 1, 2008, the
21 superintendent of public instruction shall develop essential academic
22 learning requirements and grade level expectations for educational
23 technology literacy and technology fluency that identify the knowledge
24 and skills that all public school students need to know and be able to
25 do in the areas of technology and technology literacy. The development
26 process shall include a review of current standards that have been
27 developed or are used by other states and national and international
28 technology associations. To the maximum extent possible, the
29 superintendent shall integrate goal four and the knowledge and skill
30 areas in the other goals in the technology essential academic learning
31 requirements.

32 (a) As used in this section, "technology literacy" means the
33 ability to responsibly, creatively, and effectively use appropriate
34 technology to communicate; access, collect, manage, integrate, and
35 evaluate information; solve problems and create solutions; build and
36 share knowledge; and improve and enhance learning in all subject areas
37 and experiences.

1 (b) Technology fluency builds upon technology literacy and is
2 demonstrated when students: Apply technology to real-world
3 experiences; adapt to changing technologies; modify current and create
4 new technologies; and personalize technology to meet personal needs,
5 interests, and learning styles.

6 (2)(a) Subject to available funding, the superintendent shall
7 obtain or develop education technology assessments that may be
8 administered in the elementary, middle, and high school grades to
9 assess the essential academic learning requirements for technology.
10 The assessments shall be designed to be classroom or project-based so
11 that they can be embedded in classroom instruction and be administered
12 and scored by school staff throughout the regular school year using
13 consistent scoring criteria and procedures. By the 2010-11 school
14 year, these assessments shall be made available to school districts for
15 the districts' voluntary use. If a school district uses the
16 assessments created under this section, then the school district shall
17 notify the superintendent of public instruction of the use. The
18 superintendent shall report annually to the legislature on the number
19 of school districts that use the assessments each school year.

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

23 NEW SECTION. **Sec. 6.** A new section is added to chapter 28B.76 RCW
24 to read as follows:

25 As part of the state needs assessment process conducted by the
26 board in accordance with RCW 28B.76.230, the board shall assess the
27 need for additional baccalaureate degree programs in Washington that
28 specialize in teacher preparation in mathematics, science, and
29 technology. If the board determines that there is a need for
30 additional programs, then the board shall encourage the appropriate
31 institutions of higher education or institutional sectors to create
32 such a program.

33 NEW SECTION. **Sec. 7.** Section 2 of this act expires September 1,
34 2009.

1 NEW SECTION. **Sec. 8.** Section 3 of this act takes effect September
2 1, 2009.

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