

CERTIFICATION OF ENROLLMENT

**SECOND SUBSTITUTE HOUSE BILL 1906**

Chapter 396, Laws of 2007

60th Legislature  
2007 Regular Session

MATHEMATICS AND SCIENCE EDUCATION

EFFECTIVE DATE: 07/22/07 - Except section 14, which becomes effective 09/01/09; and sections 1 and 2, which become effective 05/09/07.

Passed by the House April 17, 2007  
Yeas 96 Nays 2

FRANK CHOPP

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**Speaker of the House of Representatives**

Passed by the Senate April 11, 2007  
Yeas 37 Nays 12

BRAD OWEN

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**President of the Senate**

Approved May 9, 2007, 9:52 a.m.

CHRISTINE GREGOIRE

\_\_\_\_\_  
**Governor of the State of Washington**

CERTIFICATE

I, Richard Nafziger, Chief Clerk of the House of Representatives of the State of Washington, do hereby certify that the attached is **SECOND SUBSTITUTE HOUSE BILL 1906** as passed by the House of Representatives and the Senate on the dates hereon set forth.

RICHARD NAFZIGER

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**Chief Clerk**

FILED

May 11, 2007

**Secretary of State  
State of Washington**

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SECOND SUBSTITUTE HOUSE BILL 1906

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AS AMENDED BY THE SENATE

Passed Legislature - 2007 Regular Session

State of Washington                      60th Legislature                      2007 Regular Session

By House Committee on Appropriations (originally sponsored by Representatives Hunter, Anderson, Wallace, Seaquist, Eddy, P. Sullivan, McDermott, Ormsby, McIntire, Pedersen, Rolfes, Barlow, Goodman, Rodne, O'Brien, Kenney, McDonald, Morrell, Newhouse, Hurst, Skinner, Wood and Bailey)

READ FIRST TIME 03/28/07.

1            AN ACT Relating to improving mathematics and science education;  
2 amending RCW 28A.660.005, 28A.660.050, 28B.102.080, 28A.230.130, and  
3 28A.230.130; adding new sections to chapter 28A.305 RCW; adding new  
4 sections to chapter 28A.300 RCW; adding a new section to chapter  
5 28A.415 RCW; adding new sections to chapter 28A.660 RCW; adding a new  
6 section to chapter 28B.10 RCW; adding a new section to chapter 28A.320  
7 RCW; adding a new section to chapter 28A.655 RCW; adding a new section  
8 to chapter 28B.76 RCW; creating new sections; providing an effective  
9 date; providing expiration dates; and declaring an emergency.

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

11            NEW SECTION.    **Sec. 1.** A new section is added to chapter 28A.305  
12 RCW to read as follows:

13            MATHEMATICS AND SCIENCE STANDARDS AND CURRICULUM.    (1) The  
14 activities in this section revise and strengthen the state learning  
15 standards that implement the goals of RCW 28A.150.210, known as the  
16 essential academic learning requirements, and improve alignment of  
17 school district curriculum to the standards.

18            (2) The state board of education shall be assisted in its work  
19 under subsections (3) and (5) of this section by:    (a) An expert

1 national consultant in each of mathematics and science retained by the  
2 state board; and (b) the mathematics and science advisory panels  
3 created under section 2 of this act, as appropriate, which shall  
4 provide review and formal comment on proposed recommendations to the  
5 superintendent of public instruction and the state board of education  
6 on new revised standards and curricula.

7 (3) By September 30, 2007, the state board of education shall  
8 recommend to the superintendent of public instruction revised essential  
9 academic learning requirements and grade level expectations in  
10 mathematics. The recommendations shall be based on:

11 (a) Considerations of clarity, rigor, content, depth, coherence  
12 from grade to grade, specificity, accessibility, and measurability;

13 (b) Study of:

14 (i) Standards used in countries whose students demonstrate high  
15 performance on the trends in international mathematics and science  
16 study and the programme for international student assessment;

17 (ii) College readiness standards;

18 (iii) The national council of teachers of mathematics focal points  
19 and the national assessment of educational progress content frameworks;  
20 and

21 (iv) Standards used by three to five other states, including  
22 California, and the nation of Singapore; and

23 (c) Consideration of information presented during public comment  
24 periods.

25 (4) By January 31, 2008, the superintendent of public instruction  
26 shall revise the essential academic learning requirements and the grade  
27 level expectations for mathematics and present the revised standards to  
28 the state board of education and the education committees of the senate  
29 and the house of representatives as required by RCW 28A.655.070(4).  
30 The superintendent shall adopt the revised essential academic learning  
31 requirements and grade level expectations unless otherwise directed by  
32 the legislature during the 2008 legislative session.

33 (5) By June 30, 2008, the state board of education shall recommend  
34 to the superintendent of public instruction revised essential academic  
35 learning requirements and grade level expectations in science. The  
36 recommendations shall be based on:

37 (a) Considerations of clarity, rigor, content, depth, coherence  
38 from grade to grade, specificity, accessibility, and measurability;

1 (b) Study of standards used by three to five other states and in  
2 countries whose students demonstrate high performance on the trends in  
3 international mathematics and science study and the programme for  
4 international student assessment; and

5 (c) Consideration of information presented during public comment  
6 periods.

7 (6) By December 1, 2008, the superintendent of public instruction  
8 shall revise the essential academic learning requirements and the grade  
9 level expectations for science and present the revised standards to the  
10 state board of education and the education committees of the senate and  
11 the house of representatives as required by RCW 28A.655.070(4). The  
12 superintendent shall adopt the revised essential academic learning  
13 requirements and grade level expectations unless otherwise directed by  
14 the legislature during the 2009 legislative session.

15 (7)(a) By May 15, 2008, the superintendent of public instruction  
16 shall present to the state board of education recommendations for no  
17 more than three basic mathematics curricula each for elementary,  
18 middle, and high school grade spans.

19 (b) By June 30, 2008, the state board of education shall provide  
20 official comment and recommendations to the superintendent of public  
21 instruction regarding the recommended mathematics curricula. The  
22 superintendent of public instruction shall make any changes based on  
23 the comment and recommendations from the state board of education and  
24 adopt the recommended curricula.

25 (c) By May 15, 2009, the superintendent of public instruction shall  
26 present to the state board of education recommendations for no more  
27 than three basic science curricula each for elementary, middle, and  
28 high school grade spans.

29 (d) By June 30, 2009, the state board of education shall provide  
30 official comment and recommendations to the superintendent of public  
31 instruction regarding the recommended science curricula. The  
32 superintendent of public instruction shall make any changes based on  
33 the comment and recommendations from the state board of education and  
34 adopt the recommended curricula.

35 (e) In selecting the recommended curricula under this subsection  
36 (7), the superintendent of public instruction shall provide information  
37 to the mathematics and science advisory panels created under section 2

1 of this act, as appropriate, and seek the advice of the appropriate  
2 panel regarding the curricula that shall be included in the  
3 recommendations.

4 (f) The recommended curricula under this subsection (7) shall align  
5 with the revised essential academic learning requirements and grade  
6 level expectations. In addition to the recommended basic curricula,  
7 appropriate diagnostic and supplemental materials shall be identified  
8 as necessary to support each curricula.

9 (g) Subject to funds appropriated for this purpose and availability  
10 of the curricula, at least one of the curricula in each grade span and  
11 in each of mathematics and science shall be available to schools and  
12 parents online at no cost to the school or parent.

13 (8) By December 1, 2007, the state board of education shall revise  
14 the high school graduation requirements under RCW 28A.230.090 to  
15 include a minimum of three credits of mathematics, one of which may be  
16 a career and technical course equivalent in mathematics, and prescribe  
17 the mathematics content in the three required credits.

18 (9) Nothing in this section requires a school district to use one  
19 of the recommended curricula under subsection (7) of this section.  
20 However, the statewide accountability plan adopted by the state board  
21 of education under RCW 28A.305.130 shall recommend conditions under  
22 which school districts should be required to use one of the recommended  
23 curricula. The plan shall also describe the conditions for exception  
24 to the curriculum requirement, such as the use of integrated academic  
25 and career and technical education curriculum. Required use of the  
26 recommended curricula as an intervention strategy must be authorized by  
27 the legislature as required by RCW 28A.305.130(4)(e) before  
28 implementation.

29 NEW SECTION. **Sec. 2.** A new section is added to chapter 28A.305  
30 RCW to read as follows:

31 **ADVISORY PANELS.** (1) The state board of education shall appoint a  
32 mathematics advisory panel and a science advisory panel to advise the  
33 board regarding essential academic learning requirements, grade level  
34 expectations, and recommended curricula in mathematics and science and  
35 to monitor implementation of these activities. In conducting their  
36 work, the panels shall provide objective reviews of materials and  
37 information provided by any expert national consultants retained by the

1 board and shall provide a public and transparent forum for  
2 consideration of mathematics and science learning standards and  
3 curricula.

4 (2) Each panel shall include no more than sixteen members with  
5 representation from individuals from academia in mathematics and  
6 science-related fields, individuals from business and industry in  
7 mathematics and science-related fields, mathematics and science  
8 educators, parents, and other individuals who could contribute to the  
9 work of the panel based on their experiences.

10 (3) Each member of each panel shall be compensated in accordance  
11 with RCW 43.03.220 and reimbursed for travel expenses in accordance  
12 with RCW 43.03.050 and 43.03.060. School districts shall be reimbursed  
13 for the cost of substitutes for the mathematics and science educators  
14 on the panels as required under RCW 28A.300.035. Members of the panels  
15 who are employed by a public institution of higher education shall be  
16 provided sufficient time away from their regular duties, without loss  
17 of benefits or privileges, to fulfill the responsibilities of being a  
18 panel member.

19 (4) Panel members shall not have conflicts of interest with regard  
20 to association with any publisher, distributor, or provider of  
21 curriculum, assessment, or test materials and services purchased by or  
22 contracted through the office of the superintendent of public  
23 instruction, educational service districts, or school districts.

24 (5) This section expires June 30, 2012.

25 NEW SECTION. **Sec. 3.** A new section is added to chapter 28A.300  
26 RCW to read as follows:

27 AFTER-SCHOOL MATHEMATICS SUPPORT PROGRAM. (1) The after-school  
28 mathematics support program is created to study the effects of  
29 intentional, skilled mathematics support included as part of an  
30 existing after-school activity program.

31 (2) The office of the superintendent of public instruction shall  
32 provide grants to selected community-based, nonprofit organizations  
33 that provide after-school programs and include support for students to  
34 learn mathematics.

35 (3) Grant applicants must demonstrate the capacity to provide  
36 assistance in mathematics learning in the following ways:

1 (a) Identifying the mathematics content and instructional skill of  
2 the staff or volunteers assisting students;

3 (b) Identifying proposed learning strategies to be used, which  
4 could include computer-based instructional and skill practice programs  
5 and tutoring by adults or other students;

6 (c) Articulating the plan for connection with school mathematics  
7 teachers to coordinate student assistance; and

8 (d) Articulating the plan for assessing student and program  
9 success.

10 (4) Priority will be given to applicants that propose programs to  
11 serve middle school and junior high school students.

12 (5) The office of the superintendent of public instruction shall  
13 evaluate program outcomes and report to the governor and the education  
14 committees of the legislature on the outcomes of the grants and make  
15 recommendations related to program continuation, program modification,  
16 and issues related to program sustainability and possible program  
17 expansion. An interim report is due November 1, 2008. The final  
18 report is due December 1, 2009.

19 NEW SECTION. **Sec. 4.** A new section is added to chapter 28A.415  
20 RCW to read as follows:

21 MATHEMATICS AND SCIENCE INSTRUCTIONAL COACH PROGRAM. (1) A  
22 mathematics and science instructional coach program is authorized,  
23 which shall consist of a coach development institute, coaching  
24 seminars, coaching activities in schools, and program evaluation.

25 (2) The office of the superintendent of public instruction shall  
26 develop a mathematics and science instructional coach program that  
27 includes an initial coach development experience for new coaches  
28 provided through an institute setting, coaching support seminars, and  
29 additional coach development services. The office shall draw upon the  
30 experiences of coaches in federally supported elementary literacy  
31 programs and other successful programs, research and policy briefs on  
32 adult professional development, and research that specifically  
33 addresses the instructional environments of middle, junior high, and  
34 high schools as well as the unique aspects of the fields of mathematics  
35 and science.

36 (3) The office of the superintendent of public instruction shall  
37 design the application process and select the program participants.

1 (4) Schools and school districts participating in the program shall  
2 carefully select the individuals to perform the role of mathematics or  
3 science instructional coach. Characteristics to be considered for a  
4 successful coach include:

5 (a) Expertise in content area;

6 (b) Expertise in various instructional methodologies and  
7 personalizing learning;

8 (c) Personal skills that include skilled listening, questioning,  
9 trust-building, and problem-solving;

10 (d) Understanding and appreciation for the differences in adult  
11 learners and student learners; and

12 (e) Capacity for strategic planning and quality program  
13 implementation.

14 (5) The role of the mathematics or science instructional coach is  
15 focused on supporting teachers as they apply knowledge, develop skills,  
16 polish techniques, and deepen their understanding of content and  
17 instructional practices. This work takes a number of forms including:  
18 Individualized professional development, department-wide and school-  
19 wide professional development, guidance in student data interpretation,  
20 and using assessment to guide instruction. Each coach shall be  
21 assigned to two schools as part of the program.

22 (6) Program participants have the following responsibilities:

23 (a) Mathematics and science coaches shall participate in the coach  
24 development institute as well as in coaching support seminars that take  
25 place throughout the school year, practice coaching activities as  
26 guided by those articulated in the role of the coach in subsection (5)  
27 of this section, collect data, and participate in program evaluation  
28 activities as requested by the institute pursuant to subsection (7) of  
29 this section.

30 (b) School and district administrators in districts in which the  
31 mathematics and science coaches are practicing shall participate in  
32 program evaluation activities.

33 (7)(a) The Washington State University social and economic sciences  
34 research center shall conduct an evaluation of the mathematics and  
35 science instructional coach program in this section. Data shall be  
36 collected through various instruments including surveys, program and  
37 activity reports, student performance measures, observations,  
38 interviews, and other processes. Findings shall include an evaluation



1 of the coach development institute, coaching support seminars, and  
2 other coach support activities; recommendations with regard to the  
3 characteristics required of the coaches; identification of changes in  
4 teacher instruction related to coaching activities; and identification  
5 of the satisfaction level with coaching activities as experienced by  
6 classroom teachers and administrators.

7 (b) The Washington State University social and economic sciences  
8 research center shall report its findings to the governor, the office  
9 of the superintendent of public instruction, and the education and  
10 fiscal committees of the legislature. An interim report is due  
11 November 1, 2008. The final report is due December 1, 2009.

12 **Sec. 5.** RCW 28A.660.005 and 2001 c 158 s 1 are each amended to  
13 read as follows:

14 (1) The legislature finds and declares:

15 ~~((+1))~~ (a) Teacher qualifications and effectiveness are the most  
16 important influences on student learning in schools~~((+))~~i

17 ~~((+2))~~ (b) Preparation of individuals to become well-qualified,  
18 effective teachers must be high quality~~((+))~~i

19 ~~((+3))~~ (c) Teachers who complete high-quality alternative route  
20 programs with intensive field-based experience, adequate coursework,  
21 and strong mentorship do as well or better than teachers who complete  
22 traditional preparation programs~~((+))~~i

23 ~~((+4))~~ (d) High-quality alternative route programs can provide  
24 more flexibility and expedience for individuals to transition from  
25 their current career to teaching~~((+))~~i

26 ~~((+5))~~ (e) High-quality alternative route programs can help school  
27 districts fill subject matter shortage areas and areas with shortages  
28 due to geographic location~~((+))~~i

29 ~~((+6))~~ (f) Regardless of route, all candidates for residency  
30 teacher certification must meet the high standards required by the  
31 state; and

32 (g) Teachers need an adequate background in subject matter content  
33 if they are to teach it well, and should hold full, appropriate  
34 credentials in those subject areas.

35 (2) The legislature recognizes widespread concerns about the  
36 potential for teacher shortages and finds that classified instructional

1 staff in public schools, current certificated staff, and unemployed  
2 certificate holders represent a great untapped resource for recruiting  
3 ((the)) more teachers ((of the future)) in critical shortage areas.

4 NEW SECTION. Sec. 6. A new section is added to chapter 28A.660  
5 RCW to read as follows:

6 (1) The pipeline for paraeducators conditional scholarship program  
7 is created. Participation is limited to paraeducators without a  
8 college degree who have at least three years of classroom experience.  
9 It is anticipated that candidates enrolled in this program will  
10 complete their associate of arts degree at a community and technical  
11 college in two years or less and become eligible for a mathematics,  
12 special education, or English as a second language endorsement via  
13 route one in the alternative routes to teacher certification program  
14 provided in this chapter.

15 (2) Entry requirements for candidates include district or building  
16 validation of qualifications, including three years of successful  
17 student interaction and leadership as a classified instructional  
18 employee.

19 NEW SECTION. Sec. 7. A new section is added to chapter 28A.660  
20 RCW to read as follows:

21 (1) The retooling to teach mathematics and science conditional  
22 scholarship program is created. Participation is limited to current K-  
23 12 teachers and individuals having an elementary education certificate  
24 but who are not employed in positions requiring an elementary education  
25 certificate. It is anticipated that candidates enrolled in this  
26 program will complete the requirements for a mathematics or science  
27 endorsement, or both, in two years or less.

28 (2) Entry requirements for candidates include:

29 (a) Current K-12 teachers shall pursue a middle level mathematics  
30 or science, or secondary mathematics or science endorsement.

31 (b) Individuals having an elementary education certificate but who  
32 are not employed in positions requiring an elementary education  
33 certificate shall pursue an endorsement in middle level mathematics or  
34 science only.

1       **Sec. 8.** RCW 28A.660.050 and 2004 c 23 s 5 are each amended to read  
2 as follows:

3       The ~~((alternative route))~~ conditional scholarship programs ~~((is))~~  
4 in this chapter are created under the following guidelines:

5       (1) The programs shall be administered by the higher education  
6 coordinating board. In administering the programs, the higher  
7 education coordinating board has the following powers and duties:

8       (a) To adopt necessary rules and develop guidelines to administer  
9 the programs;

10       (b) To collect and manage repayments from participants who do not  
11 meet their service obligations; and

12       (c) To accept grants and donations from public and private sources  
13 for the programs.

14       (2) Requirements for participation in the ~~((alternative route))~~  
15 conditional scholarship programs are as provided in this subsection  
16 (2).

17       (a) The alternative route conditional scholarship program is  
18 limited to interns of the partnership grant programs under RCW  
19 28A.660.040. In order to receive conditional scholarship awards,  
20 recipients shall:

21       (i) Be accepted and maintain enrollment in alternative  
22 certification routes through the partnership grant program;

23       (ii) Continue to make satisfactory progress toward completion of  
24 the alternative route certification program and receipt of a residency  
25 teaching certificate; and

26       (iii) Receive no more than the annual amount of the scholarship,  
27 not to exceed eight thousand dollars, for the cost of tuition, fees,  
28 and educational expenses, including books, supplies, and transportation  
29 for the alternative route certification program in which the recipient  
30 is enrolled. The board may adjust the annual award by the average rate  
31 of resident undergraduate tuition and fee increases at the state  
32 universities as defined in RCW 28B.10.016.

33       (b) The pipeline for paraeducators conditional scholarship program  
34 is limited to qualified paraeducators as provided by section 6 of this  
35 act. In order to receive conditional scholarship awards, recipients  
36 shall:

37       (i) Be accepted and maintain enrollment at a community and

1 technical college for no more than two years and attain an associate of  
2 arts degree;

3 (ii) Continue to make satisfactory progress toward completion of an  
4 associate of arts degree. This progress requirement is a condition for  
5 eligibility into a route one program of the alternative routes to  
6 teacher certification program for a mathematics, special education, or  
7 English as a second language endorsement; and

8 (iii) Receive no more than the annual amount of the scholarship,  
9 not to exceed four thousand dollars, for the cost of tuition, fees, and  
10 educational expenses, including books, supplies, and transportation for  
11 the alternative route certification program in which the recipient is  
12 enrolled. The board may adjust the annual award by the average rate of  
13 tuition and fee increases at the state community and technical  
14 colleges.

15 (c) The retooling to teach mathematics and science conditional  
16 scholarship program is limited to current K-12 teachers and individuals  
17 having an elementary education certificate but who are not employed in  
18 positions requiring an elementary education certificate as provided by  
19 section 7 of this act. In order to receive conditional scholarship  
20 awards:

21 (i) Individuals currently employed as teachers shall pursue a  
22 middle level mathematics or science, or secondary mathematics or  
23 science endorsement; or

24 (ii) Individuals who are certificated with an elementary education  
25 endorsement, but not employed in positions requiring an elementary  
26 education certificate, shall pursue an endorsement in middle level  
27 mathematics or science, or both; and

28 (iii) Individuals shall use one of the pathways to endorsement  
29 processes to receive a mathematics or science endorsement, or both,  
30 which shall include passing a mathematics or science endorsement test,  
31 or both tests, plus observation and completing applicable coursework to  
32 attain the proper endorsement; and

33 (iv) Individuals shall receive no more than the annual amount of  
34 the scholarship, not to exceed three thousand dollars, for the cost of  
35 tuition, test fees, and educational expenses, including books,  
36 supplies, and transportation for the endorsement pathway being pursued.

37 (3) The Washington professional educator standards board shall  
38 select (~~interns~~) individuals to receive conditional scholarships.

1       ~~((3) In order to receive conditional scholarship awards,~~  
2 ~~recipients shall be accepted and maintain enrollment in alternative~~  
3 ~~certification routes through the partnership grant program, as provided~~  
4 ~~in RCW 28A.660.040. Recipients must continue to make satisfactory~~  
5 ~~progress towards completion of the alternative route certification~~  
6 ~~program and receipt of a residency teaching certificate.))~~

7       (4) For the purpose of this chapter, a conditional scholarship is  
8 a loan that is forgiven in whole or in part in exchange for service as  
9 a certificated teacher employed in a Washington state K-12 public  
10 school. The state shall forgive one year of loan obligation for every  
11 two years a recipient teaches in a public school. Recipients ~~((that))~~  
12 who fail to continue a course of study leading to residency teacher  
13 certification or cease to teach in a public school in the state of  
14 Washington in their endorsement area are required to repay the  
15 remaining loan principal with interest.

16       (5) Recipients who fail to fulfill the required teaching obligation  
17 are required to repay the remaining loan principal with interest and  
18 any other applicable fees. The higher education coordinating board  
19 shall adopt rules to define the terms for repayment, including  
20 applicable interest rates, fees, and deferments.

21       ~~((To the extent funds are appropriated for this specific~~  
22 ~~purpose, the annual amount of the scholarship is the annual cost of~~  
23 ~~tuition; fees; and educational expenses, including books, supplies, and~~  
24 ~~transportation for the alternative route certification program in which~~  
25 ~~the recipient is enrolled, not to exceed eight thousand dollars. The~~  
26 ~~board may adjust the annual award by the average rate of resident~~  
27 ~~undergraduate tuition and fee increases at the state universities as~~  
28 ~~defined in RCW 28B.10.016.~~

29       ~~(7))~~ The higher education coordinating board may deposit all  
30 appropriations, collections, and any other funds received for the  
31 program in this chapter in the ~~((student loan))~~ future teachers  
32 conditional scholarship account authorized in RCW ~~((28B.102.060))~~  
33 28B.102.080.

34       **Sec. 9.** RCW 28B.102.080 and 2004 c 58 s 9 are each amended to read  
35 as follows:

36       (1) The future teachers conditional scholarship account is created  
37 in the custody of the state treasurer. An appropriation is not

1 required for expenditures of funds from the account. The account is  
2 not subject to allotment procedures under chapter 43.88 RCW except for  
3 moneys used for program administration.

4 (2) The board shall deposit in the account all moneys received for  
5 the future teachers conditional scholarship and loan repayment program  
6 and for conditional loan programs under chapter 28A.660 RCW. The  
7 account shall be self-sustaining and consist of funds appropriated by  
8 the legislature for the future teachers conditional scholarship and  
9 loan repayment program, private contributions to the program, ((and))  
10 receipts from participant repayments from the future teachers  
11 conditional scholarship and loan repayment program, and conditional  
12 loan programs established under chapter 28A.660 RCW. Beginning July 1,  
13 2004, the board shall also deposit into the account: (a) All funds  
14 from the institution of higher education loan account that are  
15 traceable to any conditional scholarship program for teachers or  
16 prospective teachers established by the legislature before June 10,  
17 2004; and (b) all amounts repaid by individuals under any such program.

18 (3) Expenditures from the account may be used solely for  
19 conditional loans and loan repayments to participants in the future  
20 teachers conditional scholarship and loan repayment program established  
21 by this chapter, conditional scholarships for participants in programs  
22 established in chapter 28A.660 RCW, and costs associated with program  
23 administration by the board.

24 (4) Disbursements from the account may be made only on the  
25 authorization of the board.

26 NEW SECTION. Sec. 10. A new section is added to chapter 28B.10  
27 RCW to read as follows:

28 (1) By September 1, 2008, the state board for community and  
29 technical colleges, the council of presidents, the higher education  
30 coordinating board, and the office of the superintendent of public  
31 instruction, under the leadership of the transition math project and in  
32 collaboration with representatives of public two and four-year  
33 institutions of higher education, shall jointly revise the Washington  
34 mathematics placement test to serve as a common college readiness test  
35 for all two and four-year institutions of higher education.

36 (2) The revised mathematics college readiness test shall be  
37 implemented by all public two and four-year institutions of higher

1 education by September 1, 2009. All public two and four-year  
2 institutions of higher education must use a common performance standard  
3 on the mathematics placement test for purposes of determining college  
4 readiness in mathematics. The performance standard must be publicized  
5 to all high schools in the state.

6 NEW SECTION. **Sec. 11.** A new section is added to chapter 28A.320  
7 RCW to read as follows:

8 (1) Subject to funding appropriated for this purpose and beginning  
9 in the fall of 2009, school districts shall provide all high school  
10 students enrolled in the district the option of taking the mathematics  
11 college readiness test developed under section 10 of this act once at  
12 no cost to the students. Districts shall encourage, but not require,  
13 students to take the test in their junior or senior year of high  
14 school.

15 (2) Subject to funding appropriated for this purpose, the office of  
16 the superintendent of public instruction shall reimburse each district  
17 for the costs incurred by the district in providing students the  
18 opportunity to take the mathematics placement test.

19 NEW SECTION. **Sec. 12.** The legislature finds that knowledge,  
20 skills, and opportunities in mathematics, science, and technology  
21 should be increased for all students in Washington. The legislature  
22 intends to foster capacity between and among the educational sectors to  
23 enable continuous and sustainable growth of the learning and teaching  
24 of mathematics, science, and technologies. The legislature intends to  
25 foster high quality mathematics, science, and technology programs to  
26 increase the number of students in the kindergarten through twelfth  
27 grade pipeline who are prepared and aspire to continue in the areas of  
28 mathematics, science, and technology, whether it be at a college,  
29 university, or in the workforce.

30 **Sec. 13.** RCW 28A.230.130 and 2003 c 49 s 2 are each amended to  
31 read as follows:

32 (1) All public high schools of the state shall provide a program,  
33 directly or in cooperation with a community college or another school  
34 district, for students whose educational plans include application for

1 entrance to a baccalaureate-granting institution after being granted a  
2 high school diploma. The program shall help these students to meet at  
3 least the minimum entrance requirements under RCW 28B.10.050.

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

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

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

17 (3) Within funds specifically appropriated therefor, a middle  
18 school that receives approval from the office of the superintendent of  
19 public instruction to provide a career and technical program directly  
20 to students shall receive funding at the same rate as a high school  
21 operating a similar program. Additionally, a middle school that  
22 provides a hands-on experience in math and science with an integrated  
23 curriculum of academic content and career and technical education, and  
24 includes a career and technical education exploratory component shall  
25 also qualify for the career and technical education funding.

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

35 **Sec. 14.** RCW 28A.230.130 and 2006 c 263 s 407 are each amended to  
36 read as follows:

37 (1) All public high schools of the state shall provide a program,



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

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

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

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

19 (3) Within funds specifically appropriated therefor, a middle  
20 school that receives approval from the office of the superintendent of  
21 public instruction to provide a career and technical program directly  
22 to students shall receive funding at the same rate as a high school  
23 operating a similar program. Additionally, a middle school that  
24 provides a hands-on experience in math and science with an integrated  
25 curriculum of academic content and career and technical education, and  
26 includes a career and technical education exploratory component shall  
27 also qualify for the career and technical education funding.

28 NEW SECTION. Sec. 15. A new section is added to chapter 28A.300  
29 RCW to read as follows:

30 The superintendent of public instruction shall provide support for  
31 statewide coordination for math, science, and technology, including  
32 employing a statewide director for math, science, and technology. The  
33 duties of the director shall include, but not be limited to:

34 (1) Within funds specifically appropriated therefor, obtain a  
35 statewide license, or otherwise obtain and disseminate, an interactive,  
36 project-based high school and middle school technology curriculum that  
37 includes a comprehensive professional development component for

1 teachers and, if possible, counselors, and also includes a systematic  
2 program evaluation. The curriculum must be distributed to all school  
3 districts, or as many as feasible, by the 2007-08 school year;

4 (2) Within funds specifically appropriated therefor, supporting a  
5 public-private partnership to assist school districts with implementing  
6 an ongoing, inquiry-based science program that is based on a research-  
7 based model of systemic reform and aligned with the Washington state  
8 science grade level expectations;

9 (3) Within funds specifically appropriated therefor, supporting a  
10 public-private partnership to provide enriching opportunities in  
11 mathematics, engineering, and science for underrepresented students in  
12 grades kindergarten through twelve using exemplary materials and  
13 instructional approaches;

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

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

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

29 (a) Increasing student engagement and career awareness, including  
30 increasing student participation in the youth opportunities in  
31 subsection (5) of this section;

32 (b) Creation and promotion of student scholarships, internships,  
33 and apprenticeships;

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

36 (d) Upgrading kindergarten through twelfth grade school equipment  
37 and facilities to support high quality math, science, and technology  
38 programs;

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

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

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

11 NEW SECTION. **Sec. 16.** A new section is added to chapter 28A.655  
12 RCW to read as follows:

13 (1) Within funds specifically appropriated therefor, by December 1,  
14 2008, the superintendent of public instruction shall develop essential  
15 academic learning requirements and grade level expectations for  
16 educational technology literacy and technology fluency that identify  
17 the knowledge and skills that all public school students need to know  
18 and be able to do in the areas of technology and technology literacy.  
19 The development process shall include a review of current standards  
20 that have been developed or are used by other states and national and  
21 international technology associations. To the maximum extent possible,  
22 the superintendent shall integrate goal four and the knowledge and  
23 skill areas in the other goals in the technology essential academic  
24 learning requirements.

25 (a) As used in this section, "technology literacy" means the  
26 ability to responsibly, creatively, and effectively use appropriate  
27 technology to communicate; access, collect, manage, integrate, and  
28 evaluate information; solve problems and create solutions; build and  
29 share knowledge; and improve and enhance learning in all subject areas  
30 and experiences.

31 (b) Technology fluency builds upon technology literacy and is  
32 demonstrated when students: Apply technology to real-world  
33 experiences; adapt to changing technologies; modify current and create  
34 new technologies; and personalize technology to meet personal needs,  
35 interests, and learning styles.

36 (2)(a) Within funds specifically appropriated therefor, the  
37 superintendent shall obtain or develop education technology assessments

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

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

17 NEW SECTION. **Sec. 17.** A new section is added to chapter 28B.76  
18 RCW to read as follows:

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

27 NEW SECTION. **Sec. 18.** Beginning September 1, 2007, through  
28 December 1, 2008, the state board of education shall provide a status  
29 report at the beginning of each calendar quarter on the activities and  
30 progress in completing the requirements under section 1 of this act.  
31 The report shall be provided to the governor and the members of the  
32 education committees of the senate and the house of representatives.

33 NEW SECTION. **Sec. 19.** Captions used in this act are not any part  
34 of the law.

1        NEW SECTION.   **Sec. 20.**   Section 13 of this act expires September 1,  
2   2009.

3        NEW SECTION.   **Sec. 21.**   Section 14 of this act takes effect  
4   September 1, 2009.

5        NEW SECTION.   **Sec. 22.**   Sections 1 and 2 of this act are necessary  
6   for the immediate preservation of the public peace, health, or safety,  
7   or support of the state government and its existing public  
8   institutions, and take effect immediately.

      Passed by the House April 17, 2007.

      Passed by the Senate April 11, 2007.

      Approved by the Governor May 9, 2007.

      Filed in Office of Secretary of State May 11, 2007.