

128th MAINE LEGISLATURE

FIRST REGULAR SESSION-2017

Legislative Document No. 49

H.P. 35

House of Representatives, January 10, 2017

An Act To Improve Science and Engineering Education for Maine's Students

Reference to the Committee on Education and Cultural Affairs suggested and ordered printed.

R(+ B. Hunt

ROBERT B. HUNT Clerk

Presented by Representative DEVIN of Newcastle.

Cosponsored by Representative POULIOT of Augusta, Senator MILLETT of Cumberland, Senator LANGLEY of Hancock and Representatives: DAUGHTRY of Brunswick, HIGGINS of Dover-Foxcroft, HUBBELL of Bar Harbor, PIERCE of Falmouth, STEARNS of Guilford, STEWART of Presque Isle, Senators: DILL of Penobscot, MAKER of Washington.

1 Be it enacted by the People of the State of Maine as follows:

Sec. 1. 20-A MRSA §6209, first ¶, as amended by PL 2015, c. 489, §3, is further
 amended to read:

4 The department in consultation with the state board shall establish and implement a comprehensive, statewide system of learning results, which may must include a core of 5 standards in English language arts and, mathematics and science for kindergarten to grade 6 12 established in common with the other states, as set forth in this section and in 7 department rules implementing this section and other curricular requirements. The 8 9 department must shall establish accountability standards at all grade levels in the areas of mathematics; reading; and science and technology. The department shall establish 10 parameters for essential instruction in English language arts; mathematics; science and 11 technology; social studies; career and education development; visual and performing arts; 12 health, physical education and wellness; and world languages. Only a public school, a 13 public charter school as defined in section 2401, subsection 9 or a private school 14 15 approved for tuition purposes that enrolls at least 60% publicly funded students, as determined by the previous school year's October and April average enrollment, is 16 17 required to participate in the system of learning results set forth in this section and in department rules implementing this section and other curricular requirements. The 18 commissioner shall develop accommodation provisions for instances where course 19 20 content conflicts with sincerely held religious beliefs and practices of a student's parent or guardian. The system must be adapted to accommodate children with disabilities as 21 22 defined in section 7001, subsection 1-B.

- 23 Sec. 2. 20-A MRSA §6209, sub-§1-A, ¶C, as enacted by PL 2007, c. 259, §5, is
 24 amended to read:
 - C. Science, in those content areas concerning cells and continuity and change.

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Sec. 3. 20-A MRSA §13704, sub-§3, ¶A, as amended by PL 2015, c. 3, §1, is
 further amended to read:

28 A. The rating must be based on standards of professional practice and measures of 29 educator effectiveness. The proportionate weight of the standards and the measures is a local decision, but measurements of student learning and growth must be a 30 31 significant factor in the determination of the rating of an educator. School 32 administrative units shall use state assessment growth data for English language arts, 33 literacy, science and mathematics as at least one measure of the performance of 34 English language arts, science and mathematics teachers in tested grades and as a 35 measure for the performance of principals.

- An educator whose summative effectiveness rating indicates ineffectiveness must receive an annual summative effectiveness evaluation and rating until the rating improves.
- An individualized education plan may not be used to measure student growth for the
 purposes of teacher and principal evaluation, but an individualized education plan
 may be a source of evidence from which learning objectives and learning targets may
 be developed.

Sec. 4. The Commissioner of Education shall amend the 1 Rulemaking. 2 Department of Education's Rules Chapter 131, the Maine Federal, State, and Local 3 Accountability Standards, and Rules Chapter 132, Learning Results: Parameters for Essential Instruction, to include in the statewide system of learning results and 4 5 assessment a core of science standards for kindergarten to grade 12 aligned to the "Next Generation Science Standards" that was developed by a collaborative, state-led process 6 7 involving the National Research Council of the National Academies of Sciences, 8 Engineering, and Medicine, the National Science Teachers Association, the American 9 Association for the Advancement of Science and others and released in April 2013. The 10 science standards included in these rules must include science and engineering aspects of the Next Generation Science Standards that clarify for students the relevance of science, 11 12 technology, engineering and mathematics to everyday life and help students become successful analytical thinkers, prepared for college and careers. 13

14 The 2 rules chapters to be amended by the Commissioner of Education in accordance with this section are major substantive rules pursuant to the Maine Revised Statutes, Title 15 20-A, section 253, subsection 9 and section 6211. In order to implement the science 16 17 standards as part of the State's system of learning results and assessment beginning with 18 the 2019-2020 school year, the Department of Education shall provisionally adopt these amended rules on or before December 31, 2017 and shall submit the provisionally 19 20 adopted rules to the Executive Director of the Legislative Council by the deadline 21 established for the legislative acceptance period in 2018 in accordance with Title 5, 22 chapter 375, subchapter 2-A.

SUMMARY

This bill requires the Department of Education to include the so-called Next Generation Science Standards for kindergarten to grade 12 in the State's system of learning results and assessment and directs the Commissioner of Education to amend Department of Education rules on or before December 31, 2017 in order to include the science standards as part of the State's system of learning results and assessment beginning with the 2019-2020 school year.

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