

Change Model: Textbooks to Support the Math I Course and Essential Learning Targets

1. What is the problem that needs to be solved?

a. *Compelling reason for change?*

The South Portland High School (SPHS) Mathematics Department currently uses Core Plus Mathematics as a resource to support the curriculum in the Math I course. The Math II and III courses use Glencoe Geometry and Algebra 2 as a resource to support the curriculum. The request for a new Math I text is to better align the content in the Math I course. Furthermore, the adoption of a new Math I text will help support the district's initiative to provide all students with a guaranteed and viable curriculum. The Math Department is proposing the adoption of the Glencoe Algebra 1 book to support this change.

b. *Data to support the change?*

The South Portland School District recently provided the Mathematics Department with the Essential Learning Targets for foundational learning at the high school level. The South Portland High School Mathematics Department completed an analysis of our current textbook and how it aligns with the foundational knowledge all students will be required to meet before graduating from SPHS. After completing the analysis the Math Department found the following information for the Math I course:

Core Plus Mathematics Textbook Alignment: 4 Out of 10 Essential Learning Targets Met

Glencoe Algebra 1 Textbook Alignment: 10 Out of 10 Essential Learning Targets Met

Based on this data it is clear that the adoption of a Glencoe Algebra 1 textbook will help support the Math I curriculum as well as the implementation of the Essential Learning Targets.

c. *Research to support the change?*

The Essential Learning Targets outlined by the South Portland School Department are directly aligned to the Common Core State Standards. The Common Core State Standards suggests "all students must have an opportunity to learn and meet the same high standards if they are to access the knowledge and skills necessary in their post-school lives". The adoption of the Glencoe Algebra 1 book for use in the Math I course will support our current Math I curriculum and provide a resource for teachers and students to access a guaranteed and viable curriculum.

2. **How and by whom will the decision be made?**

The decision will be made through the Change Model Process completed by the SPHS Mathematics Department. The department will work closely with the Curriculum Director Becky Brown as well as SPHS Principal Jim Holland.

3. **Proposed Solution?**

The proposed solution is directly linked to Section 1 of this document. The South Portland High School Mathematics Department is proposing the purchase of a textbook that will align and support our current Math I curriculum as well as the Essential Learning Targets. The goal of the department is to purchase a textbook that will help support the current curriculum as well as the implementation of the Essential Learning Targets for all students.

4. **Anticipated Results?**

The South Portland High School Mathematics Department anticipates the textbook will help support the implementation of the Essential Learning Targets. Furthermore, the department believes that the purchase of the textbook will help prepare students for the Math III course by providing a guaranteed and viable curriculum in the course sequence leading up to the Math III course.

5. **Capacity to make the change?**

Adopting a new textbook for any course is an expensive and extensive process. Funding has been included in the 2013-2014 Mathematics Department budget to purchase new textbooks at a cost of approximately \$15,000. Additionally, funding might be needed at the middle school level to support the Math I courses that are taught at that level.

6. **Stakeholders?**

The stakeholders are the students enrolled in the Math I course that are attempting to meet the Essential Learning Targets. Furthermore, teachers are stakeholders, as resources are required to support our current curriculum structure at South Portland High School.