

200 West Baltimore Street • Baltimore, MD 21201 • 410-767-0100 • 410-333-6442 TTY/TDD • MarylandPublicSchools.org

TO:

Members of the State Board of Education

FROM:

Lillian M. Lowery, Ed.D. fwfower

DATE:

September 25, 2012

SUBJECT:

Standards for the Mastery and Application of the Braille Code for English/Language

Arts, and Mathematics

PURPOSE:

The purpose of this memorandum is to inform the State Board of Education of the development of the Maryland Common Core State Curriculum Frameworks for Braille: Mathematics and English/Language Arts, and to request State Board authorization to release these Frameworks and accompanying Braille standards to guide the instruction of students with visual impairments in Maryland so that they graduate college and career ready.

BACKGROUND:

As a result of action by the General Assembly in 2010, §8–408 of the Education Article (Special Programs for Exceptional Children, Children with Disabilities) was amended. The amendment called for establishment of standards for mastery of Braille by directing that "On or before September 1, 2012, the State Board shall establish standards for the mastery of Braille for use in English, language arts, and mathematics instruction of blind and visually impaired students in pre-kindergarten through grade 12."

EXECUTIVE SUMMARY:

In response to this amendment, the Division of Special Education/Early Intervention Services established a Task Force in September 2010 comprised of stakeholders with representatives from the Maryland State Department of Education, the Maryland School for the Blind, local school systems, parents, and advocacy groups to develop the standards (Attachment 1). The Task Force met six times during the 2010-11 school year and ten times during the 2011-12 school year to draft the Maryland Common Core State Curriculum Frameworks for Braille: Mathematics and the Maryland Common Core State Curriculum Frameworks for Braille: English/Language Arts, respectively. The standards for students who read braille are based on the same standards for all students and promote high, grade-level expectations. The standards include the identified braille skills students need to access core curriculum content and materials in order to be college or career ready.

Members of the State Board of Education September 25, 2012 Page 2

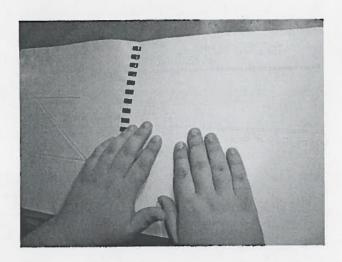
A sample of the standards is shown in Attachment 2. This sample of the frameworks includes a key to how the frameworks were modified for braille readers, and a sample of the charts included in the document that identify the braille code to be learned at each grade level.

ACTION:

The State Board of Education is requested to authorize release of this Framework to guide the instruction of visually impaired students in Maryland schools.

TASK FORCE MEMBERS

- Susan Adams, Teacher of the Blind and Visually Impaired and Orientation and Mobility Specialist, Montgomery County Public Schools
- Dr. Michael J. Bina, President, The Maryland School for the Blind
- Eldre Boggs, Resource Teacher for Blind and Visually Impaired, Anne Arundel County Public Schools
- Dr. Lea Ann Christenson, English/Language Arts Specialist, Maryland State Department of Education, Division of Instruction
- Melinda Demaris, Teacher of the Blind and Visually Impaired, Orientation and Mobility Specialist, Wicomico County Public Schools
- Karen Ehrhardt Lloyd, Program Head, Vision Services, Howard County Public Schools
- Heather Johnson, Teacher, The Maryland School for the Blind
- Dr. Allison Layland, Associate Director, Mid-South Regional Resource Center, University of Kentucky
- Jacqueline Otwell, Teacher of the Blind and Visually Impaired, Carroll County Public Schools
- Susan Polansky, Maryland Parents of Blind Children
- Melissa Riccobono, President, Maryland Chapter of the National Federation of the Blind
- Jill Richmond, Parent, Maryland Parents of Blind Children, National Federation of the Blind
- Dr. Karen Ross, Mathematics Specialist, Maryland State Department of Education, Division of Instruction
- Carol Seckington, Assistant Principal, The Maryland School for the Blind
- Sally Shreck, Certified Braille Transcriber, Maryland Instructional Resource Center for Students with Visual Impairments, The Maryland School for the Blind
- Linda Starner, Teacher of the Blind and Visually Impaired, Orientation and Mobility Specialist, Baltimore County Public Schools
- Lisa Wright, Statewide Vision/Low Incidence Specialist, Maryland State Department of Education, Division of Special Education/Early Intervention Services and The Maryland School for the Blind



MARYLAND COMMON CORE CURRICULUM FRAMEWORKS FOR BRAILLE 2012





SAMPLE

Key:

Black print - Common Core State Standards

Red print — The Essential Skills and Knowledge identified by Maryland Educators. These statements are intended to help teachers develop common understandings and valuable insights into what a student must know and be able to do to demonstrate proficiency with the standard. Purple print — The Common Core State Standard was judged as an excellent match with the existing State Curriculum during the gap analysis, such as SC, 6 (read "State Curriculum, Grade 6) Underlining— word/phrases/sentences that pertain to braille reading, writing, and tactile graphics. Strikethroughs— word/phrases that are visual in nature and not applicable to a student who reads braille.

LANGUAGE

L1 CCR Anchor Sta Demonstrate comi		ons of Standard English grammar and usa	ge when writing or speaking.			
Kindergartners: L1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking L1.a Print Write many upper and lowercase letters in braille, using the capital sign to indicate the uppercase letters.		Grade 1 students:	Grade 2 students:			
		L1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	L1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking. L1.a Use collective nouns (e.g., group)			
		L1.a Print Write all upper and lowercase letters in braille, using the capital sign to indicate the uppercase letters. (SC, 1)				
Essential Skills	and Knowledge	Essential Skills and Knowledge	Essential Skills and Knowledge			
o explicitly strengthe including strength formation variety of o via direct formation many upportalle let capital siguppercas sizes and paper, an mediums developm manner. o correctly lowercass last name	ng and support, and sequentially an fine motor skills, finger isolation and which support letter in braille using a factivities instruction of letter in correctly form per and lowercase atters, using the general to indicate the letters on various styles of braille and other tactile in a mentally appropriate form upper and the letters in first and the in braille using the general appropriate	 Develop and strengthen fine motor skills Including finger isolation and strength using a variety of activities. Correctly form all upper and lowercase letters In braille using capital sign as appropriate. Practice forming upper and lowercase braille letters, using the capital sign to indicate upper case letters on various sizes and styles of braille paper, and other tactile mediums. 	 Identify and define collective nouns presented in a variety of <u>braille</u> texts. Distinguish between common, proper, and possessive, and collective nouns. Demonstrate the use of collective nouns in oral and written language. 			

CHARTS OF BRAILLE SYMBOLS KINDERGARTEN

Literary

	Literary Sign	Braille Symbol					
Double dash	****	•• •• ••					
Ellipsis	•••						
Letter sign	N/A	::					
Transcriber's note Opening Closing	N/A						
Braille contractions for alphabet words	but can do every from go	•:	••	• •	::	•:	••
	have just knowledge like	•••		• :	::		
	more not people quite	::		•:			
	rather so that us very will	::	::		•:	::	•
	it you as	::	::	::			
Braille Contractions	and of for the with	::	::	::	: •	÷	

Mathematics

	Mathematical Sign	Nemeth Symbol						
Hyphen	-	::						
Read and write numbers 0-20	0-20	: : : : : : : : : : : : : : : : : : : :						
Mathematical comma	,	::						
Ellipse	2, 3, 4,							
Plus	+	:•						
Minus		•••						
Equal to	=							
Write equations in horizontal format	1+2 = 3							