

BALTIMORE COUNTY PUBLIC SCHOOLS

DATE: December 7, 2010

TO: **BOARD OF EDUCATION**

FROM: Dr. Joe A. Hairston, Superintendent

SUBJECT: **CONSIDERATION OF THE LIBRARY MEDIA CURRICULUM, GRADES 1-5**

ORIGINATOR: John Quinn, Acting Assistant Superintendent, Curriculum and Instruction

RESOURCE PERSON(S): Patricia Baltzley, Acting Executive Director, Department of STEM
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RECOMMENDATION

That the Board of Education approve, as reviewed by the Board of Education's Curriculum Committee, the Library Media Curriculum, Grades 1-5 for student use beginning in mid-January 2011.

Attachment I – Executive Summary for the Proposed Library Media Curriculum, Grades 1-5
Attachment II – Library Media Curriculum, Grades 1-5, Alignment Chart

Executive Summary

Proposed Library Media Curriculum, Grades 1-5

The mission of the Office of Library Information Services (LIS) is to foster the development of student information and technology literacy competencies that support and expand inquiry learning and research in reading, science, social studies, and mathematics. The Library Media Curriculum, Grades 1-5 serves as a pathway for achievement in middle and high schools, college, the workforce, and military readiness in a knowledge-based global economy. Expanding on the success of Baltimore County Public Schools, piloting this curriculum is the next logical step to ensure standardization of 21st century skills teaching and learning at the elementary school level. This curriculum will ensure that students have access to library collections that are current, multi-perspective, multi-formatted, and serve as a 24/7 gateway for ALL students to acquire, evaluate, organize, create, and communicate information for both academic and personal pursuits.

This curriculum is built upon solid research. In more than 60 research studies, the findings have consistently proven that students in schools with quality school libraries learn more, get better grades, and score higher on standardized tests than their peers in schools without quality school libraries. Highlights of the research findings that directly correlate to the purpose and underpinning of the Library Media Curriculum, Grades 1-5 are as follows:

- ◆ Students valued most the library media specialist's help in teaching them unique skills not covered in the classroom; especially information-finding, communication, and technology skills essential for students in the 21st century (Wisconsin, Smith, 2006).
- ◆ Better performing schools tended to be those whose principals placed a higher-value on collaboration between the library media specialist and teachers in the design and delivery of instruction (Indiana, Lance, 2007).

This curriculum was designed using both the *National Standards for the 21st Century Learner* and the *MSDE Library Media State Curriculum Standards*. This curriculum facilitates the collaboration of library media specialists with classroom teachers to ensure that 21st century knowledge competencies are explicitly integrated and taught in elementary schools. Students are challenged to employ critical and problem-solving strategies, apply reading competencies for academic and personal pursuits, interact with information resources, and communicate new meaning and understanding.

BCPS library media specialists are postured to teach this curriculum. Graduate studies in collaboration and 21st century skills integration are the fundamental concepts in School Library Media certification and LIS initiatives in professional development of all library media specialists.

This curriculum outlines a consistent and rigorous standard of what elementary students should learn and library media specialists should teach during the scheduled 50-minute weekly library media periods. It represents a model of best practices in the integration of information

and technology literacy competencies with core content and the alignment of the award-winning BCPS Online Research Models with classroom learning. The goal in the instructional design and development of the Online Research Models is to end the meaningless bird, famous person, or country reports and avoid teaching skills in isolation. Through collaboration with curricular offices to align information and technology literacy competencies with core content, student research is driven by a high-level essential question that challenges students to create new meaning, not just copy, paste, or regurgitate. The attached chart shows the alignment of the Elementary Library Media Curriculum with core content and the Online Research Models.

Proposed Library Media Curriculum, Grades 1-5

Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

Grade	Reading/Language Arts	Science	Math	Social Studies	Library Information Services
1	<p>Theme 1: All Together Now Theme 2: Surprise! Theme 3: Let’s Look Around! Theme 4: Family and Friends Theme 5: Home Sweet Home Theme 6: Animal Adventures Theme 7: We Can Work It Out Theme 8: Our Earth Theme 9: Special Friends Theme 10: We Can Do It! Resources: http://www.eduplace.com/rdg/hmr06/1/</p>	<p>1st Quarter:</p> <ul style="list-style-type: none"> I Am a Scientist: Eco-Explorer ... (10 - 12 days) <p>2nd Quarter:</p> <ul style="list-style-type: none"> Observing and Describing ... (13 days) <p>3rd Quarter:</p> <ul style="list-style-type: none"> Observing the Earth, the Sky, and the Weather (30 – 35 days) <p>4th Quarter:</p> <ul style="list-style-type: none"> Observing Plants and Animals ... (11 – 17 days) <ul style="list-style-type: none"> Life Cycles 	<p>1st Quarter:</p> <p>Unit 1: Patterns and Readiness for Addition and Subtraction Unit 2: Understanding Addition and Subtraction</p> <p>2nd Quarter:</p> <p>Unit 3: Strategies for Addition Facts to 12 Unit 4: Strategies for Subtraction Facts to 12 Unit 5: Geometry and Fractions</p> <p>3rd Quarter:</p> <p>Unit 6: Counting to 100 Unit 7: Place Value, Data, and Graphs Unit 8: Addition and Subtraction Facts to 18</p> <p>4th Quarter:</p> <p>Unit 9: Money Unit 10: Measurement and Probability Unit 11: Time Unit 12: Exploring Two-Digit Addition and Subtraction</p>	<p>Unit 1: School Days Unit 2: At Home with My Family Unit 3: Living in a Community Unit 4: In and Around the Land Unit 5: My World Near and Far Resources: https://intranet.bcps.org/offices/elementary_social_studies/curriculum.html</p>	<p>Unit 1: School Days & All Together Now Standard 4.0; Indicators 1 & 2</p> <p>Unit 2: At Home with My Family</p> <ul style="list-style-type: none"> Tomie dePaola Author Study ... Curriculum Alignment Essential Question: How does Tomie DePaola's personal life help him think of ideas for his stories? Standard 4.0; Indicators 2 & 3 <p>Unit 3: Living in a Community Standard 1.0; Indicators 1 & 2</p> <p>Unit 4: Our Earth & Observing the Earth, the Sky, and the Weather</p> <ul style="list-style-type: none"> Clouds ... Curriculum Alignment Essential Question: How can clouds help us to predict the weather? Standard 1.0; Indicators 2, 3 & 4

Proposed Library Media Curriculum, Grades 1-5
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					<p>Unit 5: Animal Adventures Standard 1.0; Indicator 5 Standard 2.0; Indicator 1</p> <p>Unit 6: Observing Plants and Animals</p> <ul style="list-style-type: none">• Zany Zookeepers ... Curriculum Alignment Essential Question: How can external characteristics be used to classify organisms? OR• We All Grow and Change ... Curriculum Alignment Essential Question: How do the ways frogs grow and change compare and contrast with the ways people grow and change? <p>Standard 2.0; Indicators 3 & 4</p> <p>Unit 7: In and Around the Land Standard 2.0; Indicator 5</p> <p>Unit 8: My World Near and Far</p> <ul style="list-style-type: none">• Different, Yet the Same ... Curriculum Alignment Essential Question: How is my culture similar to or
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Proposed Library Media Curriculum, Grades 1-5

Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

					different from other cultures? Standard 3.0; Indicators 1 & 2
					Unit 9: We Can Do It! Standard 1.0; Indicators 3 & 4
2	<p>Theme 1: Silly Stories Theme 2: Nature Walk Theme 3: Around Town – Neighborhood and Community Theme 4: Amazing Animals Theme 5: Family Time Theme 6: Talent Show Resources: http://www.eduplace.com/rdg/hmr06/2/</p>	<p>1st Quarter:</p> <ul style="list-style-type: none"> ● Exploring Animals ... (15-20 days) <ul style="list-style-type: none"> ○ Classification <p>2nd Quarter:</p> <ul style="list-style-type: none"> ● Exploring Animals ... (15-20 days) <ul style="list-style-type: none"> ○ Habitats ○ Structure and Functions <p>3rd Quarter:</p> <ul style="list-style-type: none"> ● Exploring Forces ... (15-20 days) <ul style="list-style-type: none"> ○ Pushes and Pulls ○ Gravity ○ Vibrations <p>4th Quarter:</p> <ul style="list-style-type: none"> ● Skeeters ... (10-12 days) 	<p>1st Quarter: Unit 1: Understanding Addition and Subtraction Unit 2: Fact Strategies for Addition and Subtraction 2nd Quarter: Unit 3: Place Value to 100 and Money Unit 4: Mental Math: Addition and Subtraction Unit 5: Two-Digit Addition 3rd Quarter: Unit 6: Two-Digit Subtraction Unit 7: Geometry and Fractions Unit 8: Time, Data, and Graphs 4th Quarter: Unit 9: Measurement and Probability Unit 10: Numbers to 1000 Unit 11: Understanding Multiplication and Division</p>	<p>Unit 1: Geography of Neighborhoods and Communities Unit 2: Economics in the Community Unit 3: Citizenship in the Community Unit 4: Communities in Different Times Resources: https://intranet.bcps.org/offices/elementary_social_studies/curriculum.html</p>	<p>Unit 1: Silly Stories and Early Chapter Books Standard 4.0; Indicators 1 & 2</p> <p>Unit 2: Nature Walk Standard 4.0; Indicators 2 & 3</p> <p>Unit 3: Around Town – Neighborhood and Community & Geography of Neighborhoods and Communities Standard 1.0; Indicators 1 & 2</p> <p>Unit 4: Amazing Animals</p> <ul style="list-style-type: none"> ● The New Zoo...Curriculum Alignment Essential Question: What information does the Zoo Director need to decide which animals should be included in the new zoo? <p>Standard 1.0; Indicators 2, 3 & 4</p> <p>Unit 5: Exploring Animals</p>

Proposed Library Media Curriculum, Grades 1-5
Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

					<p>Choose one of the following ORMs:</p> <ul style="list-style-type: none"> • Happy Habitats ... Curriculum Alignment Essential Question: How does an animal's habitat affect its survival? • Hide and Seek ... Curriculum Alignment Essential Question: How does an animal use camouflage to survive? <p>Standard 1.0; Indicator 5 Standard 2.0; Indicator 1</p> <p>Unit 6: Time, Data, and Graphs Standard 2.0; Indicators 3 & 4</p> <p>Unit 7: Communities in Different Times Standard 2.0; Indicator 5</p> <p>Unit 8: Exploring Forces Standard 3.0; Indicators 1 & 2</p> <p>Unit 9: Skeeters</p> <ul style="list-style-type: none"> • Skeeterville GT... Curriculum Alignment Essential Question: How do mosquitoes survive in
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Proposed Library Media Curriculum, Grades 1-5

Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

					<p>their habitat? How do they interact with other organisms?</p> <p>Standard 1.0; Indicators 3 & 4</p>
3	<p>Theme 1: Off to Adventure! Theme 2: Celebrating Traditions Theme 3: Incredible Stories Theme 4: Animal Habitats Theme 5: Voyagers Theme 6: Smart Solutions Resources: http://www.eduplace.com/rdg/hmr06/3/</p>	<p>1st Quarter:</p> <ul style="list-style-type: none"> Discovering Earth ... (12-15 days) Discovering Matter ... (12-15 days) <p>2nd Quarter:</p> <ul style="list-style-type: none"> Eco-Detectives ... (10-12 days) Discovering Interactions: Human and Nature ... (12-15 days) <ul style="list-style-type: none"> Human Impact <p>3rd Quarter:</p> <ul style="list-style-type: none"> Discovering Energy ... (12-15 days) Safe Racer Challenge ... (12-15 days) <p>4th Quarter:</p> <ul style="list-style-type: none"> Starlab Unit (Flexible schedule ... only in schools scheduled to host Starlab) 	<p>1st Quarter:</p> <p>Unit 1: Place Value, Number Patterns, and Money Unit 2: Algebra, Addition, and Subtraction Number Sense</p> <p>2nd Quarter:</p> <p>Unit 3: Adding and Subtracting Unit 4: Time, Data, and Graphs Unit 5: Multiplication Concepts and Facts</p> <p>3rd Quarter:</p> <p>Unit 6: Multiplication Facts, Repeating Patterns, and Growing Patterns Unit 7: Division Concepts and Facts Unit 8: Geometry and Measurement Unit 9: Fractions, Measurement, and Probability</p> <p>4th Quarter:</p> <p>Unit 10: Decimals Unit 11: Multiplying and Dividing Greater Numbers Unit 12: Fractions and</p>	<p>Unit 1: What is a Community? Unit 2: Economics and Me Unit 3: Where People Start Communities Unit 4: Living Together in a Community, State, and Nation Unit 5: Many People of a Community Unit 6: Communities Over Time Resources: https://intranet.bcps.org/offices/elemental_social_studies/curriculum.html</p>	<p>Unit 1: Off to Adventure! Chapter books Standard 4.0; Indicators 1 & 2</p> <p>Unit 2: Incredible Stories</p> <ul style="list-style-type: none"> Booktalk! Intermediate Reading Curriculum Alignment Essential Question: How do I get a young reader hooked on a book? Standard 4.0; Indicators 2 & 3 <p>Unit 3: Discovering Earth</p> <ul style="list-style-type: none"> It's a Bird, It's a Plane, It's a Meteor! ... Curriculum Alignment Essential Question: How does Earth's relationship to the sun impact weather and time on Earth? Standard 1.0; Indicators 1 & 2 <p>Unit 4: Where People Start Communities</p>

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			Measurement		<p>Standard 1.0; Indicators 2, 3 & 4</p> <p>Unit 5: Living Together in a Community, State, and Nation Standard 1.0; Indicator 5 Standard 2.0; Indicator 1</p> <p>Unit 6: Celebrating Traditions Standard 2.0; Indicators 3 & 4</p> <p>Unit 7: Discovering Energy Standard 2.0; Indicator 5</p> <p>Unit 8: Safe Racer Challenge Standard 3.0; Indicators 1 & 2</p> <p>Unit 9: Eco-Detectives</p> <ul style="list-style-type: none"> • <u>Eco-Detectives Curriculum Alignment</u> Essential Question: How can understanding what happens to dead plants and animals help us solve the problem of too much garbage? <p>Standard 1.0; Indicators 3 & 4</p>
4	<p>Theme 1: Journeys Theme 2: American Stories Theme 3: That’s Amazing! Theme 4: Problem Solvers</p>	<p>1st Quarter:</p> <ul style="list-style-type: none"> • Taking a Closer Look at Space ... (12-15 days) 	<p>1st Quarter:</p> <p>Unit 1: Place Value and Money Unit 2: Adding and</p>	<p>Unit 1: Our Country’s Geography Unit 2: The Earliest Americans Unit 3: A Time of Exploration Unit 4: European Settlement</p>	<p>Unit 1: Journeys Standard 4.0; Indicators 1 & 2</p> <p>Unit 2: American Stories</p>

Proposed Library Media Curriculum, Grades 1-5

Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

	<p>Theme 5: Heroes Theme 6: Nature – Friend and Foe Resources: http://www.eduplace.com/rdg/hmr06/4/</p>	<p>2nd Quarter:</p> <ul style="list-style-type: none"> Fossil Detectives ... (10 - 12 days) Investigating Chemistry ... (12-15 days) <ul style="list-style-type: none"> Matter <p>3rd Quarter:</p> <ul style="list-style-type: none"> Too Hot To Handle ... (12-15 days) <p>4th Quarter:</p> <ul style="list-style-type: none"> Eco-Scouts... (10-12 days) Electrifying Science ... (12-15 days) 	<p>Subtracting Whole Numbers and Money 2nd Quarter: Unit 3: Multiplication and Division Concepts and Facts Unit 4: Time, Data, and Graphs Unit 5: Multiplying by One-Digit Numbers Unit 6: Dividing 3rd Quarter: Unit 7: Geometry and Measurement Unit 8: Fraction Concepts Unit 9: Probability 4th Quarter: Unit 10: Fraction Operations and Customary Measurement Unit 11: Decimals and Metric Measurement Unit 12: Multiplying by Two-Digit Numbers</p>	<p>Resources: https://intranet.bcps.org/offices/elementary_social_studies/curriculum.html</p>	<p>Standard 4.0; Indicators 2 & 3 Unit 3: Our Country’s Geography Standard 1.0; Indicators 1 & 2</p> <p>Unit 4: The Earliest Americans</p> <ul style="list-style-type: none"> Native to Maryland ... Curriculum Alignment Essential Question: How did the natural habitat help to shape the political, economic, and social characteristics of Native American tribes in Maryland? <p>Standard 1.0; Indicators 2, 3 & 4</p> <p>Unit 5: A Time for Exploration</p> <ul style="list-style-type: none"> Back to the Age of Exploration ... Curriculum Alignment Essential Question: Which explorer or conqueror had the greatest impact on North American history? <p>Standard 1.0; Indicator 5 Standard 2.0; Indicator 1</p> <p>Unit 6: Fossil Detectives Standard 2.0; Indicators 3 & 4</p>
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Alignment of the Elementary Library Media Curriculum with Core Content and the Online Research Models

					<p>Unit 7: Black-eyed Susan Standard 2.0; Indicator 5</p> <p>Unit 8: Nature – Friend or Foe Standard 3.0; Indicators 1 & 2</p> <p>Unit 9: Eco-Scouts</p> <ul style="list-style-type: none">• <u>Schoolyard Habitat... Curriculum Alignment</u> Essential Question: How can a schoolyard provide the living, non-living, and once-living factors necessary for the survival of a variety of native species? <p>Standard 1.0; Indicators 3 & 4</p>
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<p>5</p>	<p>Theme 1: Nature’s Fury Theme 2: Give It All You’ve Got Theme 3: Voices of the Revolution Theme 4: Person to Person Theme 5: One Land, Many Trails Theme 6: Animal Encounters Resources: http://www.eduplace.com/rdg/hmr06/5/</p>	<p><u>1st Quarter:</u></p> <ul style="list-style-type: none"> Investigating Microscopic Organisms ...Topic 1 <ul style="list-style-type: none"> Observing Cells ... (9 days) <p><u>2nd Quarter:</u></p> <ul style="list-style-type: none"> Pendulums Swing As Pendulums As Pendulums Do! ... (12-15 days) Investigating Energy_... Topic 2 <ul style="list-style-type: none"> Force and Motion ... (7 days) <p><u>3rd Quarter:</u></p> <ul style="list-style-type: none"> Weather The Weather ... (12-15 days) Investigating Earth Changes ... Rocks and Minerals (12-15 days) <p><u>4th Quarter:</u></p> <ul style="list-style-type: none"> Eco-Trekkers ... (10-12 days) Flexible schedule 	<p><u>1st Quarter:</u> Unit 1: Place Value, Adding, and Subtracting Unit 2: Multiplying Whole Numbers and Decimals</p> <p><u>2nd Quarter:</u> Unit 3: Dividing with One-Digit Divisors Unit 4: Data, Graphs, and Probability Unit 5: Geometry</p> <p><u>3rd Quarter:</u> Unit 6: Fraction Concepts Unit 7: Fraction Operations Unit 8: Perimeter and Area Unit 9: Measurement</p> <p><u>4th Quarter:</u> Unit 10: Dividing with Two-Digit Divisors Unit 11: Algebra Unit 12: Ratio, Proportion, and Percent</p>	<p>Unit 1: Colonial Regions 1700 – 1765 Unit 2: Revolution Unit 3: New Government Resources: https://intranet.bcps.org/offices/elementary_social_studies/curriculum.html</p>	<p>Unit 1: Nature’s Fury Standard 4.0; Indicators 1 & 2</p> <p>Unit 2: Voices of the Revolution Standard 4.0; Indicators 2 & 3</p> <p>Unit 3: Revolution Standard 1.0; Indicators 1 & 2</p> <p>Unit 4: New Government Standard 1.0; Indicators 2, 3 & 4</p> <p>Unit 5: Investigating Microscopic Organisms</p> <ul style="list-style-type: none"> The City Inside a Cell (GT) ... Curriculum Alignment Essential Question: How could a single cell be a metaphor for an entire city? <p>Standard 1.0; Indicator 5 Standard 2.0; Indicator 1</p> <p>Unit 6: Investigating Energy</p> <ul style="list-style-type: none"> Project Energy ... Curriculum Alignment Essential Question: How will the results of my energy experiment help me
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Proposed Library Media Curriculum, Grades 1-5
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					<p>to understand the world? Standard 2.0; Indicators 3 & 4</p> <p>Unit 7: Black-eyed Susan Standard 2.0; Indicator 5</p> <p>Unit 8: Animal Encounters Standard 3.0; Indicators 1 & 2</p> <p>Unit 9: Eco-Trekkers</p> <ul style="list-style-type: none">• Hands on Habitat ... Curriculum Alignment <p>Essential Question: How do individuals and groups of organisms interact with each other and their environment? Are the interactions beneficial or harmful to the environment?</p> <p>Standard 1.0; Indicators 3 & 4</p>
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Proposed Pilot Schools for Library Media Curriculum Grades 1-5

Geographic Area	Zone	2009 Pilot Schools	2010 Priority School	CORE Team Priority School	School Improvement Status	Local Attention	Title I	May be eligible for Title I SES in 2011-12	Comments
Central	2	Hampton ES							
	2	Lutherville ES							
	3	Rodger's Forge ES							
	3	Timonium ES							
Northeast	1	Fullerton ES							
	2	Harford Hills ES							
	2	Orems ES							
	2	Martin Boulevard ES							
	3	Victory Villa							
Northwest	1	Chatsworth School							

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	2	Owings Mills ES							
	3	Reisterstown ES		Yes		Yes			
	3	Wellwood International							
Southeast	1	Colgate ES		Yes		Yes	Yes		
	1	Deep Creek ES							
	2	Norwood ES							
Southwest	1	Arbutus ES							
	1	Catonsville ES							
	1	Edmondson Heights ES		Yes		Yes			
	3	Woodbridge ES							