

## West Virginia *math4life* Middle and Secondary-focused Supports

WVDE Division of Teaching and Learning

Dr Jan Barth, Assistant State Superintendent, [jbarth@k12.wv.us](mailto:jbarth@k12.wv.us)

### West Virginia's *math4life* Middle and Secondary-focused Professional Learning Supports for Districts and Schools

Timeline	Project	Contact
Fall, Winter, Spring, 2018-2019	<b>Math I WV Learns Courses.</b> WVLeans provides three Math I courses for educators with Grades 5-9 Math certification. Each e-learning course is 7 weeks in length, and is available to WV educators who want to extend certification through Math I. Free of charge. Can be used for salary advancement, certificate renewal and/or Math I authorization.	Donna Landin: <a href="mailto:dlandin@k12.wv.us">dlandin@k12.wv.us</a> and Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>
Fall 2018	<b>Grades 5/6 Math Cadres.</b> This cadre of WV fifth and sixth grade educators will utilize the Lesson Study process to elevate mathematics success and achievement for fifth and sixth grade students. Free of charge. Travel costs may be associated. Math coaches will be invited and plans will be developed to support lesson study.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> and Teresa Hammond: <a href="mailto:thammond@k12.wv.us">thammond@k12.wv.us</a>
	<b>Grades 6-12 Math Academy Follow Ups.</b> This series of five face-to-face meetings serves as the sustainability component of the Summer 2018 Math Academies (held in conjunction with the 2018 WV Summit for Ed. Excellence). Free of charge. WVDE Office of Special Education has granted funds to counties to assist with educators' travel to follow ups. Math coaches are invited and plans will be developed to support conceptual understanding of mathematics.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> and Teresa Hammond: <a href="mailto:thammond@k12.wv.us">thammond@k12.wv.us</a>
	<b>Math Quarterly Meetings.</b> These meetings provide an environment in which high school mathematics teachers learn to problem solve in a learner-centered environment, actively engaging in discourse with peers around the mathematics, integrate the eight Mathematical Habits of Mind into daily instruction and increase student engagement with mathematics. Free of charge. Math coaches are invited and plans will be developed to support mathematical discourse.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> and Joseph Mastracci <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a>
	<b>Math4life Educator Documents, Frameworks for Administrators and Content and Timelines Professional Learning for Grades 6-12 Educators.</b> Resources available and introduced to math coaches and teachers via the <i>math4life</i> website.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> and Joseph Mastracci <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a>
Winter-Spring 2019	<b>Math4life Educator Documents, Frameworks for Administrators and Content and Timelines Professional Learning for Grades 6-12 Educators.</b> This professional learning will assist educators as they gain an understanding of the role and purposes the WV Mathematics Standards grade-level or course-specific Educators' Guides for Mathematics can play to assist with high-quality classroom instruction. Free of charge. This professional development will be provided through online mini-modules, attendance at the WVCTM conference, during all statewide math meetings and WVLeans courses.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> , and Joseph Mastracci <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a>
	<b>West Ed Resource Vetting.</b> West Ed will make available reviews of the programs identified by WV districts (via a survey provided in August 2018) that focus on mathematics achievement. West Ed will determine each program's level of impact.	Cindy Burke: <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a> , Joseph Mastracci <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a> and Teresa Hammond: <a href="mailto:thammond@k12.wv.us">thammond@k12.wv.us</a>



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September 2018

	<p><b>WVCTM Conference.</b> <i>math4life</i> sessions will be featured during the WVCTM conference. Sessions will include topics specific to teachers, administrators and math coaches and other county CILs. Content of sessions will address the <i>math4life</i> Educator Documents, Frameworks for Administrators and Content and Timelines Professional Learning for Grades 6-12 Educators, other <i>math4life</i> resources (i.e. webpage), coaching, data analysis.</p>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>,                      Joseph Mastracci  <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a>                      Teresa Hammond:  <a href="mailto:thammond@k12.wv.us">thammond@k12.wv.us</a></p>
	<p><b>Online Professional Learning Community Series: Balancing Conceptual Development and Procedural Fluency in Elementary Mathematics.</b> This online PLC series (4 meetings total; will be recorded and available on the website) will assist elementary educators as they find the appropriate, standards-focused balance between teaching conceptually versus procedurally. Free of charge.</p>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>                      and                      Teresa Hammond:  <a href="mailto:thammond@k12.wv.us">thammond@k12.wv.us</a></p>
	<p><b>A Family's Guide to Middle School Mathematics Brochure.</b> This brochure will be available in hard copy and online for families of students entering grades 6-8. Included in this brochure will be family-friendly language regarding ways to engage and assist middle school students with grades 6-8 mathematics. Free of charge.</p>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>                      and                      Joseph Mastracci  <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a></p>
	<p><b>Grades 7/8 Math Cadres.</b> This cadre of WV seventh and eighth grade educators will utilize the Lesson Study process to elevate mathematics success and achievement for seventh and eighth grade students. Free of charge. Travel costs may be associated. Math coaches will be invited and plans will be developed to support lesson study.</p>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>                      and                      Joseph Mastracci  <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a></p>
Summer 2019	<p><b>Grades 6-12 Mathematics-Focused Strands During the 2019 WV Summit for Educational Excellence.</b> Strands to support educators of children in Grades 6-8 as well as Grades 9-1, will be available during the 2019 Summit, which is scheduled for July 22-26, 2019 in Charleston, WV.</p>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>                      and                      Joseph Mastracci  <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a></p>
Summer 2019 and beyond	<p><b>Additional capacity building, mathematics-focused professional learning for Grades 6-12 as requested by districts.</b> Areas of focus include, but are not limited to, <b>by grade level or bands as developmentally appropriate:</b></p> <ul style="list-style-type: none"> <li>• Mathematical Habits of Mind:                         <ul style="list-style-type: none"> <li>• <i>MHM1. Make sense of problems and persevere in solving them.</i></li> <li>• <i>MHM2. Reason abstractly and quantitatively.</i></li> <li>• <i>MHM3. Construct viable arguments and critique the reasoning of others.</i></li> <li>• <i>MHM4. Model with mathematics.</i></li> <li>• <i>MHM5. Use appropriate tools strategically.</i></li> <li>• <i>MHM6. Attend to precision.</i></li> <li>• <i>MHM7. Look for and make use of structure.</i></li> <li>• <i>MHM8. Look for and express regularity in repeated reasoning.</i></li> </ul> </li> <li>• Thinking Skills</li> <li>• Mathematics Coaches</li> </ul>	<p>Cindy Burke:  <a href="mailto:caburke@k12.wv.us">caburke@k12.wv.us</a>                      and                      Joseph Mastracci  <a href="mailto:jmastracci@k12.wv.us">jmastracci@k12.wv.us</a></p>

